APPENDIX D
WELL, PROBE and CORE LOGS

REMEDIAL INVESTIGATION REPORT
ICS/NWC
SEATTLE, WASHINGTON

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MONITORING WELL LOGS
UPLAND ICS/NWC SITE

REMEDIAL INVESTIGATION REPORT
ICS/NWC
SEATTLE, WASHINGTON

Dalton, Olmsted & Fuglevand, Inc.

Key to Exploration Logs

Sample Descriptions

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:
Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL Density	Standard Penetration Resistance in Blows/Foot	SILT or CLAY Consistency	Standard Penetration Resistance in Blows/Foot	Approximate Shear Strength in TSF
Very loose	0 - 4	Very soft	0 - 2	<0.125
Loose	4 - 10	Soft	2 - 4	0.125 - 0.25
Medium dense	10 - 30	Medium stiff	4 - 8	0.25 - 0.5
Dense	30 - 50	Stiff	8 - 15	0.5 - 1.0
Very dense	>50	Very stiff	15 - 30	1.0 - 2.0
		Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture
Damp	Some perceptible moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture, probably above optimum

Minor Constituents

	Estimated Percentage
Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Legends

Sampling

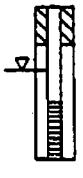
BORING SAMPLES

- Split Spoon
- Shelby Tube
- Cuttings
- Core Run
- * No Sample Recovery
- P Tube Pushed, Not Driven

TEST PIT SAMPLES

- Grab (Jar)
- Bag
- Shelby Tube

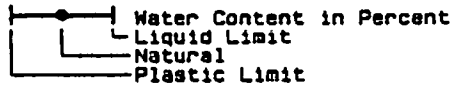
Ground Water Observations



- Surface Seal
- Ground Water Level on Date (ATD) At Time of Drilling
- Observation Well Tip or Slotted Section
- Ground Water Seepage (Test Pits)

Test Symbols

GS	Grain Size Classification
CN	Consolidation
TUU	Triaxial Unconsolidated Undrained
TCU	Triaxial Consolidated Undrained
TCD	Triaxial Consolidated Drained
QU	Unconfined Compression
DS	Direct Shear
K	Permeability
PP	Pocket Penetrometer Approximate Compressive Strength in TSF
TV	Torvane Approximate Shear Strength in TSF
CBR	California Bearing Ratio
MD	Moisture Density Relationship
AL	Atterberg Limits



J-1659-03 September 1987
HART-CROWSER & associates, inc.
Figure A-1

HC-81

Boring Log and Construction Data for Well B-1

Geologic Log

Depth in Feet

Ground Surface Elevation in Feet 93.8

0 – Loose, moist, gray, silty, gravelly, fine to coarse SAND. (FILL)

5 – Very dense, moist to wet, gray, silty, sandy GRAVEL with abundant WOOD material.

10 – Medium dense to very loose, wet, black, gravelly, silty to very silty, fine to coarse SAND with wood fibers and occasional shells. Slight oil sheen.

15

20 – Loose, wet, dark gray, slightly silty, fine SAND with occasional gravel and shells.

25 – Bottom of Boring at 25.0 Feet. Completed 5/5/86.

30

35

40

45

50

Sample N

Composited for Chemical Analysis

S-1	4
S-2	50/6"
S-3	4
S-4	10
S-5	4
S-6	1
S-7	4
S-8	8
S-9	8

Well Design

Top Casing Relative Elevation in Feet 95.3 (B-3=100.0)

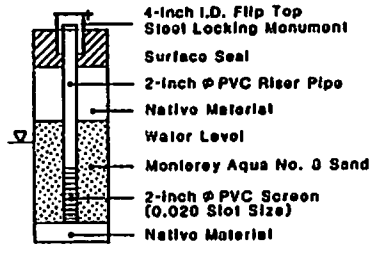
Casing Stickup in Feet 1.5

■ Headspace Volatile Hydrocarbon Reading in ppm

1 10 100

5/14/86

ATD



NOTES:

1. Soil descriptions are interpretive and actual changes may be gradual.
2. Water Level is for date indicated and may vary with time of year. ATD: At time of drilling
3. Headspace Volatile Hydrocarbon Concentration as measured in jar samples using an H-Nu PI-101 Photoionization Meter with a 10.2 eV Lamp.

⊠ 2-inch O.D. Split Spoon Sample Driven by 140-lb. Hammer 30-inch Fall

N Standard Penetration Resistance, Blows per Foot

J-1659 May 1986

HART-CROWSER & associates, inc.

Figure A-2

Boring Log and Construction Data for Well B-1A

HC-91A

Geologic Log

Depth in Feet

Ground Surface Elevation in Feet 93.8

0 – (Loose), damp to moist, brown to gray, silty, gravelly SAND and CONCRETE DEBRIS.

5 – (Medium dense), wet, gray, silty, sandy GRAVEL with trace wood.

10 – (Medium dense to loose), wet, gray to black, gravelly, silty, fine to coarse SAND with some wood fibers, with slight oil-like sheen and hydrocarbon-like odor.

15

20 – Bottom of Boring at 20.0 Feet.
Completed 9/19/86.

Note: Pulled auger, backfilled with bentonite quick gel powder.

25

30

35

Well Design

Top Casing Relative Elevation in Feet

Casing Stickup in Feet

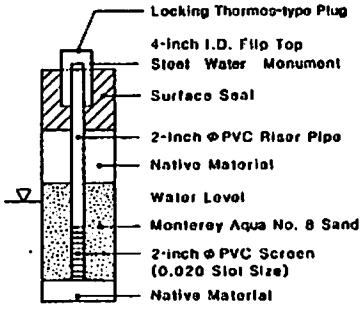
Sample	Blows per Foot
S-1	24
S-2	14
S-3	14
S-4	21
S-5	14
S-6	11
S-7	4
S-8	10

ATD

■ Headspace Volatile Hydrocarbon Reading in ppm

1 10 100

0 5 10 15 20 25 30 35



NOTES:

1. Soil descriptions are interpretive and actual changes may be gradual.
2. Water Level is for date indicated and may vary with time of year. ATD: At time of drilling
3. Headspace Volatile Hydrocarbon Concentration as measured in jar samples using an H-Nu PI-101 Photoionization Meter with a 10.2 eV Lamp.

⊠ 2-1/2 Inch I.D. Split Spoon Sample Driven by 140-lb. Hammer, 30-inch Fall

J-1659 September 1986

HART-CROWSER & associates, inc.

Figure A-3

HC-B2

Boring Log and Construction Data for Well B-2

Geologic Log

Depth in Feet

Ground Surface Elevation in Feet 94.4

0 – Loose to medium dense, wet to moist, brown to gray, gravelly, silty, fine to coarse SAND. (FILL)

5 – Turning black with slight hydrocarbon-like odor.

– Slight oil sheen present.

10 – Very loose, wet, black, slightly gravelly, silty to very silty, fine to coarse SAND with wood. Slight oil sheen present.

– Decomposed WOOD and charoal-like material.

15 – Loose, wet, dark gray, silty SAND with wood fiber. (FILL?)

20 – Very loose, wet, tan, very silty, fine SAND.

25 – Bottom of Boring at 25.0 Feet. Completed 5/5/86.

30

35

40

45

50

Sample N

Composited for Chemical Analysis

Sample	N
S-1	8
S-2	18
S-3	15
S-4	2
S-5	2
S-6	2
S-7	5
S-8	4
S-9	3

Well Design

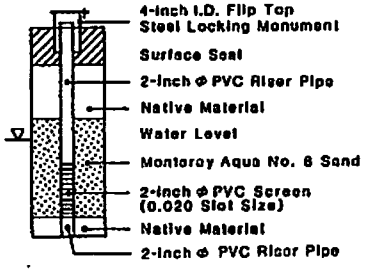
Top Casing Relative Elevation in Feet 95.4 (B-3=100.0)

Casing Stickup in Feet 1.0

■ Headspace Volatile Hydrocarbon Reading in ppm

1 10 100

5/14/86 ATD



NOTES:

1. Soil descriptions are interpretive and actual changes may be gradual.
2. Water Level is for date indicated and may vary with time of year. ATD: At time of drilling
3. Headspace Volatile Hydrocarbon Concentration as measured in jar samples using an H-Nu PI-101 Photoionization Meter with a 10.2 eV Lamp.

⊠ 2-inch O.D. Split Spoon Sample Driven by 140-lb. Hammer 30-inch Fall

N Standard Penetration Resistance, Blows per Foot

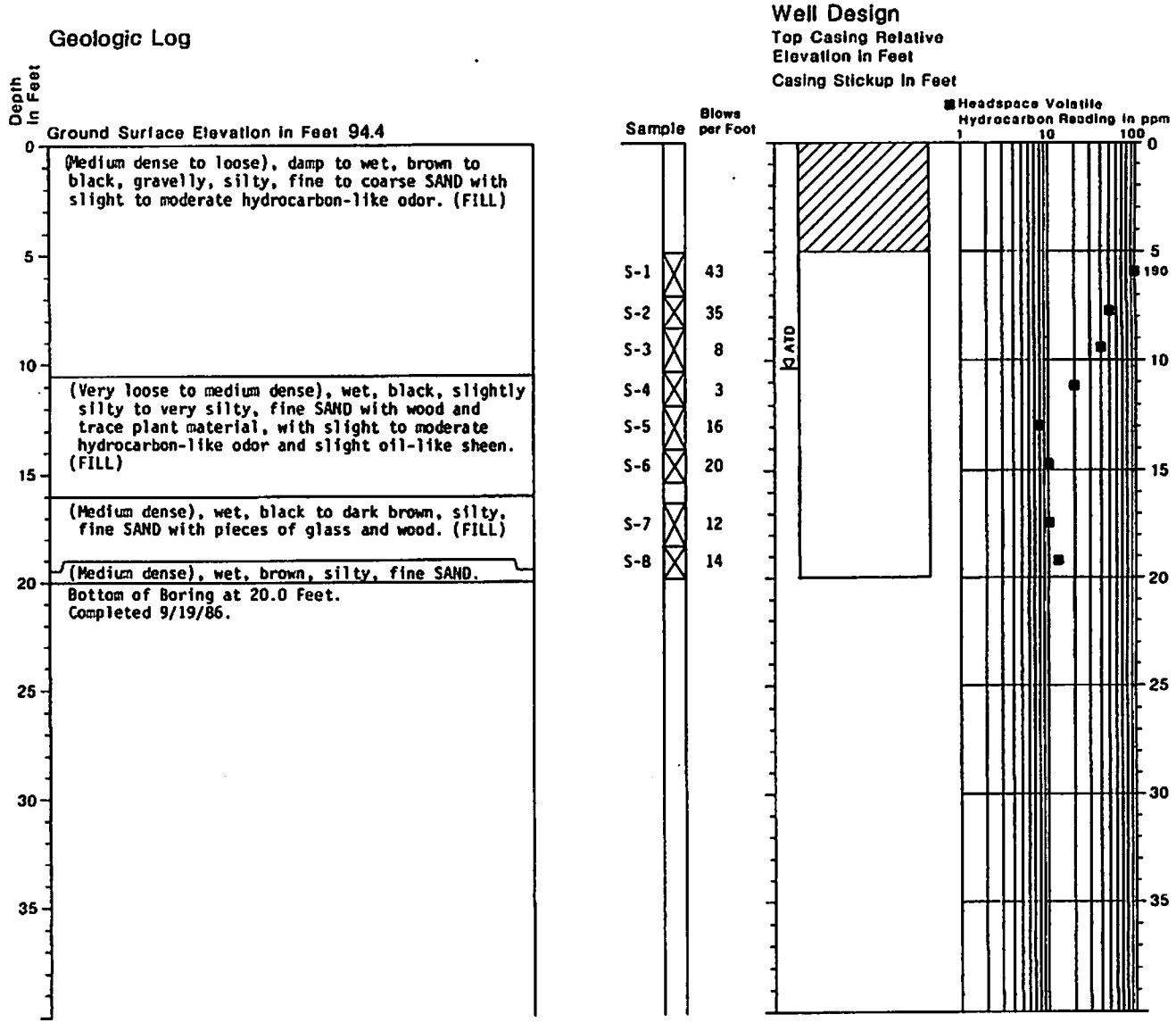
J-1659 May 1986

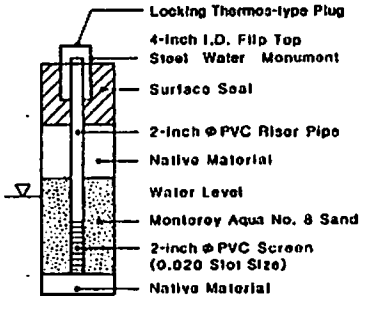
HART-CROWSER & associates, inc.

Figure A-4

Boring Log and Construction Data for Well B-2A

HC-B2A





NOTES:

1. Soil descriptions are interpretive and actual changes may be gradual.
2. Water Level is for date indicated and may vary with time of year.
   ATD: At time of drilling
3. Headspace Volatile Hydrocarbon Concentration as measured in jar samples using an H-Nu PI-101 Photoionization Meter with a 10.2 eV Lamp.

⊠ 2-1/2 inch I.D. Split Spoon Sample Driven by 140-lb. Hammer, 30-inch Fall

J-1659 September 1986

HART-CROWSER & associates, inc.

Figure A-5

Boring Log and Construction Data for Well B-3

HCB-3

Geologic Log

Depth in Feet

Ground Surface Elevation in Feet 99.0

0 – Medium dense to loose, moist to wet, brown to gray, very silty to silty, fine SAND with occasional gravel. (FILL)

5

Soft, wet, gray, clayey, very fine sandy SILT with wood and plant material.

10 – Abundant wood and plant material.

15 – Medium dense to dense, wet, gray, slightly silty, fine SAND.

20

25 – Bottom of Boring at 25.0 Feet. Completed 5/6/86.

30

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45

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Well Design

Top Casing Relative Elevation in Feet 100.0 (Arbitrary)

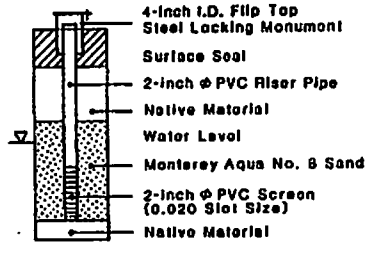
Casing Stickup in Feet 1.5

Sample	N
S-1	10
S-2	8
S-3	2
S-4	2
S-5	3
S-6	23
S-7	25
S-8	21
S-9	48

■ Headspace Volatile Hydrocarbon Reading in ppm (1, 10, 100)

5/14/86

ATD



NOTES:

1. Soil descriptions are interpretive and actual changes may be gradual.
2. Water Level is for date indicated and may vary with time of year.
   ATD: At time of drilling
3. Headspace Volatile Hydrocarbon Concentration as measured in jar samples using an H-Nu PI-101 Photoionization Meter with a 10.2 eV Lamp.

⊠ 2-inch O.D. Split Spoon Sample Driven by 140-lb. Hammer 30-inch Fall

N Standard Penetration Resistance, Blows per Foot

J-1659 May 1986

HART-CROWSER & associates, inc.

Figure A-6

Boring Log and Construction Data for Well B-4

HC-34

Geologic Log

Depth in Feet

Ground Surface Elevation in Feet 98.5

0 – (Medium dense), damp to moist, brown to gray, slightly silty, fine SAND.

10 – (Medium stiff), wet, gray to brownish gray, very sandy SILT with some 1/2 to 2-inch layers of black decomposed to brown decomposed grass-like plant material and sandy SILT.

15 – (Medium dense), wet, gray, slightly silty to clean, fine to medium SAND with trace grass-like plant material.

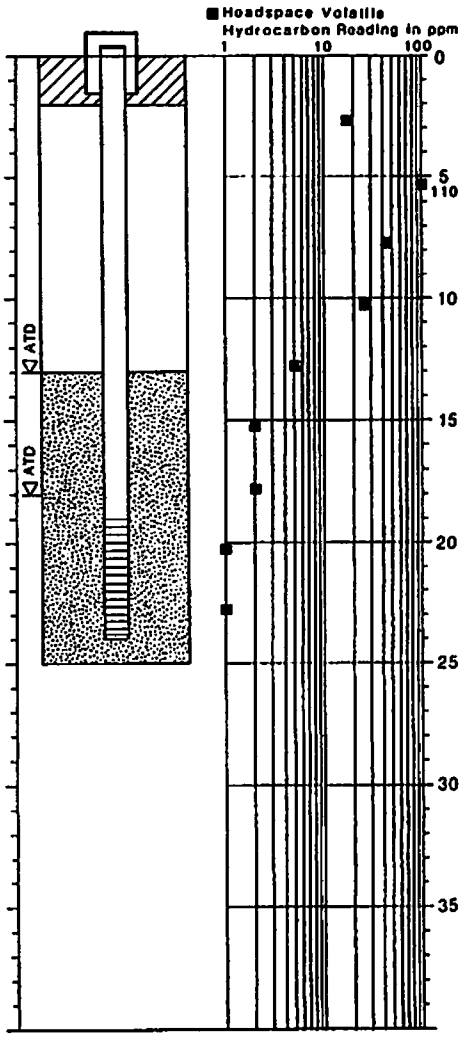
25 – Bottom of Boring at 25.0 Feet.
Completed 9/18/86.

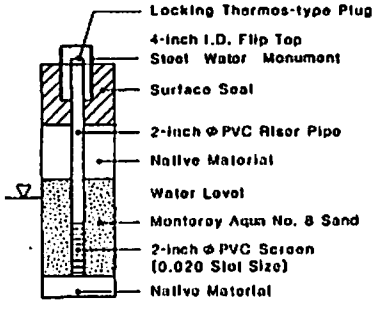
Well Design

Top Casing Relative Elevation in Feet 99.0

Casing Stickup in Feet 0.5

Sample	Blows per Foot
S-1	22
S-2	16
S-3	15
S-4	5
S-5	4
S-6	22
S-7	33
S-8	24
S-9	20





NOTES:

1. Soil descriptions are interpretive and actual changes may be gradual.
2. Water Level is for date indicated and may vary with time of year. ATD: At time of drilling
3. Headspace Volatile Hydrocarbon Concentration as measured in jar samples using an H-Nu PI-101 Photoionization Meter with a 10.2 eV Lamp.

⊠ 2-1/2 Inch I.D. Split Spoon Sample Driven by 140-lb. Hammer, 30-inch Fall

J-1659-03 September 1986

HART-CROWSER & associates, inc.

Figure A-7

Boring Log and Construction Data for Well B-5

HC35

Geologic Log

Depth in Feet

Ground Surface Elevation in Feet 94.8

0 – (Medium dense), damp, brown, silty, fine SAND with 1/2 to 4 inch wet, gray, very silty, fine SAND lenses.

5

10 – (Medium stiff), wet, gray, clayey, very sandy SILT with some slightly decomposed grass-like plants, roots and occasional pieces of wood.

15 – (Loose to medium dense), wet, brownish gray to gray, very silty to silty, fine SAND with 1/4 inch clay laminations with trace plant roots.

20 – (Medium dense to dense), wet, gray, silty to clean, fine to coarse SAND.

25 – Bottom of Boring at 24.0 Feet.
Completed 9/18/86.

30

35

Well Design

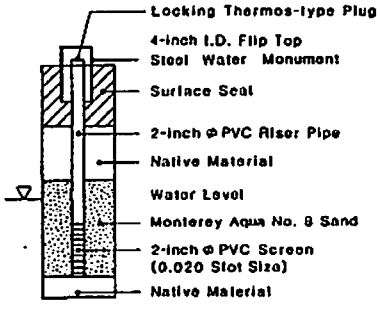
Top Casing Relative Elevation in Feet 95.3

Casing Stickup in Feet 0.5

Sample	Blows per Foot
S-1	21
S-2	13
S-3	4
S-4	6
S-5	6
S-6	10
S-7	21
S-8	20
S-9	42

Headspace Volatile Hydrocarbon Reading in ppm
1 10 100

0 5 10 15 20 25 30 35



NOTES:

1. Soil descriptions are interpretive and actual changes may be gradual.
2. Water Level is for date indicated and may vary with time of year. ATD: At time of drilling
3. Headspace Volatile Hydrocarbon Concentration as measured in jar samples using an H-Nu PI-101 Photoionization Meter with a 10.2 eV Lamp.

⊠ 2-1/2 inch I.D. Split Spoon Sample Driven by 140-lb. Hammer, 30-inch Fall

J-1659-03 September 1986

HART-CROWSER & associates, inc.

Figure A-8

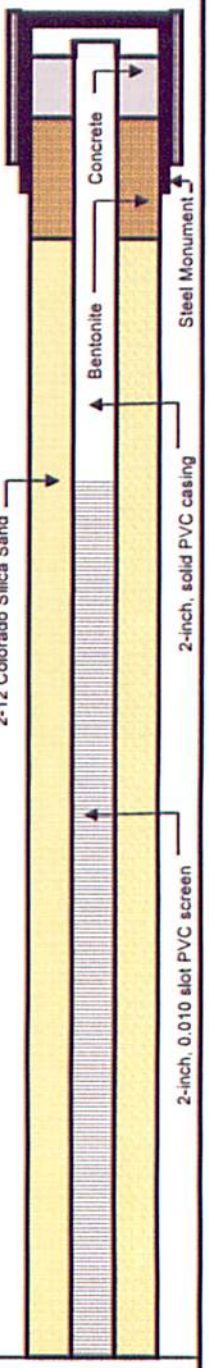
SOIL BORING LOG

BORING No: **MW-1**
PAGE 1 of 3

SA-MW1

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 25.5	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.54' TOC 12.57' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION
						1	Concrete	16 inches of Concrete
--	4.7	4 4 2				2 3	SM	Gray and brown silty fine to medium SAND with occassional coarse sand and fine gravel (dry, very loose), slight sheen, slight odor.
MW-1-5	131	9 11 23				4 5 6	CL	Black silty CLAY with medium to coarse sand and fine gravel (moist, Stiff), heavy sheen, strong odor.
--	202	14 20 29				7 8 9	ML	Grades to a moderate sheen. Gray Sand SILT (moist, very stiff), slight sheen, strong odor.
--	50.1	32 30 39				10 11	SM/ ML	Gray silty fine SAND (moist, very dense), slight sheen, slight odor.



Well Completion Details

SOIL BORING LOG

BORING No: **MW-1** SA-MW1

PAGE 2 of 3

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 25.5	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.54' TOC 12.57' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
							SM/ ML	Gray silty fine SAND (moist, very dense), slight sheen, slight odor.	
MW-1-12.5	52.4	39 50/ 5"	▽			12 13	ML	Gray fine sandy SILT, trace clay (wet, hard), slight sheen, slight odor.	
--	50.8	22 29 26				14 15 16		As above, grading to no clay and increasing sand, no odor.	2-12 Colorado Silica Sand
--	2.6	30				17 18 19	SM	Dark gray silty fine SAND (moist, medium dense), no sheen, no odor.	2-inch, 0.010 slot PVC screen
--	6.5	27 50/4"				20 21 22	SP	Gray fine SAND with trace silt (wet, very dense), no sheen, no odor.	

SAIC

SOIL BORING LOG

BORING No: **MW-1**
PAGE 3 of 3

SA-MW1

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 25.5	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.54' TOC 12.57' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
--	55.6	50/5"				23	SP	Gray fine SAND with trace silt (wet, very dense), no sheen, no odor.	2-12 Colorado Silica Sand; 2-inch, 0.010 slot PVC screen
--	0	50/6"				24 25		Same as above.	
						26 27 28 29 30 31 32 33			

SOIL BORING LOG

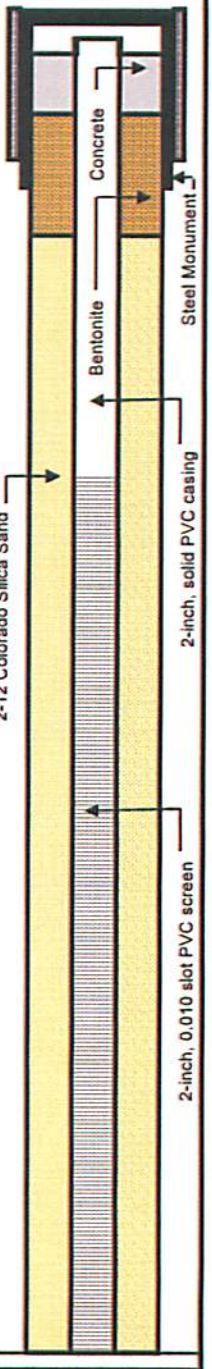
BORING No: **MW-2**
PAGE 1 of 3

SA-MW2

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 26.5	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.01' TOC 11.97' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION
						0	Con	5 inches of Concrete
						1		
						2		Slight petroleum odor at 2 feet.
--	37.2	47 50/6"				3		Black silty GRAVEL with sand (moist, very dense), slight sheen, slight odor.
						4		
--	71.1	50/2"				5	GM	Same as above, grades to with wood debris, little sand and occassional cobbles (moist, very dense), heavy sheen, strong odor.
						6		
						7		
MW-2-7.5	101	50/6"				8		Dark brown and black silty GRAVEL: with shredded wood pieces and organics (wet, very dense), heavy sheen, strong odor.
						9		
MW-2-10	45.1	11 11 12				10	SM	Dark Brown silty fine to coarse SAND with occassional fine gravel. Top 6 inches is a chunk of wood (wet, loose), heavy sheen, strong odor.
						11		

Well Completion Details



SOIL BORING LOG

BORING No: **MW-2** SA-MW2

PAGE 2 of 3

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 26.5	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.01' TOC 11.97' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
--	102	12 12 17				12 13 14	SM	Black silty fine to coarse SAND with gravel and organics (wet, medium dense), slight sheen, slight odor.	
MW-2-15 FD-1-042407	50.8	8 8 10				15 16 17		As above, grading to (wet, loose), heavy sheen, strong odor.	2-12 Colorado Silica Sand
--	212	8 9 14				18 19	CL	Black silty CLAY (wet/moist, stiff), no sheen, no odor.	2-inch, 0.010 slot PVC screen
--	--	17 20 22				20 21 22	SM	Black silty fine SAND (wet, dense), no sheen, no odor.	

SOIL BORING LOG

BORING No: **MW-2** SA-MW2

PAGE 3 of 3

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 26.5	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.01' TOC 11.97' NGVD88

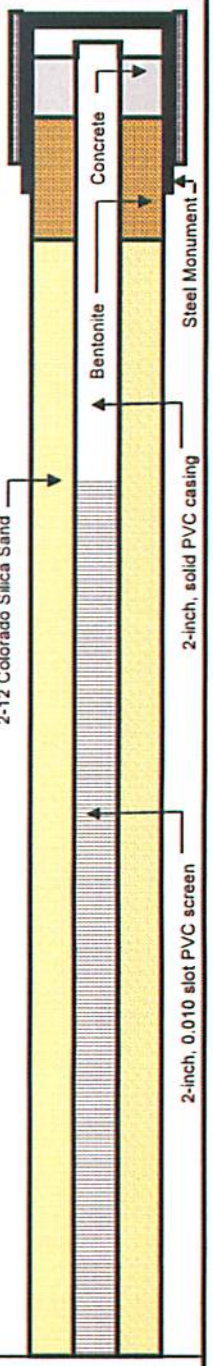
Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
--	1.7	7 10 10				23 24	SP/SM	Black silty fine sand with shredded wood pieces (wet, medium dense), slight sheen, slight odor.	2-12 Colorado Silica Sand; 2-inch, 0.010 slot PVC screen
--	2.9	15 20 22				25 26		Same as above grading to no sheen and some organics.	
						27 28 29 30 31 32 33			

SOIL BORING LOG

BORING No: **MW-3**
PAGE 1 of 3
SA-MW3

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 26	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.61' TOC 12.57' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION
						0	Con	5 inches of Concrete
--	0.6	6 7 7				1 2 3 4	SM	Brown silty fine to medium SAND with occassional fine gravel grading to silty fine sand (moist, loose), no sheen, no odor.
--	0.3	11 7 10				5 6 7		Same as above, grading to trace of clay and increasing silt.
--	101	50/6"				8	SM/ ML	Brown silty fine SAND/fine sandy SILT (moist, loose/stiff), no sheen, no odor.
MW-3-10	0.4	3 5 5	▽			9 10 11		Same as above, grading to orange mottling (wet, very loose/soft).



SOIL BORING LOG

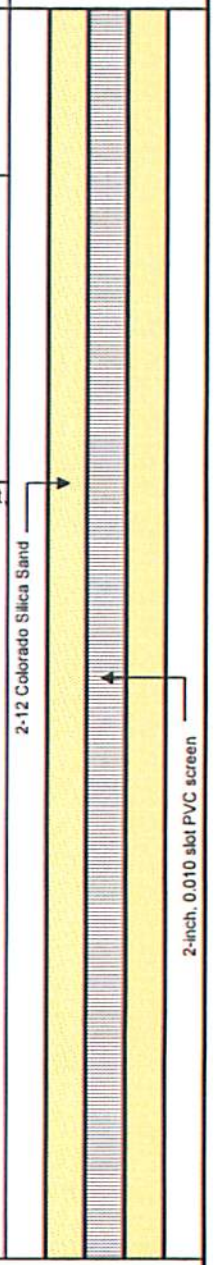
BORING No: **MW-3**
PAGE 2 of 3

SA-MW3

PROJECT: EAA-2	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 2-inch
LOCATION: 7152 1st Ave S, Seattle, WA	DRILL METHOD: Concrete Core/Hollow-stem Auger	WELL DEPTH: 24 feet
CLIENT: Department of Ecology	SAMPLE METHOD: Split Spoon	WELL CASING: 2-inch PVC, Schedule 40
DATE: 04/23/07	HOLE DIAMETER: 8.25 inches	WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
LOGGED BY: Tina King	HOLE DEPTH: 26	FILTER PACK: 2-12 Colorado Silica Sand
		CASING ELEVATION: 12.61' TOC 12.57' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION
						12	SM/ ML	Same as above.
--	0.4	4 7 9				13	SM	Brown sitly fine SAND (wet, dense), no sheen , no odor.
						14		
--	0.9	10 10 15				15		Same as above.
						16		Brown sitly fine SAND with increasing fine sand (wet, dense), no sheen, no odor.
						17		
--	0.01	15 20 27				18	SP/S M	Same as above, grading to dark brown at 18.5 and medium dense.
						19		
--	7.1	50/6"				20		Grades to dark brown to black silty fine to medium sand (moist, very dense), no sheen, musty odor.
						21		
						22		

Well Completion Details



SAIC

SOIL BORING LOG

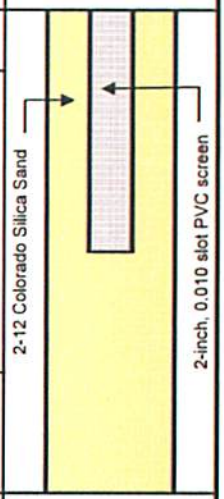
BORING No: **MW-3** SA-MW3

PROJECT: EAA-2
LOCATION: 7152 1st Ave S, Seattle, WA
CLIENT: Department of Ecology
DATE: 04/23/07
LOGGED BY: Tina King

DRILLER: Cascade Drilling, Inc.
DRILL METHOD: Concrete Core/Hollow-stem Auger
SAMPLE METHOD: Split Spoon
HOLE DIAMETER: 8.25 inches
HOLE DEPTH: 26

WELL DIAMETER: 2-inch
WELL DEPTH: 24 feet
WELL CASING: 2-inch PVC, Schedule 40
WELL SCREEN: 0.010-inch slot, 2-24 feet bgs
FILTER PACK: 2-12 Colorado Silica Sand
CASING ELEVATION: 12.61' TOC 12.57' NGVD88

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
							SP/SM	Same as above.	
--	1.7	7 10 10				23 24	SM	Dark Brown Silty fin SAND, occassional medium sand (wet, Medium dense), no sheen, no odor.	
--	0.4	32 50/6"				25 26	SP	Same as above grading to no sheen and some organics.	
						27 28 29 30 31 32 33			



DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW1**

Field Rep: D. Cooper | Location: N199991 E1270150 NAD83 | Ecology ID# BHS517
Drilling Co.: Cascade | Ground surface elevation: 14.05' NAVD88
Driller: Kasey Goble | Date Completed: 10/16/2012
Drill Type: Power Probe 9600 | Weather: Rain 60F
Size/Type Casing: 2.5" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
A	grab @ 4-5'	1.6	0-5	48	-	1315	0.4-4.5' Moist, bwn, F SAND, w/some silt, ns, no 4.5-5' Wet, gry, F SAND, w/trace organics, ns, no
B	grab @ 6.5-7.5'	1.2	5-10	60	-	1325	5-6.5' As above 6.5-7.5' Wet, mot gry-blk, F Sandy, SILT, ns, no 7.5-10' Sat, gry, F SAND, w/some silt, ns, no
C	grab @ 11-12'	0.2	10-15	40	-	1335	10-15' Sat, gry, F SAND, ns, no
			15-20	40	-		15-20' Sat, gry, silty, F SAND, ns, no
			20-25	60	-		20-25' As above

Bottom of boring @ 25.0'

MONITORING WELL DIAGRAM

Depth(ft.)

0 **SUMMARY LOG**

4" Concrete slab
Wet, brown to gray, Fine SAND
with some silt, trace organics

6.5

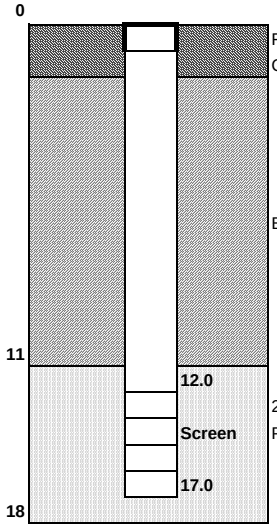
Wet, mottled gray-black, Fine sandy, SILT

7.5

Saturated, gray, Fine SAND
with silty zones

25

(Bottom of Boring)



MONITORING WELL INFORMATION

TOC Elevation: 13.74 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 12.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 12.0/17.0
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 11/18
Seal: Bentonite chip
(top/bot) 2/11
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

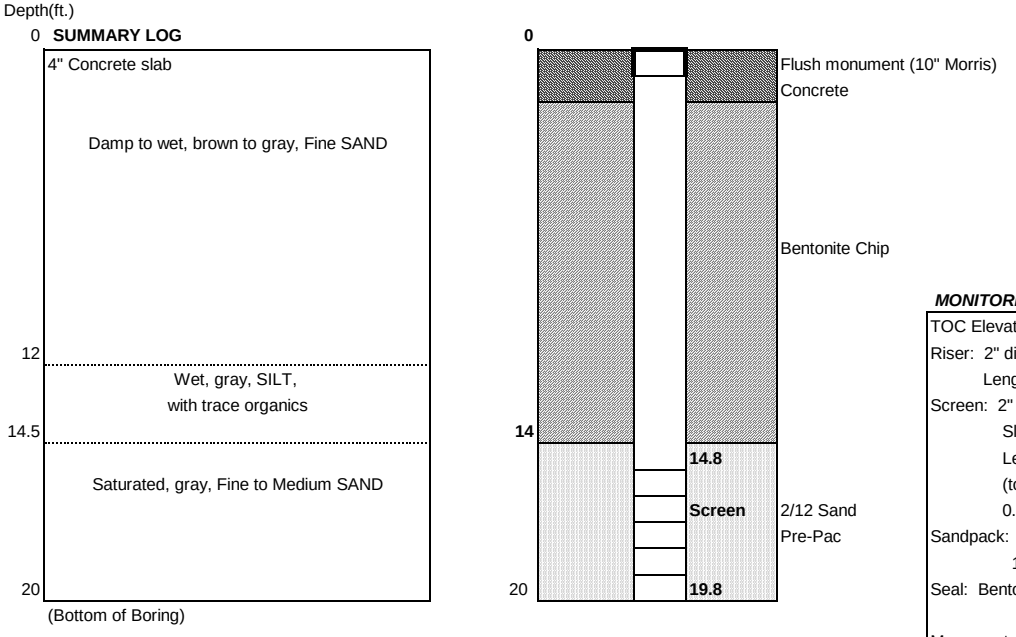
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW2**

Field Rep: D. Cooper | Location: N199928 E1269979 NAD83 | Ecology ID# BHS520
Drilling Co.: Cascade | Ground surface elevation: 17.12' NAVD88
Driller: Kasey Goble | Date Completed: 10/16/2012
Drill Type: Power Probe 9600 | Weather: Clear 60F
Size/Type Casing: 2.5" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
A	grab @ 2-3'	1.3	0-5	40	-	1120	0.4-5' Damp, bwn, F SAND, ns, no
B	grab @ 8-9'	1.2	5-10	60	-	1130	5-9' As above 9-10' Wet, bwn-gry, F SAND, w/oxidation banding, ns, no
C	grab @ 12-13'	1	10-15	60	-	1140	10-12' As above 12-14.5' Wet, gry, SILT, w/trace organics 13-14', ns, no 14.5-15' Sat, gry, F-M SAND, ns, no
D	grab @ 16-17'	0.3	15-20	60	-	1150	15-20' As above

Bottom of boring @ 20.0'

MONITORING WELL DIAGRAM



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL INFORMATION

TOC Elevation: 16.80 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 14.8'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 14.8/19.8
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 14/20
Seal: Bentonite chip
(top/bot) 2/14
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

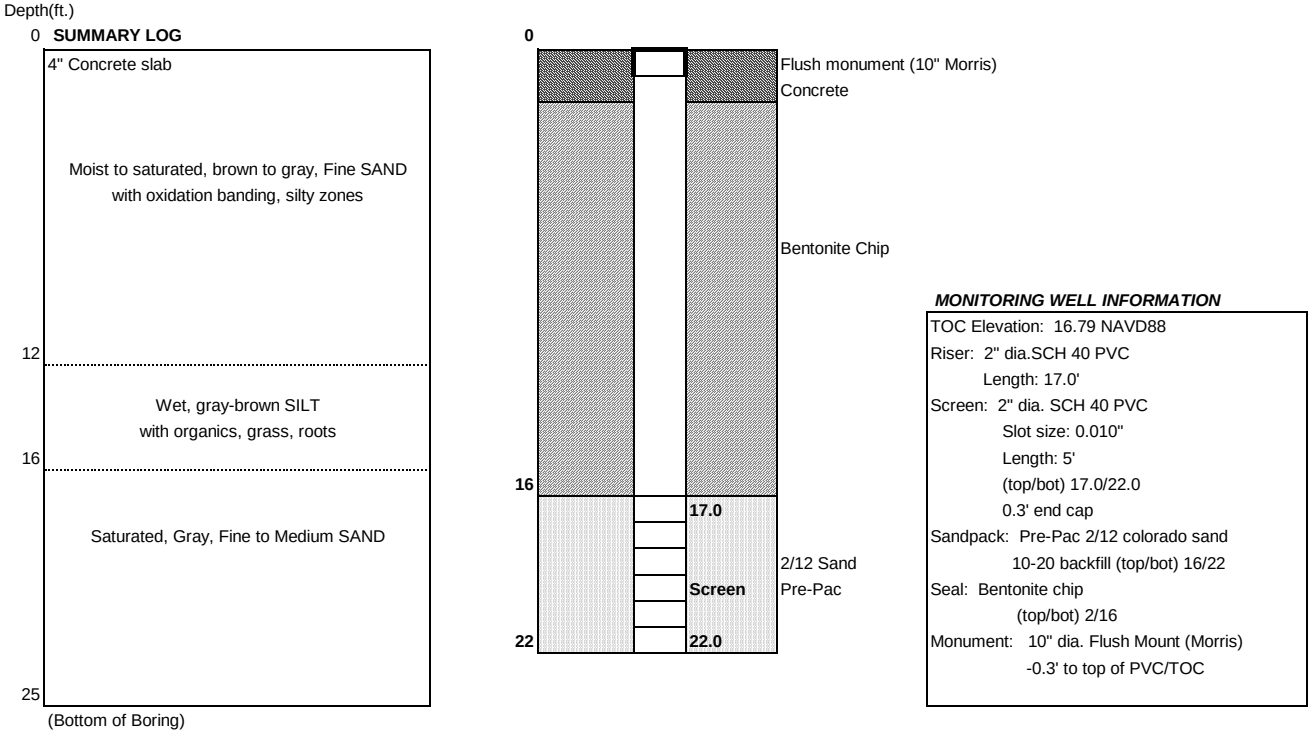
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW3**

Field Rep: D. Cooper	Location: N199878 E1269775 NAD83	Ecology ID# BHS521
Drilling Co.: Cascade	Ground surface elevation: 17.15' NAVD88	
Driller: Kasey Goble	Date Completed: 10/16/2012	
Drill Type: Power Probe 9600	Weather: Clear 60F	
Size/Type Casing: 2.5"	Sampler: 2" macro w/acrylic liner, 5' continuous push	

Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
A	grab @ 2-4'	0.8	0-5	48	-	1310	0.4-5' Moist, bwn, F SAND, ns, no
B	grab @ 7-8'	0.4	5-10	55	-	1320	5-8' Moist to wet, bwn, F SAND, oxidation band @ 8', ns, no 8-10' Wet to sat, gry, F SAND, sat @ 8.5', ns, no
C	grab @ 12-13'	0.9	10-15	55	-	1330	10-12' Sat, gry, silty F SAND, ns, no 12-13.5' Wet, gry, SILT, ns, no 13.5-15' Wet, bwn, SILT, w/organics, grass, roots
D	grab @ 17-18'	0.9	15-20	36	-	1340	15-16' As above 16-20' Sat, gry, F-M SAND, ns, no
			20-25	60	-		20-25' As above

Bottom of boring @ 25.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

TOC Elevation: 16.79 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 17.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 17.0/22.0
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 16/22
Seal: Bentonite chip
(top/bot) 2/16
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

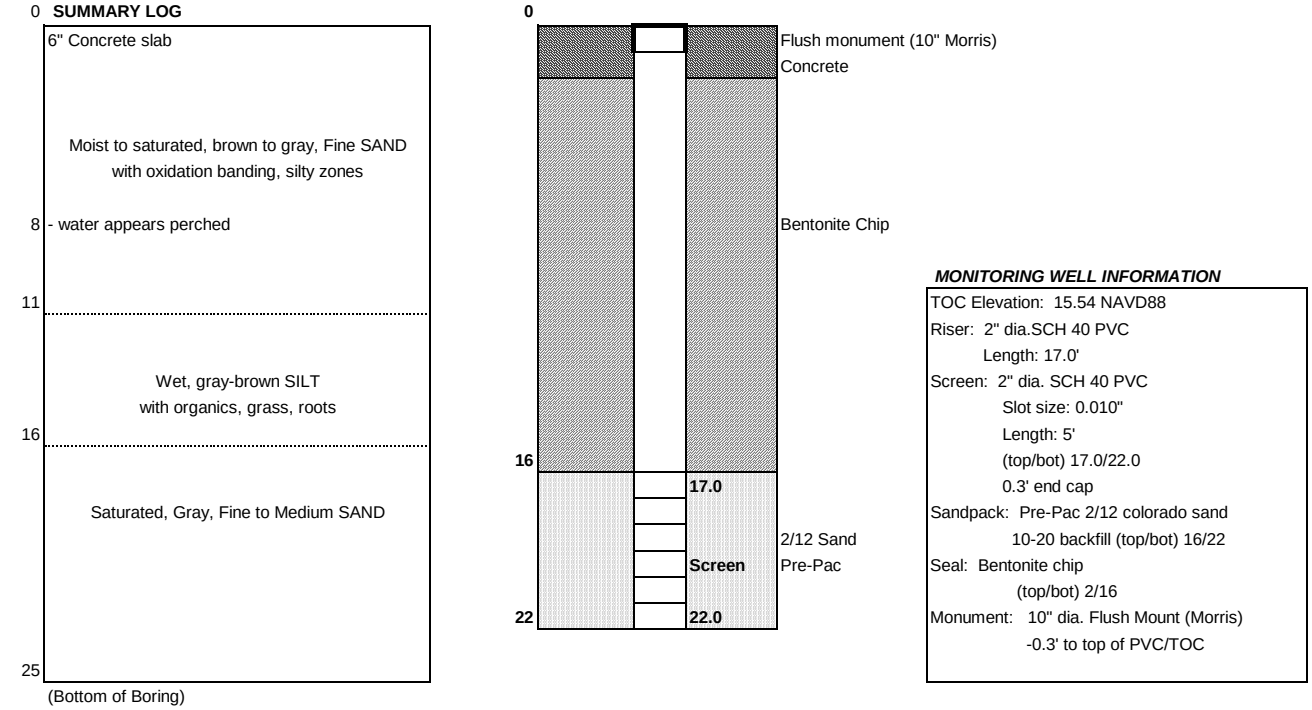
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW4**

Field Rep: D. Cooper | Location: N199986 E1269797 NAD83 | Ecology ID# BHS522
Drilling Co.: Cascade | Ground surface elevation: 15.86' NAVD88
Driller: Kasey Goble | Date Completed: 10/17/2012
Drill Type: Power Probe 9600 | Weather: Clear 50F
Size/Type Casing: 2.5" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
A	grab @ 3-4'	24	0-5	36	-	0810	0.5-5' Moist, bwn-gry, F SAND, ns, no
B	grab @ 7-8'	2.3	5-10	48	-	0820	5-10' Wet, gry, F SAND, sat@ 8', ns, no (perched zone)
C	grab @ 10-11'	3.1	10-15	55	-	0830	10-11' Sat, gry, F SAND w/ some silt, ns, no 11-12' Wet, gry, SILT, ns, no 12-15' Wet, bwn, organic SILT, w/scattered fibreous organics
D	grab @ 16-17'	3.2	15-20	55	-	0840	15-16' As above 16-17' Sat, gry, fine SAND, ns, no 17-20' Sat, gry, F-M SAND, ns, no
			20-25	60	-		20-25' As above

Bottom of boring @ 25.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

TOC Elevation: 15.54 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 17.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 17.0/22.0
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 16/22
Seal: Bentonite chip
(top/bot) 2/16
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

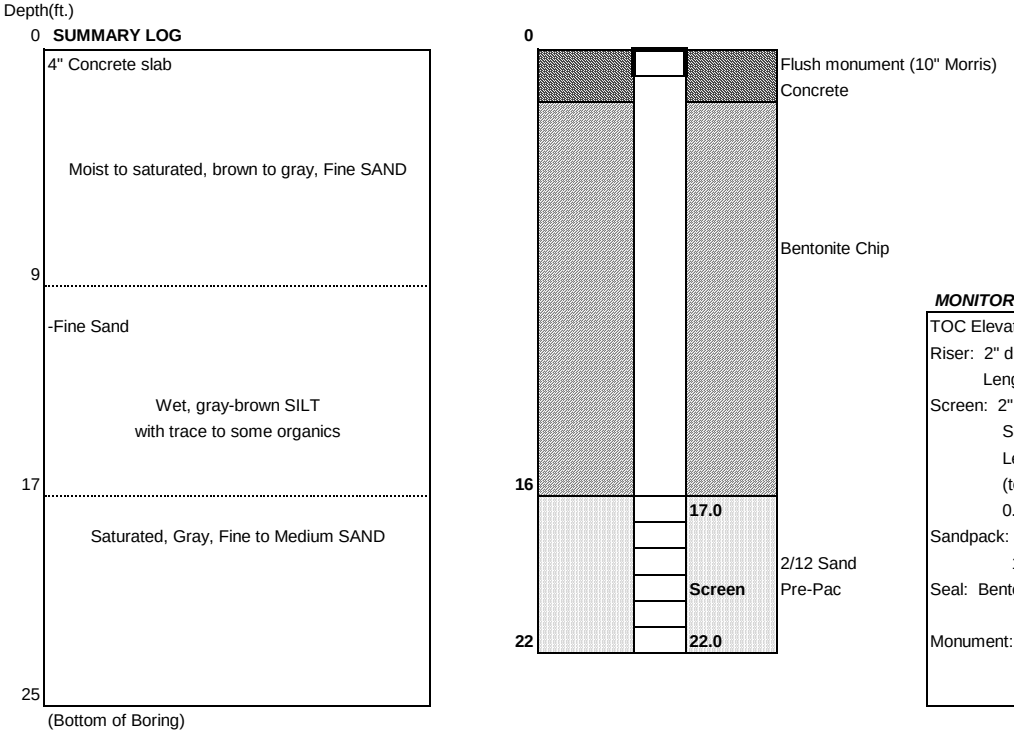
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW5**

Field Rep: D. Cooper | Location: N200065 E1269721 NAD83 | Ecology ID# BHS523
Drilling Co.: Cascade | Ground surface elevation: 15.51' NAVD88
Driller: Kasey Goble | Date Completed: 10/17/2012
Drill Type: Power Probe 9600 | Weather: Clear 55F
Size/Type Casing: 2.5" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
A	grab @ 3-4'	3.6	0-5	40	-	1010	0.4-5' Moist, bwn, F SAND, ns, no
B	grab @ 7-8'	0.5	5-10	55	-	1020	5-6' As above 6-9' Wet-sat, gry, F SAND, saturated @ 7.5' ns, no 9-10' Wet, gry, SILT, w/trace organics, ns, no
C	grab @ 12-13'	0.8	10-15	55	-	1030	10-10.5' Sat, gry, F SAND, ns, no 10.5-11.5' Wet, gry, F sandy, SILT, ns, no 11.5-15' Wet, bwn, SILT, w/trace to some organics, ns, no
D	grab @ 17-18'	1.1	15-20	55	-	1040	15-17' Wet, bwn, organic, SILT, soft, ns, no 17-20' Sat, gry, F-M SAND, ns, no
			20-25	60	-		20-25' As above

Bottom of boring @ 25.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

TOC Elevation: 15.14 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 17.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 17.0/22.0
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 16/22
Seal: Bentonite chip
(top/bot) 2/16
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW6**

Field Rep: D. Cooper | Location: N200249 E1269827 NAD83 | Ecology ID# BHS524
Drilling Co.: Cascade | Ground surface elevation: 11.88' NAVD88
Driller: Kasey Goble | Date Completed: 10/17/2012
Drill Type: Power Probe 9600 | Weather: Clear 55F
Size/Type Casing: 2.5" | Sampler: 2" macro w/acrylic liner, 5' continuous push

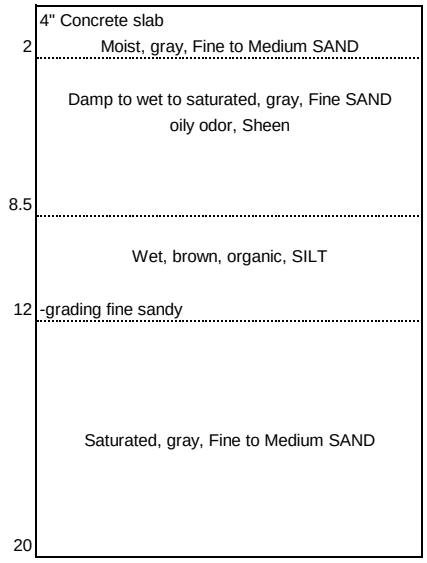
Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
			0-5	40	-		0.4-2' Moist, gry, F-M SAND, w/brick fragments
A	grab @ 3-5'	98				1150	2-5' Wet, gry, F SAND, strong oily odor, light sheen 4-5'
			5-10	60	-		5-8' As above, becomes saturated @ 6.5' slight sheen
B	grab @ 6-8'	130				1200	8-8.5' Wet, gry, F SAND, ns, slight odor
C	grab @ 9-10	2.2				1210	8.5-10' Wet, bwn, organic, SILT, ns, no
			10-15	60	-		10-12' As above, soft, grading F sandy, ns, no
D	grab @ 12-13	0.9				1220	12-15' Sat, gry, F SAND, grading coarser, ns, no
			15-20	60	-		15-20' Sat, gry, F-M SAND, ns, no

Bottom of boring @ 20.0'

MONITORING WELL DIAGRAM

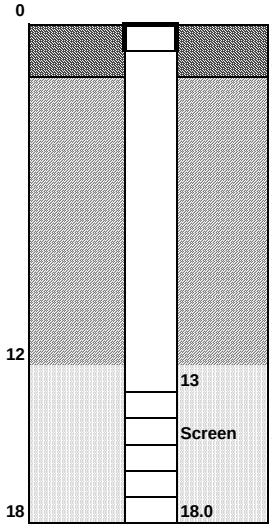
Depth(ft.)

0 **SUMMARY LOG**



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.



MONITORING WELL INFORMATION

TOC Elevation: 11.53 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 13.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 13.0/18.0
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 12/18
Seal: Bentonite chip
(top/bot) 2/12
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW7**

Field Rep: D. Cooper | Location: N200185 E1269970 NAD83 | Ecology ID# BHS519
Drilling Co.: Cascade | Ground surface elevation: 13.02' NAVD88
Driller: Kasey Goble | Date Completed: 10/16/2012
Drill Type: Power Probe 9600 | Weather: Clear 55F
Size/Type Casing: 2.5" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
A	grab @ 3-4'	7.5	0-5	36	-	0940	0.5-5' Moist, gry, F SAND, ns, no
B	grab @ 7-8'	4.5	5-10	50	-	0950	5-10' Wet-sat, gry, silty, F SAND, w/F Sand interbeds, ns, no saturated @ 7'
C	grab @ 11-12'	2.5	10-15	55	-	1000	10-12' As above 12-15' Sat, gry, F SAND, w/trace silt, ns, no
D	grab @ 16-17'	0.8	15-20	50	-	1010	15-20' As above grading coarser @ 19' to medium to coarse SAND

Bottom of boring @ 20.0'

MONITORING WELL DIAGRAM

Depth(ft.)

0 **SUMMARY LOG**

6" Concrete slab

Damp to wet to saturated, gray, Fine SAND

5

Wet to saturated, silty, Fine SAND

12

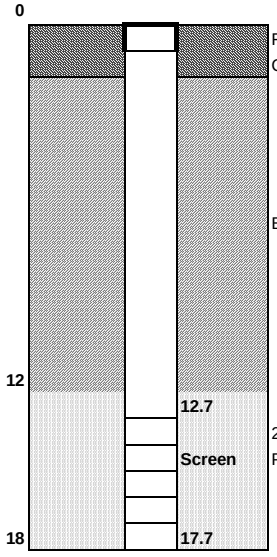
Saturated, gray, Fine SAND

-Medium to Coarse SAND

20

(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.



MONITORING WELL INFORMATION

TOC Elevation: 12.67 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 12.7'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 12.7/17.7
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 12/18
Seal: Bentonite chip
(top/bot) 2/12
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DOF-MW8**

Field Rep: D. Cooper | Location: N200097 E1270036 NAD83 | Ecology ID# BHS518
Drilling Co.: Cascade | Ground surface elevation: 13.84' NAVD88
Driller: Kasey Goble | Date Completed: 10/16/2012
Drill Type: Power Probe 9600 | Weather: Clear 55F
Size/Type Casing: 2.5" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Type Sample Saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
A	grab @ 3-4'	1.5	0-5	56	-	0810	0.5-1' Wet, bwn, gravelly, SAND 1-1.5' concrete slab 1.5-2' Wet, gray, gravelly, SAND, w/some silt poured rubber liner at 2' (Gaco deck like) 2-5' Moist, gry, F SAND, ns, no
B	grab @ 7-8'	1.8	5-10	50	-	0820	5-10' Wet-sat, gry, silty, F SAND, ns, no saturated @ 8'
C	grab @ 11-12'	1.0	10-15	50	-	0830	10-14' As above 14-15' Sat, gry, F SAND, w/trace silt, ns, no
D	grab @ 15-16'	0.8	15-20	55	-	0840	15-18.5' As above 18.5-20' interbedded silt and F SAND, 4" layers

Bottom of boring @ 20.0'

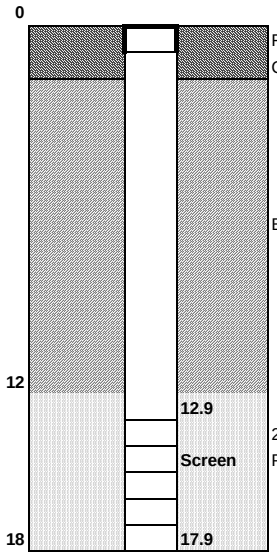
MONITORING WELL DIAGRAM

Depth(ft.)

SUMMARY LOG

0 — 6" Concrete slab atop gravelly SAND
2 — 6" concrete slab atop gravelly sand / liner
Moist, gray, Fine SAND
5
Wet to saturated, silty, Fine SAND
14
Saturated, gray, Fine SAND
-interbedded SILT and Fine SAND
20
(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.



MONITORING WELL INFORMATION

TOC Elevation: 13.51 NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 12.9'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 12.9/17.9
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 12/18
Seal: Bentonite chip
(top/bot) 2/12
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

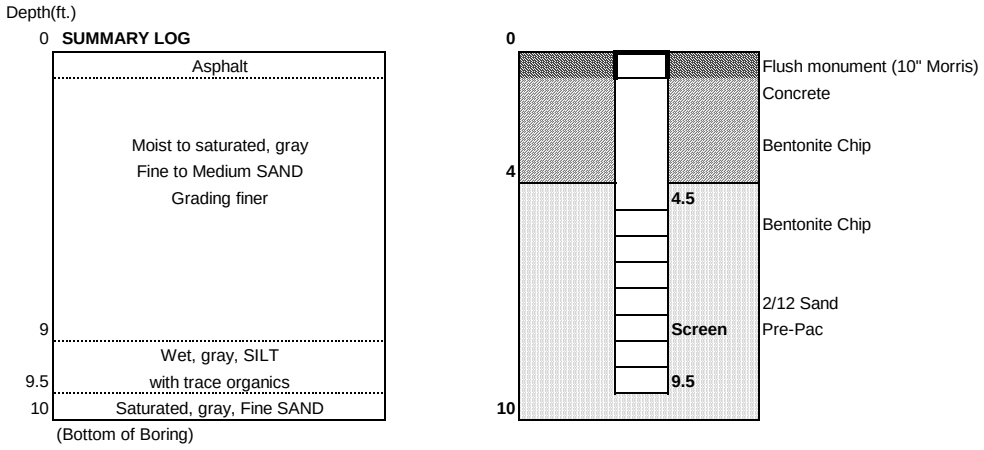
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Ap**

Field Rep: D. Cooper		Location:	N200173 E1269797 NAD83
Drilling Co.: Holt		Ground surface elevation:	13.5 Ft. NAVD 88
Driller: Louie		Date Completed:	10/5/2015
Drill Type: GeoProbe 7822DT		Weather:	Clear 70F
Size/Type Casing: 2"		Sampler:	2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		0-0.4 Aspnalt
Ap-4	3.5-4.5	0.8	NO/NS			1045	0.4-5' Moist, bwn-gry, F-M SAND
				5-10	60		5-9' Moist-sat, bwn-gry, F SAND
Ap-7	6.5-7.5	0.7	NO/NS			1050	9-9.5' Wet, gry, SILT, w/trace organics
Ap-10	9.5-10	1.4	NO/NS			1055	9.5-10' Sat. gry. F SAND

Bottom of boring @ 10.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE902
TOC Elevation: 13.08 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 4.5/9.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 4/9.5
Seal: Bentonite chip
(top/bot) 1/4
Monument: 10" dia. Flush Mount (Morris)
-0.4' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

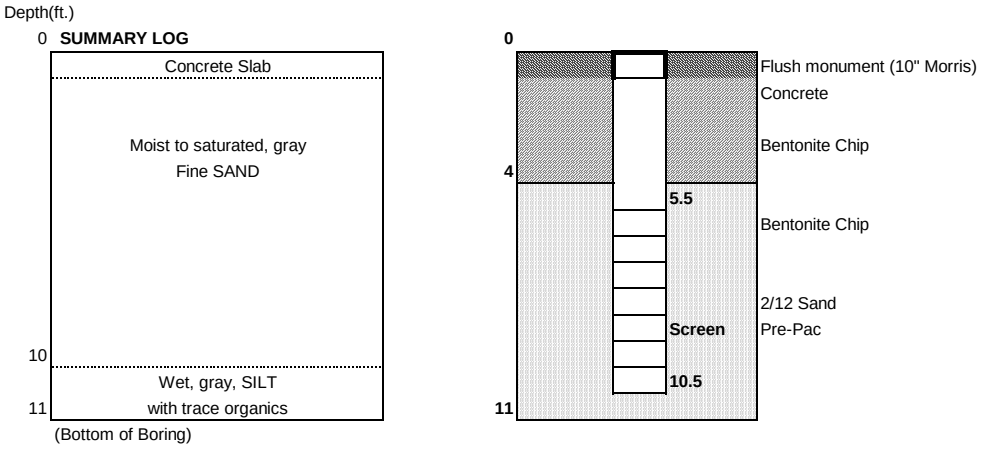
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Bp**

Field Rep: D. Cooper | Location: N200095 E1269852 NAD83
Drilling Co.: Holt | Ground surface elevation: 15.9 Ft. NAVD 88
Driller: Louie | Date Completed: 10/5/2015
Drill Type: GeoProbe 7822DT | Weather: Clear 70F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	50		0-0.4 Concrete Slab (Interior of building)
Bp-4	3.5-4.5	0.8	NO/NS			0930	0.4-5' Damp, gry, F SAND
				5-10	40		5-10' As above, saturated @ 9'
Bp-7	6.5-7.5	1.5	NO/NS			0935	
Bp-10	9-10	1.3	NO/NS			0940	
				10-11	12		10-11' Wet, gry, SILT, w/trace organics, very soft

Bottom of boring @ 10.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE901
TOC Elevation: 15.60 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 5.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 5.5/10.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 4/10.5
Seal: Bentonite chip
(top/bot) 1/4
Monument: 10" dia. Flush Mount (Morris)
-0.4' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

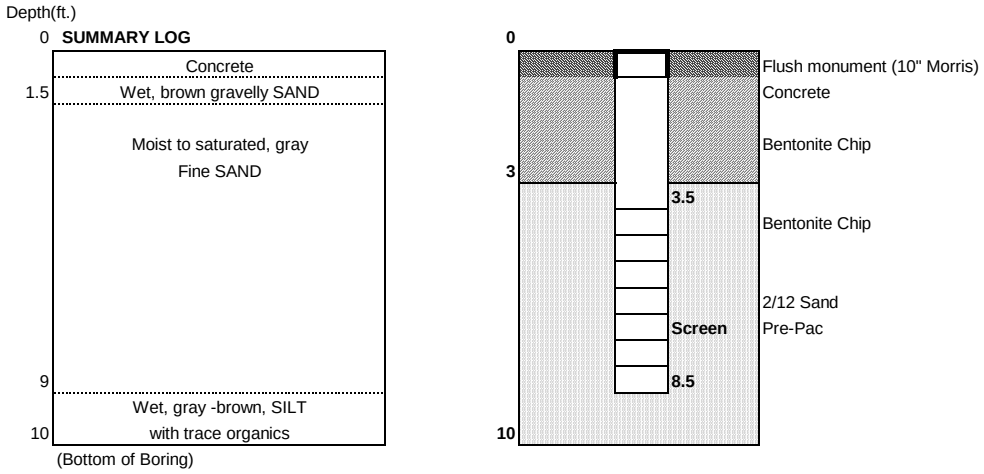
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Cp**

Field Rep: D. Cooper — Location: N199995 E1269943 NAD83
Drilling Co.: Holt — Ground surface elevation: 14.0 Ft. NAVD 88
Driller: Louie — Date Completed: 10/7/2015
Drill Type: GeoProbe 7800 — Weather: Rain 60F
Size/Type Casing: 2" — Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	50		0-0.4 Concrete Slab
Cp-4	3-5	0.7	NO/NS			0935	0.4-1' Wet. Bwn, gravelly, SAND
							1-1.5' Moist, mot bwn, silty, SAND, w/trace gravel
							1.5-5' Wet, gry, F SAND
				5-10	60		5-8' As above, saturated @ 6'
Cp-7	6-8	1.3	NO/NS			0940	8-9' Wet, gry, SILT, w/trace sand
Cp-10	9-10	1.8	NO/NS			0945	9-10' Wet, bwn, SILT, w/trace organics

Bottom of boring @ 10.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE916
TOC Elevation: 13.69 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 3.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 3.5/8.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 3/8.5
Seal: Bentonite chip
(top/bot) 1/3
Monument: 10" dia. Flush Mount (Morris)
-0.4' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Dp**

Field Rep: D. Cooper | Location: N200271 E1269723 NAD83
Drilling Co.: Holt | Ground surface elevation: 13.8 Ft. NAVD 88
Driller: Louie | Date Completed: 10/8/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		0-0.5' Concrete slab 0.5-1' Moist, mot bwn, SAND, w/trace gravel 1-5' Moist, bwn, F SAND
				5-10	50		5-7' As above 7-9' Moist-sat, gry, F SAND, w/some silt 9-9.5' Wet, gry. F Sandy, SILT 9.5-10' Sat, gry, F SAND, w/silty interbeds
				10-15	60		10-11' Wet, bwn, Organic, SILT 11-13.5' Wet, gry, silty, F SAND, w/trace organics 13.5-15' Sat, gry, F SAND

Note: Above log based on adjacent boring Du

Bottom of boring @ 12.0'

MONITORING WELL DIAGRAM

Depth(ft.)

0 **SUMMARY LOG**

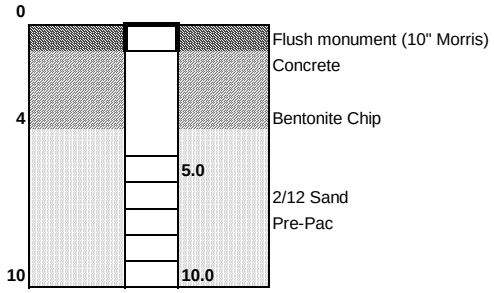
Concrete Slab

Moist to saturated, gray
Fine SAND
with some silt

9

10 Wet, brown, Organic SILT

(Bottom of Boring)



MONITORING WELL INFORMATION

Ecology ID# BJE904
TOC Elevation: 13.53 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 5.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 5/10
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 4/10
Seal: Bentonite chip
(top/bot) 1/4
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

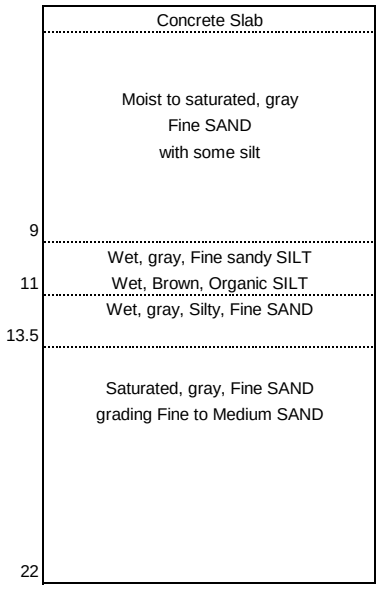
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Du**

Field Rep: D. Cooper | Location: N200273 E1269723 NAD83
Drilling Co.: Holt | Ground surface elevation: 13.8 Ft. NAVD 88
Driller: Louie | Date Completed: 10/8/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		0-0.5' Concrete slab
Du-4	3.5-5.5	0.5	NO/NS			1340	0.5-1' Moist, mot bwn, SAND, w/trace gravel
							1-5' Moist, bwn, F SAND
				5-10	50		5-7' As above
Du-7	6-8	0.2	NO/NS			13445	7-9' Moist-sat, gry, F SAND, w/some silt
Du-10	9-10	0.4	NO/NS			1350	9-9.5' Wet, gry. F Sandy, SILT
							9.5-10' Sat, gry, F SAND, w/silty interbeds
				10-15	60		10-11' Wet, bwn, Organic, SILT
Du-13	12-14	0.4	NO/NS			1355	11-13.5' Wet, gry, silty, F SAND, w/trace organics
							13.5-15' Sat, gry, F SAND
				15-20	60		15-20' As above, grading to F-M SAND
Du-16	15-17	0.3	NO/NS			1400	
				20-22	24		20-22' Sat, gry, F-M SAND
Du-21	19-22	0.6	NO/NS			1405	

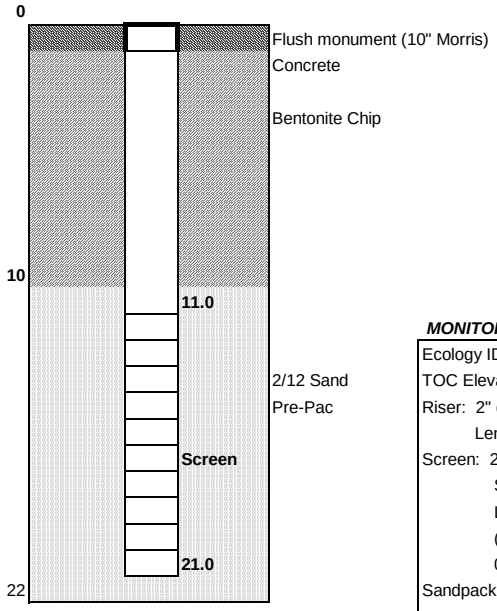
Bottom of boring @ 12.0'

SUMMARY LOG



(Bottom of Boring)

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE903
TOC Elevation: 13.57 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 11.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 11/21
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 10/21
Seal: Bentonite chip
(top/bot) 1/10
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Eu**

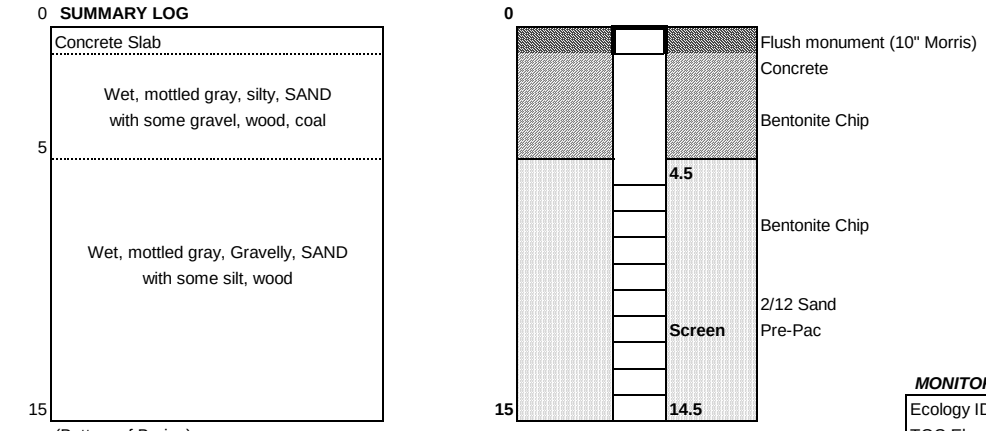
Field Rep: D. Cooper		Location:	N200297 E1270058 NAD83
Drilling Co.: Holt		Ground surface elevation:	12.2 Ft. NAVD 88
Driller: Louie		Date Completed:	10/6/2015
Drill Type: GeoProbe 7800		Weather:	Coudy 65F
Size/Type Casing: 2"		Sampler:	2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		4" slab 0.4-5' Wet, mot gry, silty, SAND, w/some gravel, wood, coal
				5-10	60		5-7' Wet, blk, gravelly, SAND 7-10' Wet, mot gry, gravelly, SAND, w/some silt, wood
				10-15	30		10-15' As Above, loose/soft
				15-20	60		15-15.5' Wet, blk, SILT 15.5-16' Sat, gry-blk, F SAND 16-16.5' Wet, blk, SILT 16.5-20' Sat, gry, F SAND, w/trace silt, wood

Note: Above log based on adjacent boring P30

Bottom of boring @ 15.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE908
TOC Elevation: 11.83 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 4.5/14.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 11/18
Seal: Bentonite chip
(top/bot) 1/3.5
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Fu**

Field Rep: D. Cooper | Location: N200170 E1270230 NAD83
Drilling Co.: Holt | Ground surface elevation: 13.1 Ft. NAVD 88
Driller: Louie | Date Completed: 10/8/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		0-1' Moist, Mot Bwn, gravelly, SAND, w/some silt 1-5' Moist, bwn, F-M SAND
				5-10	50		5-10' Wet-Sat, Mot bwn, F-M SAND, w/silty F Sand interbeds oxidation @ 9'
				10-15	60		10-11.5' Sat, bwn, F-M SAND, w/silt clasts, reddish oxidized 11.5-15' Sat, gry, F SAND, w/thin silty sand interbeds

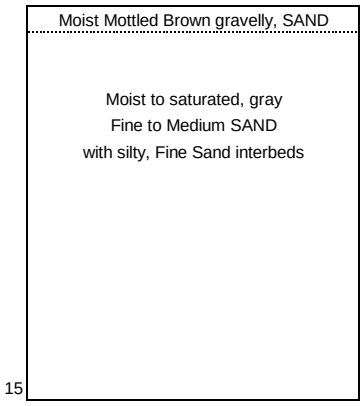
Note: Above log based on adjacent boring FI

Bottom of boring @ 15.0'

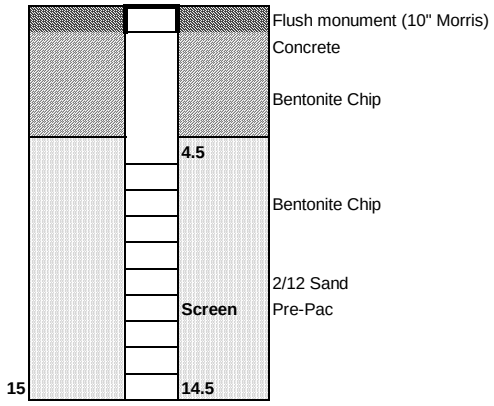
MONITORING WELL DIAGRAM

Depth(ft.)

0 **SUMMARY LOG**



(Bottom of Boring)



MONITORING WELL INFORMATION

Ecology ID# BJE920
TOC Elevation: 12.68 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 4.5/14.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 11/18
Seal: Bentonite chip
(top/bot) 1/3.5
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-F_L**

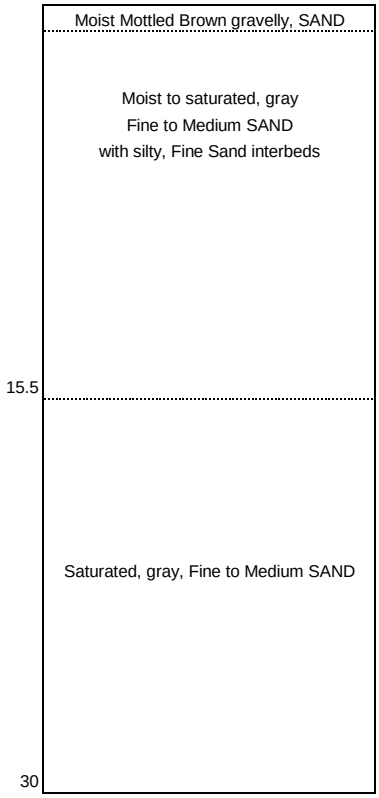
Field Rep: D. Cooper | Location: N200168 E1270230 NAD83
Drilling Co.: Holt | Ground surface elevation: 13.1 Ft. NAVD 88
Driller: Louie | Date Completed: 10/8/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		0-1' Moist, Mot Bwn, gravelly, SAND, w/some silt
FL-4	3-5	1.7	NO/NS			1205	1-5' Moist, bwn, F-M SAND
				5-10	50		5-10' Wet-Sat, Mot bwn, F-M SAND, w/silty F Sand interbeds
FL-7	6-8	2.7	NO/NS			1210	oxidation @ 9'
FL-10	9-10	2.5	NO/NS			1215	
				10-15	60		10-11.5' Sat, bwn, F-M SAND, w/sil clasts, reddish oxidized
FL-13	12-14	2.6	NO/NS			1220	11.5-15' Sat, gry, F SAND, w/thin silty sand interbeds
				15-20	60		15-15.5' As above
FL-16	15.5-17	3	NO/NS			1225	15.5-20' Sat, gry, F-M SAND
				20-25	60		20-25' As Above w/occasional silty F Sand interbeds
FL-21	20-22	2.5	NO/NS			1230	
				25-30	60		25-30' Sat, gry, F-M SAND, w/red flecs

Bottom of boring @ 30.0'

Depth(ft.)

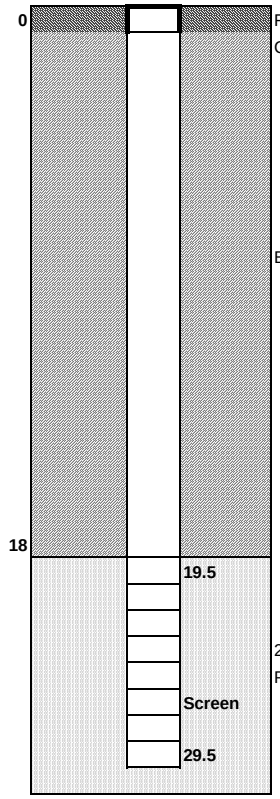
SUMMARY LOG



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE919
TOC Elevation: 12.80 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 19.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 19.5/29.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 18/30
Seal: Bentonite chip
(top/bot) 1/18
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Gu**

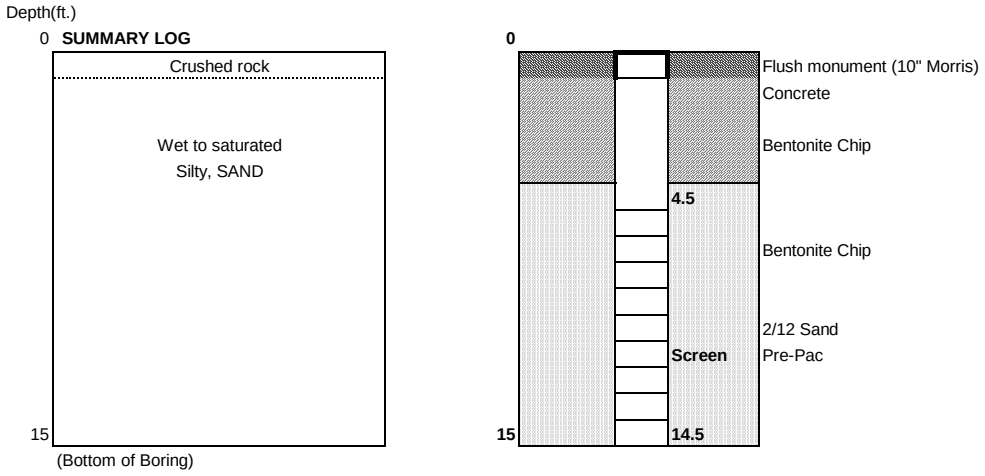
Field Rep: D. Cooper | Location: N200055 E1270222 NAD83
Drilling Co.: Holt | Ground surface elevation: 13.5 Ft. NAVD 88
Driller: Louie | Date Completed: 10/8/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	30		0-1' 1.5" minus crushed rock 1-2' Damp mot bwn, sandy gravel, w/some silt
				5-10	6		Wet gry, silty, SAND
				10-15	0		No recovery

Note: Above log based on adjacent boring GI

Bottom of boring @ 15.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE917
TOC Elevation: 13.13 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 4.5/14.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 11/18
Seal: Bentonite chip
(top/bot) 1/3.5
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-G_L**

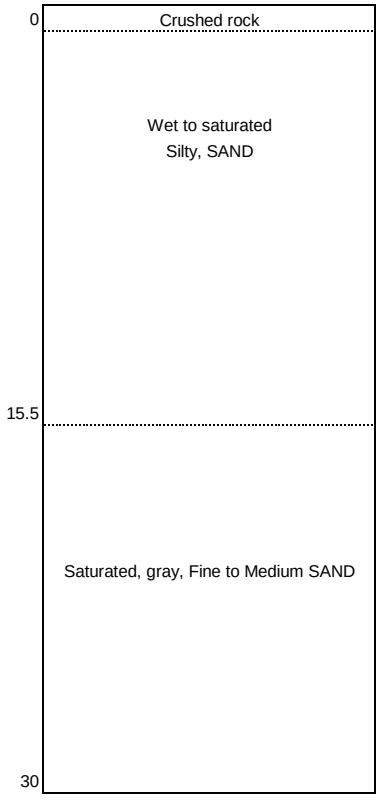
Field Rep: D. Cooper | Location: N200055 E1270221 NAD83
Drilling Co.: Holt | Ground surface elevation: 13.7 Ft. NAVD 88
Driller: Louie | Date Completed: 10/8/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
		1.3	NO/NS	0-5	30		0-1' 1.5" minus crushed rock 1-2' Damp mot bwn, sandy gravel, w/some silt
		1.2	NO/NS	5-10	6		Wet gry, silty, SAND
				10-15	0		No recovery
		1.5	NO/NS	15-20	60		15-20' Sat, gry, silty, F SAND, very soft/loose
		0.4	NO/NS	20-25	60		20-25' Sat, gry, F-M SAND, red flecs, scattered shells
		0.5	NO/NS	25-30	60		25-30' As above

Bottom of boring @ 30.0'

Depth(ft.)

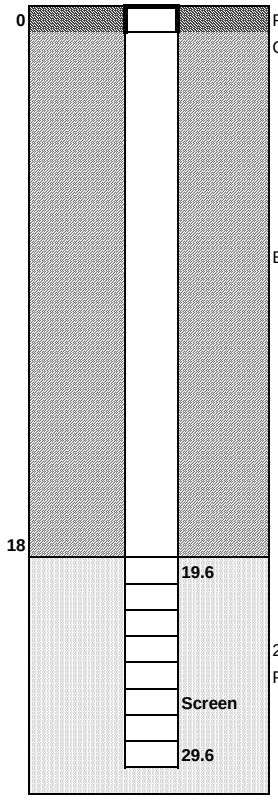
SUMMARY LOG



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE919
TOC Elevation: 13.32 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 19.6'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 19.6/29.6
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 18/30
Seal: Bentonite chip
(top/bot) 1/18
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-H_L**

Field Rep: D. Cooper	Location:	N200269 E1269831 NAD83	
Drilling Co.: Holt	Ground surface elevation:	12.0 Ft. NAVD 88	
Driller: Louie	Date Completed:	10/7/2015	
Drill Type: GeoProbe 7822DT	Weather:	Rain 60F	
Size/Type Casing: 2"	Sampler:	2" macro w/acrylic liner, 5' continuous push	

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	12		Post holed 3' near gas line 0-4.5' Moist, gry, F-M SAND w/some gravel 4.5-5' Wet, black, F SAND
				5-10	60		5-6.5 As Above 6.5-6.7' Thin SILT interbed 6.7-8' Sat, gry, F SAND 8-10' Wet, bwn, organic, SILT
				10-15	60		10-10.5' As Above 10.5- 14.5' Sat, gry, F SAND, w/zones of trace silt 14.5-15' Sat, gry, F-M SAND
				15-20	60		15-20' As Above
				20-25	60		20-25' As Above

Note: Above log based on adjacent Probe P17

Bottom of boring @ 30.0'

Depth(ft.)

0 **SUMMARY LOG**

Moist, gray, Fine to Medium SAND with some gravel

4.5

Wet, black Fine SAND

6.5

Wet to saturated, gray, Fine SAND

8

Wet, brown, organic, SILT

10.5

Saturated, gray, Fine SAND

14.5

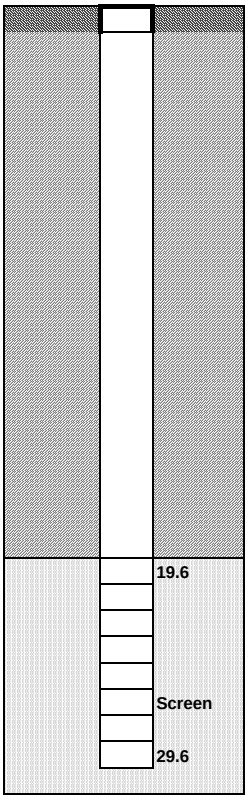
Saturated, gray, Fine to Medium SAND

30

(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

0 **MONITORING WELL DIAGRAM**



MONITORING WELL INFORMATION

Ecology ID# BJE911
TOC Elevation: 11.73 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 10.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 19.6/29.6
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 18/30
Seal: Bentonite chip
(top/bot) 1/18
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-I_L**

Field Rep: D. Cooper	Location:	N200248 E1270172 NAD83	
Drilling Co.: Holt	Ground surface elevation:	12.9 Ft. NAVD 88	
Driller: Louie	Date Completed:	10/7/2015	
Drill Type: GeoProbe 7822DT	Weather:	Rain 60F	
Size/Type Casing: 2"	Sampler:	2" macro w/acrylic liner, 5' continuous push	

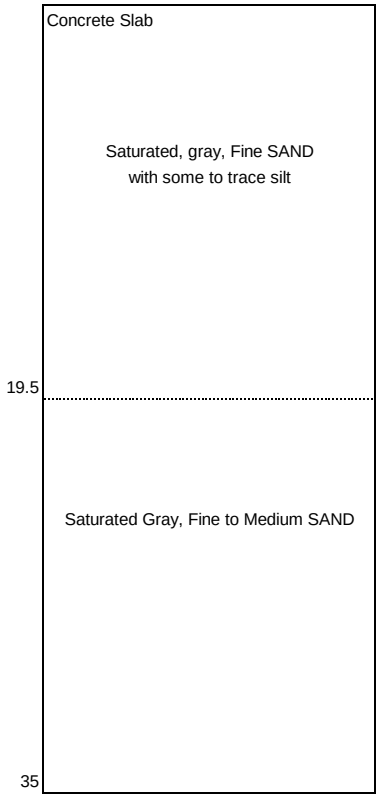
Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		4" slab 0.4-1.5' Moist, bwn, F-M SAND 1.5-5' Wet, bwn, F SAND, w/some silt, thin roots
				5-10	60		5-8" As Above 8-10' Sat, gry, F SAND, w/silty sand interbeds
				10-15	60		10-15' As Above
				15-20	60		15-19.5' As Above 19.5-20' Sat, gry, F-M SAND
				20-25	50		20-25' As Above
				25-30	50		25-30' As Above
				30-35	50		30-35' As Above

Note: Above log based on adjacent Probe P31

Bottom of boring @ 35.0'

Depth(ft.)

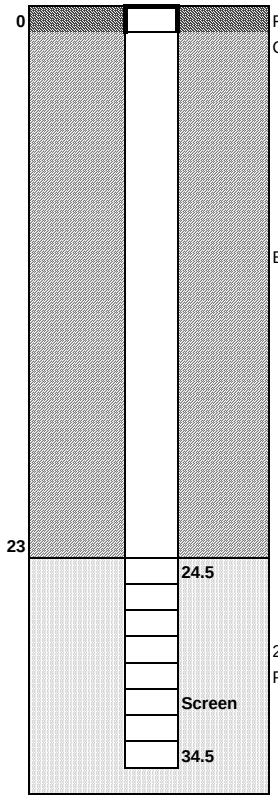
0 **SUMMARY LOG**



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE912
TOC Elevation: 12.59 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 24.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 24.5/34.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 23/35
Seal: Bentonite chip
(top/bot) 1/24
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

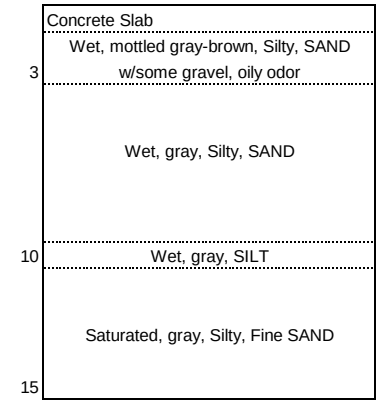
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Ju**

Field Rep: D. Cooper		Location:	N200282 E1270134 NAD83
Drilling Co.: Holt		Ground surface elevation:	12.5 Ft. NAVD 88
Driller: Louie		Date Completed:	10/7/2015
Drill Type: GeoProbe 7800		Weather:	Rain 65F
Size/Type Casing: 2"		Sampler:	2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
Ju-4	3-4	1.9	SO/NS	0-5	40		0-0.5' 3" Concrete slab on sand 0.5-1.5' Wet, bwn, silty SAND, w/some gravel 1.5-3' Wet, dk gry, silty, SAND, w/some gravel, oily odor no sheen 3-3.5' Cored wood
Ju-7	no sample			5-10	18		5-6' Poor recovery - wood core atop Wet, gry, Silty, SAND, w/some gravel
Ju-10	10-11	2.9	NO/NS				
Ju-13	12.5-13.5	0.4	NO/NS	10-16	60		10-10.5' Wet, gry, SILT, sulfurous odor 10.5-11.5' Wet, mot gry-bwn, silty, SAND,w/scatered organics 11.5-14' Sat, gry, silty, F SAND
Ju-15	14-15	0.3	NO/NS				14-15' Sat, gry, F SAND, w/organics

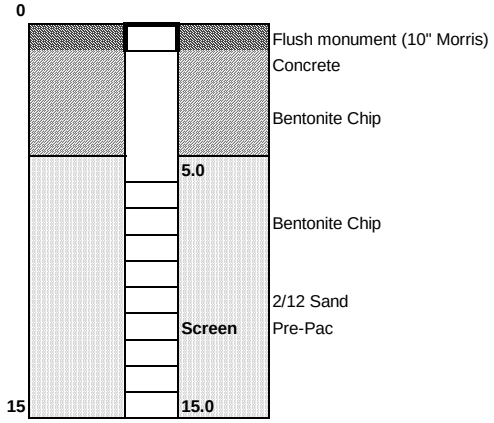
Bottom of boring @ 15.0'

SUMMARY LOG



(Bottom of Boring)

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE913
TOC Elevation: 12.18 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 5.0'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 5/15
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 4/15
Seal: Bentonite chip
(top/bot) 1/4
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor; so - slight odor

Dalton, Olmsted Fuglevand, Inc.
Environmental Consultants

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Ku**

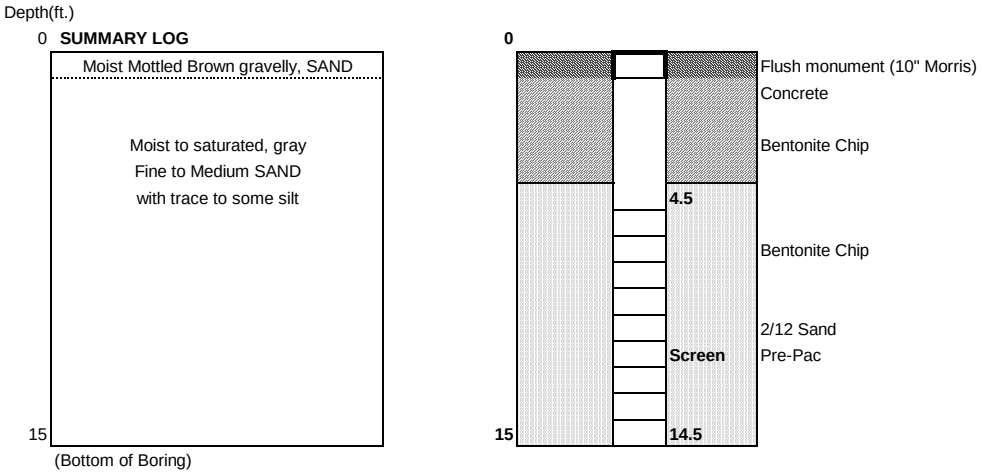
Field Rep: D. Cooper		Location:	N199927 E1270348 NAD83
Drilling Co.: Holt		Ground surface elevation:	12.0 Ft. NAVD 88
Driller: Louie		Date Completed:	10/7/2015
Drill Type: Power Probe 9600		Weather:	Rain 65F
Size/Type Casing: 2"		Sampler:	2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
KL-4	3-5	0.1	NO/NS	0-5	40	1305	0-1' Moist, Mot Bwn, gravelly, silty, SAND 1-5' Moist, bwn-gry, F-M SAND, w/some silt
KL-7	7-9	0.3	NO/NS	5-10	50	1310	5-10' As above
KL-12	11-13	0.3	NO/NS	10-15	60	1315	10-15' Sat, gry, F SAND, w/trace to some silt

Note: Above log based on adjacent boring KI

Bottom of boring @ 15.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE915
TOC Elevation: 11.59 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 4.5/14.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 11/18
Seal: Bentonite chip
(top/bot) 1/3.5
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

LOG MW-Ku

Dalton, Olmsted Fuglevand, Inc.
Environmental Consultants

ICS / Former NW Cooperage
Seattle, Washington

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-K_L**

Field Rep: D. Cooper
Drilling Co.: Holt
Driller: Louie
Drill Type: Power Probe 9600
Size/Type Casing: 2"

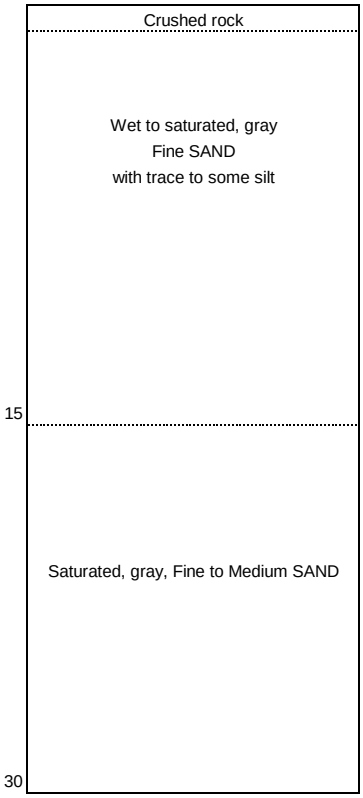
Location: N199925 E1270348 NAD83
Ground surface elevation: 11.9 Ft. NAVD 88
Date Completed: 10/7/2015
Weather: Rain 65F
Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
KL-4	3-5	0.1	NO/NS	0-5	40	1305	0-1' Moist, Mot Bwn, gravelly, silty, SAND 1-5' Moist, bwn-gry, F-M SAND, w/some silt
KL-7	7-9	0.3	NO/NS	5-10	50	1310	5-10' As above
KL-12	11-13	0.3	NO/NS	10-15	60	1315	10-15' Sat, gry, F SAND, w/trace to some silt
Kl-17	16-18	0.2	NO/NS	15-20	60	1320	15-20' Sat, gry,F SAND
Kl-22	21-23	0.1	NO/NS	20-25	60	1325	20-25' As above, grading coarser
				25-30	60		25-30' Sat, gry, F-M SAND

Bottom of boring @ 30.0'

Depth(ft.)

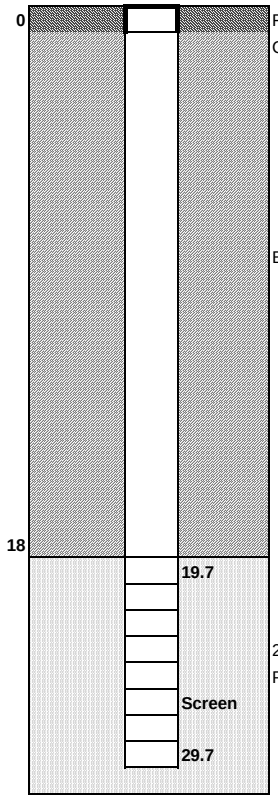
SUMMARY LOG



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE914
TOC Elevation: 11.57 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 19.7'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 19.7/29.7
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 18/30
Seal: Bentonite chip
(top/bot) 1/18
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

LOG MW-KL

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-Lu**

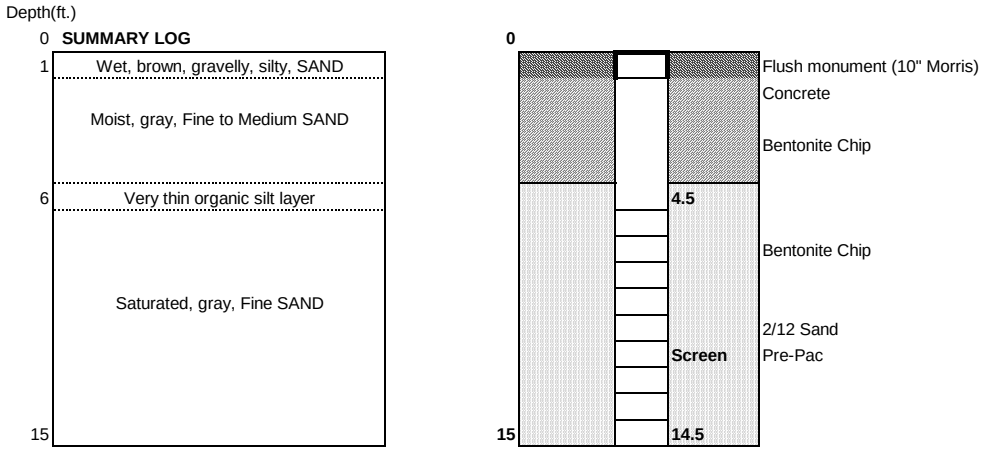
Field Rep: D. Cooper | Location: N199901 E1270258 NAD83
Drilling Co.: Holt | Ground surface elevation: 12.0 Ft. NAVD 88
Driller: Louie | Date Completed: 10/6/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	45		0-1' Wt, bwn, gravelly, SAND, w/some silt 1-5' Moist, gry, F-M SAND
				5-10	60		5-6' As above 6-6.1' Wet, bwn, organic, SILT 6.1-10' Sat, bwn-gry, silty, F SAND
				10-15	60		10-15' As Above grading sandy

Note: Above log based on adjacent boring P27

Bottom of boring @ 15.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE906
TOC Elevation: 11.69 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 4.5/14.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 11/18
Seal: Bentonite chip
(top/bot) 1/3.5
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **MW-L$_L$**

Field Rep: D. Cooper | Location: N199899 E1270260 NAD83
Drilling Co.: Holt | Ground surface elevation: 12.0 Ft. NAVD 88
Driller: Louie | Date Completed: 10/6/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	45		0-1' Wt, bwn, gravelly, SAND, w/some silt 1-5' Moist, gry, F-M SAND
				5-10	60		5-6' As above 6-6.1' Wet, bwn, organic, SILT 6.1-10' Sat, bwn-gry, silty, F SAND
				10-15	60		10-15' As Above grading sandy
				15-20	60		15-20' Sat, gry, F-M SAND
				20-25	60		20-25' Sat, gry, F SAND. w/some silt
				25-30	60		25-30' Sat, gry, F SAND

Note: Above log based on adjacent boring P27

Bottom of boring @ 30.0'

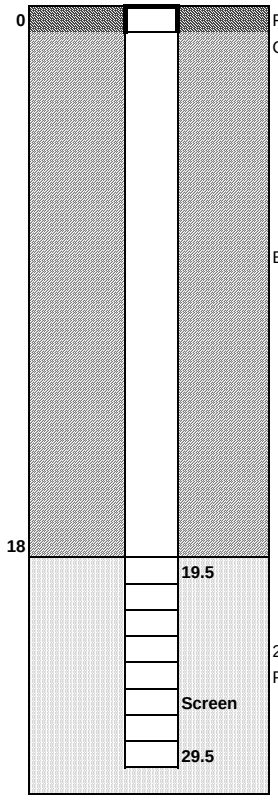
Depth(ft.)

SUMMARY LOG

0
Wet, brown, gravelly, silty, SAND
Moist, gray, Fine to Medium SAND
Very thin organic silt layer
Saturated, gray, Fine SAND
or
Fine to Medium SAND
30
(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE905
TOC Elevation: 11.65 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 19.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 19.5/29.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 18/30
Seal: Bentonite chip
(top/bot) 1/18
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

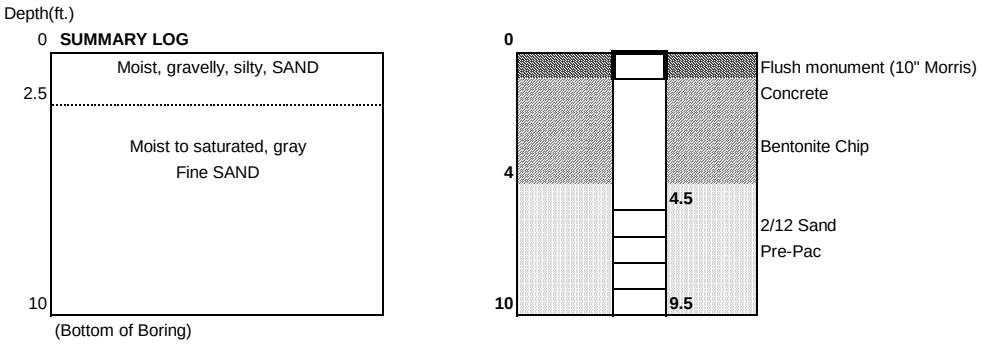
DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **HC-B2(R)**

Field Rep: D. Cooper | Location: N200186 E1270108 NAD83
Drilling Co.: Holt | Ground surface elevation: 12.8 Ft. NAVD 88
Driller: Louie | Date Completed: 10/6/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	48		0-2.5' Moist, mot gry-bwn, gravelly, silty, SAND 2.5-5' Moist-sat, gry, F SAND
				5-10	52		5-10' As above

Note: Above log based on adjacent boring P18 — Bottom of boring @ 10.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE907
TOC Elevation: 12.50 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 4.5/9.5
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 4/10
Seal: Bentonite chip
(top/bot) 1/4
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **LNAPL-1**

Field Rep: D. Cooper | Location: N200212 E1270040 NAD83
Drilling Co.: Holt | Ground surface elevation: 12.6 Ft. NAVD 88
Driller: Louie | Date Completed: 10/6/2015
Drill Type: GeoProbe 7800 | Weather: Coudy 65F
Size/Type Casing: 2" | Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-5	40		6" concrete slab 0.5-1' Wet, mot bwn, sandy, GRAVEL 1-5' Wet, mot gry, silty, SAND, w/some gravel, wood
				5-10	60		5-9.5' Wet-sat, gry, F SAND, w/trace silt 9.5-10' Wet, gry, F SAND

Note: Above log based on adjacent boring P29 — Bottom of boring @ 10.0'

MONITORING WELL DIAGRAM

Depth(ft.)

0 **SUMMARY LOG**

-Concrete Slab on sandy, Gravel

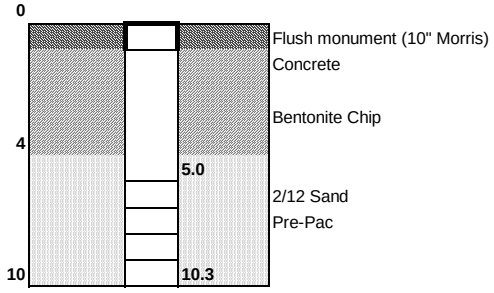
Wet, mottled gray, silty, SAND with some gravel, wood

5

Wet to saturated, gray, Fine SAND with trace silt

10

(Bottom of Boring)



MONITORING WELL INFORMATION

Ecology ID# BJE910
TOC Elevation: 12.24 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.5'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 5.0/10.0
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 4/10
Seal: Bentonite chip
(top/bot) 1/4
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO.

LNAPL-2

Field Rep: D. Cooper
Drilling Co.: Holt
Driller: Louie
Drill Type: GeoProbe 7800
Size/Type Casing: 2"

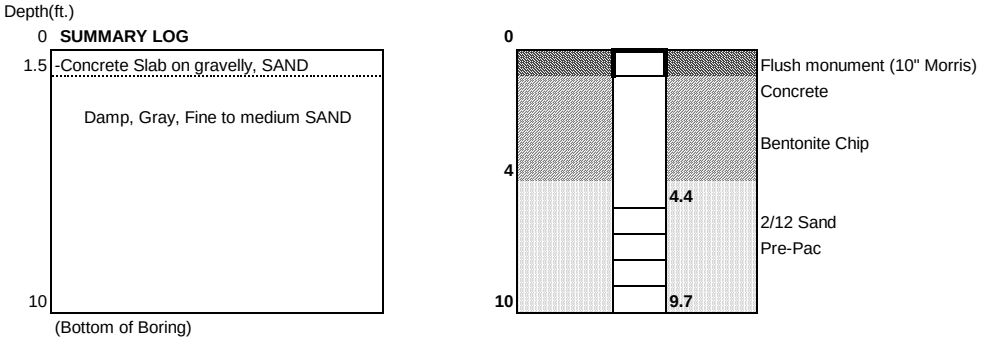
Location: N200254 E1269921 NAD83
Ground surface elevation: 12.2 Ft. NAVD 88
Date Completed: 10/6/2015
Weather: Coudy 65F
Sampler: 2" macro w/acrylic liner, 5' continuous push

Spl. No.	Sample Interval (ft. bgs.)	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Time	Sample Description
				0-4	40		4" concrete 0.5-1.5' wet, mot gry, gravelly, SAND, w/metal parts, oily odor, heavy sheen 1.5-4' damp, gry, F-M SAND, no odor, no sheen
				4-8	48		4-8' moist-wet, gry, F-M SAND, w/trace silt, brick, gravel slight odor, no sheen
				8-12	48		8-10' as above becoming sat 10-12' sat gry, silty F SAND, w/wood debris, moderate odor, slight sheen

Note: Above log based on adjacent boring P8

Bottom of boring @ 10.0'

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

Ecology ID# BJE909
TOC Elevation: 11.96 Ft. NAVD 88
Riser: 2" dia.SCH 40 PVC
Length: 4.4'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 5'
(top/bot) 4.4/9.4
0.3' end cap
Sandpack: Pre-Pac 2/12 colorado sand
10-20 backfill (top/bot) 4/10
Seal: Bentonite chip
(top/bot) 1/4
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations: PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
Sat. - saturated
mot - mottled
ns - no sheen
no - no odor

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

PUSH PROBE LOGS
UPLAND ICS/NWC SITE

REMEDIAL INVESTIGATION REPORT
ICS/NWC
SEATTLE, WASHINGTON

Dalton, Olmsted & Fuglevand, Inc.

BORING - DESCRIPTION OF SAMPLES & DATA

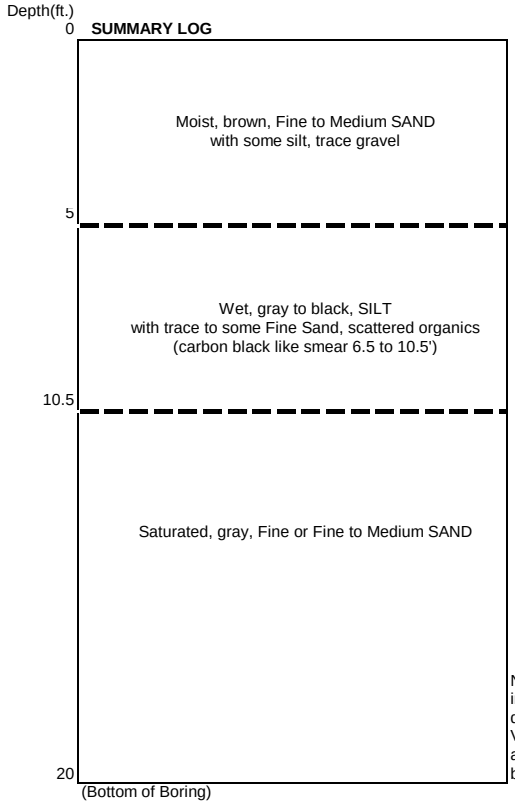
LP1

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2" Rod

Location: N199889 E1270243 NAD83
Elevation (Ft.): Approx. 15 ft. MLLW
Date Completed: 10/15/12
Weather: Rain 55F
Hammer Type: Direct push

Ground Surface: Quarry spalls
Sampler Type: 2" Macro w/ acrylic liner

Spl.No.	Type sample saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
			0-5	48		0-5' Most, bwn, F-M SAND, w/some silt, trace gravel, ns, no
A	Grab 3-5'	1.0			0845	
			5-10	40		5-6.5' Wet, gry-blk, F sandy, SILT, ns, no
B	Grab 6.5-8'	220			0855	6.5-10' Wet, blk, SILT, w/trace sand, scattered organics, ns, no
						carbon black -like smear
			10-15	40		10-10.5' As above
C	Grab 10.5-12'	0.9			0905	10.5-15' Sat, gry, F SAND, ns, no
D	Grab 16-18'	0.9	15-20	50	0915	15-20' Sat, gry, F-M SAND, ns, no



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

NOTES: Completed boring backfilled with granular bentonite
gry = gray; bwn = brown; blk = black
ns = no sheen
no = no odor
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

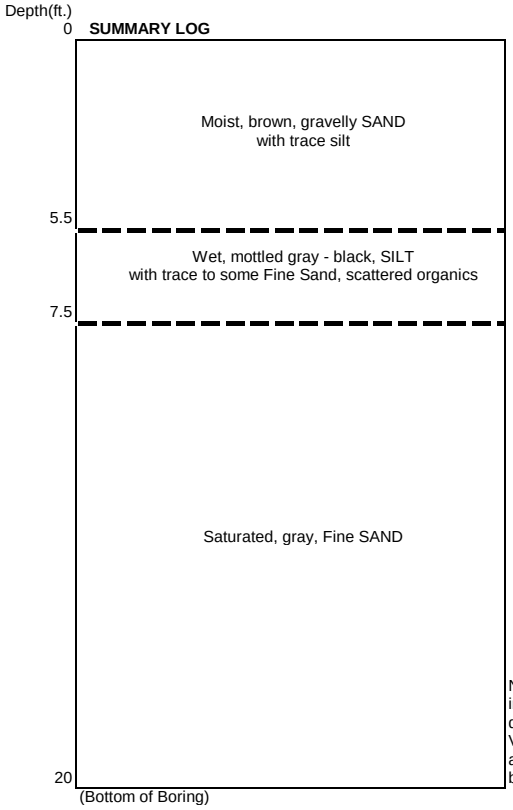
LP2

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2" Rod

Location: N199970 E1270215 NAD83
Elevation (Ft.): Approx. 15 ft. MLLW
Date Completed: 10/15/12
Weather: Rain 55F
Hammer Type: Direct push

Ground Surface: Quarry spalls
Sampler Type: 2" Macro w/ acrylic liner

Spl.No.	Type sample saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
			0-5	48		0-5' Most, bwn, gravelly, SAND, w/trace silt, ns, no
A	Grab 3-5'	2.3			1000	2-5' Moist, mot-bwn, silty SAND w/trace gravel, ns, no
			5-10	50		5-5.5' Wet, bwn, F Sandy, SILT, ns, no
B	Grab 5.5-7.5'	40			1010	5.5-7.5' Wet, mot gry-blk, SILT, w/trace F sand, ns, no
						7.5-10' Sat, gry, F SAND, w/trace silt, wood, organics
			10-15	60		10-15' Sat, gry, F SAND, ns, no
C	Grab 8-10'	1.3			1020	
D	Grab 15-16'	0.9	15-20	60	1030	15-20' As above



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

NOTES: Completed boring backfilled with granular bentonite
mot - mottled
gry = gray; bwn = brown; blk = black
ns = no sheen
no = no odor
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

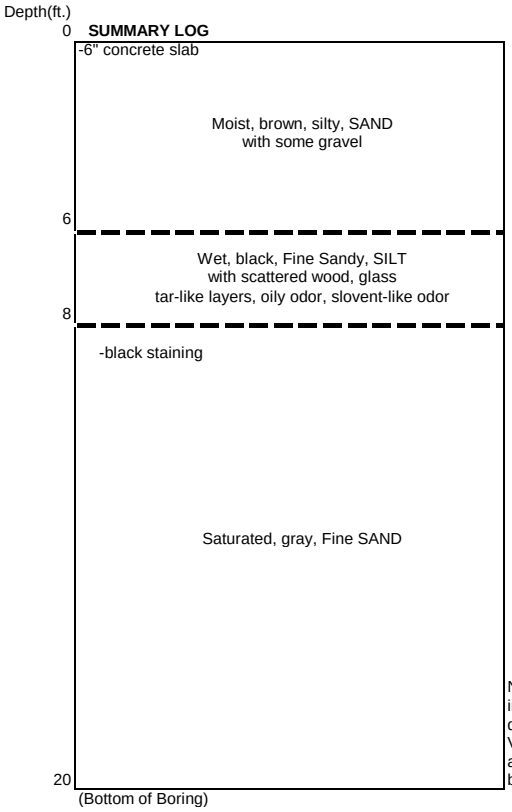
LP3

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2" Rod

Location: N200044 E1270155 NAD83
Elevation (Ft.): Approx. 15.5 ft. MLLW
Date Completed: 10/15/12
Weather: cloudy 55F
Hammer Type: Direct push

Ground Surface: Concrete slab
Sampler Type: 2" Macro w/ acrylic liner

Spl.No.	Type sample saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
			0-5	36		0-5' Moist, bwn, silty, SAND, w/some gravel, ns, no
A	Grab 3-5'	3.1			1045	
			5-10	40		5-6' As above
B	Grab 6-8'	340			1055	6-8' Wet, blk, F Sandy, SILT, w/scattered, wood, glass
						Tar-like layers, oily odor, solvent-like odor, no sheen
						8-10' Sat, blk-gry, F SAND, ns, no
			10-15	48		10-15' As above, with silty zones, becoming grayer with depth
C	Grab 10-12'	1.5			1105	
D	Grab 15-16'	1.0	15-20	60	1115	15-20' Sat, Dk gry, F SAND, ns, no



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

NOTES: Completed boring backfilled with granular bentonite
gry = gray; bwn = brown; blk = black
ns = no sheen
no = no odor
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

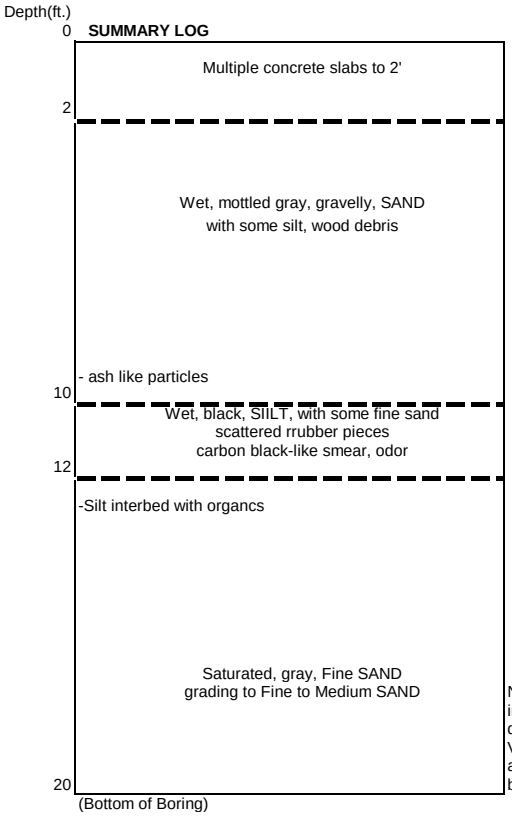
LP4

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2" Rod

Location: N200125 E1270110 NAD83
Elevation (Ft.): Approx. 16 ft. MLLW
Date Completed: 10/15/12
Weather: Cloudy 60F
Hammer Type: Direct push

Ground Surface: Concrete slab
Sampler Type: 2" Macro w/ acrylic liner

Spl.No.	Type sample saved	PID (ppm)	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
			0-5	36		0-2' Multiple concrete slabs, cored to 24"
						2-5' Wet, mot, gry-blk, gravelly, SAND, w/some silt, wood
			5-10	24		5-8' Poor recovery, slurry
A	Grab 8-10'	6.7			1400	8-10' Wet, mot gry, gravelly, SAND, w/wood, ash-like particles
			10-15	60		10-12' Wet, blk, SILT, w/some F Sand, scattered rubber
B	Grab 10-12'	920			1410	carbon black-like smear, slight odor, ns
C	Grab 14-15'	2.4			1420	12-12.5' Wet, gry-blk, F SAND, ns, no
						12.5-13' Wet, gry-blk, SILT, w/organics
						13-15' Sat, gry, F SAND, ns, no
D	Grab 17-18'	1.2	15-20	60	1430	15-20' Sat, gry, F SAND, ns, no
						grading to F-M SAND



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

NOTES Initial boring (N200127.5 E1270115.8) encountered a void from 4-5'
The void contained approximately 1' of black oily fluid
with the consistancy of bunker oil or paint, paint thinner-like odor.
A NAPL sample was collected as ICS-LP4-NAPL-101512
The boring was backfilled with bentonite chip.
Drill rig was moved 5' to the west and Probe LP4 was advanced.

gry = gray; bwn = brown; blk = black
ns = no sheen
no = no odor
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

P1

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	30		6" concrete
P1-A	grab @ 2.5'		A1, A2, A3			1605	0.5-1' moist, bwn, F-M SAND, w/some gravel, no odor no sheen
							1-3' moist, gray, gravelly, SAND, w/trace silt, mothball odor, no sheen
							Punctured facility drain line to King County Sewer
							Left hole open for repair
							Owner Rep. & facility manager present
							boring location previously screened for utilities and approved

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead

Depth(ft.)

SUMMARY LOG

0 — 4-inch concrete slab

Moist, brown, fine to medium SAND with some gravel
oily odor, no sheen

1

Moist, gray, gravelly SAND, with trace silt
mothball odor, no sheen

3 — penetrated upper flang of drain pipe

(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

BORING - DESCRIPTION OF SAMPLES & DATA

P2

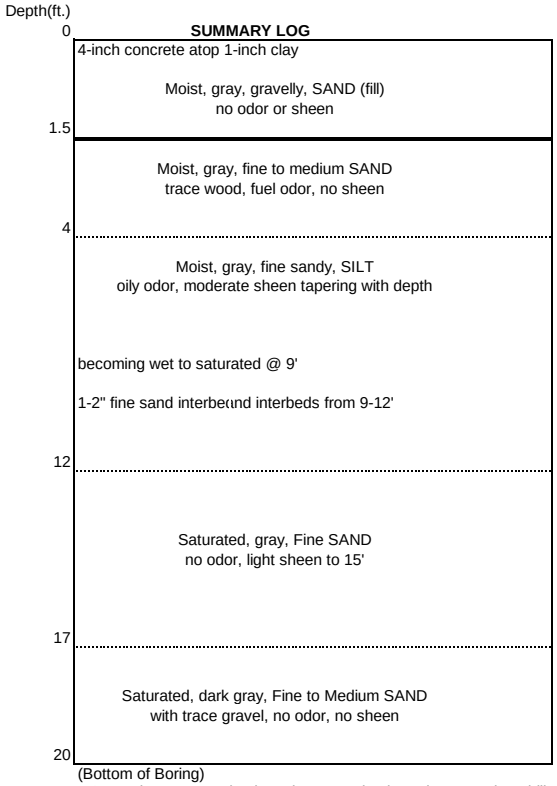
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	30		4" concrete, 1" clay
P2-A	grab @ 2'					1345	0.5-1.5' moist, gry, gravelly, SAND, no odor, no sheen
							1.5-4' moist, gry, F-M SAND, w/trace wood, fuel odor, no sheen
				4-8	48		4-8' moist, F sandy, SILT, oily odor, moderate sheen tapering with depth
P2-B	grab @ 5'		A1, A2, A3			1350	
P2-C	grab @7.5'					1355	
				8-12	48		8-9' as above
P2-D	grab @ 10'		A1, A2, A3			1400	9-12' wet-sat, gry, F sandy, SILT, w/occ 1-2" sand interbeds
							no odor, light sheen
				12-16	48		12-15' sat, gry, F sand, w/light sheen
P2-E	grab @ 15'		A1, A2, A3			1405	15-16' sat, gry, silty, F SAND, no odor, light sheen
				16-20	48		16-17' as above
P2-F	grab @ 17'				piston	1410	17-20' sat, dk gry, F-M SAND, w/trace gravel, no odor, no sheen
P2-G	grab @ 19.5'					1415	

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

BORING - DESCRIPTION OF SAMPLES & DATA

P3

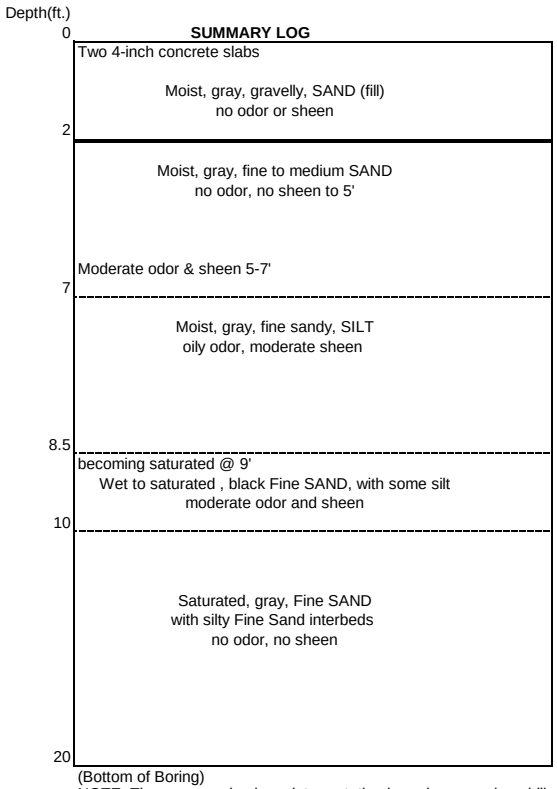
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	24		2 x 4" concrete
P3-A	grab @ 2'					1300	1-2' Wet, mot gry, gravelly, SAND, slight odor, no sheen
							2-3' moist, gry, F-M SAND, no odor, no sheen
				4-8	48		4-5' as above
P3-B	grab @ 5'		A1, A2, A3			1305	5-7' Wet, blk, F-M SAND, w/moderate odor and sheen
P3-C	grab @7.5'					1310	7-8' Wet, blk, F sandy, SILT
				8-12	48		8-8.5' as above
P3-D	grab @ 10'		A1, A2, A3			1315	8.5-10' Wet-sat, blk, F SAND, w/some silt, moderate odor, sheen
							10-12' Sat, gry-bwn, interbedded F sandy SILT & F SAND, sl odor, no shn
				12-16	48		12-16' Sat, gry, silty, F SAND, no odr, no sheen
P3-E	grab @ 15'		A1, A2, A3			1320	
				16-20	48		16-20' Sat, gry, F SAND, w/ 6"silty F SAND interbeds, no odr, no shn
P3-F	grab @ 17'				piston	1325	
P3-G	grab @ 19.5'					1330	

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

BORING - DESCRIPTION OF SAMPLES & DATA

P4

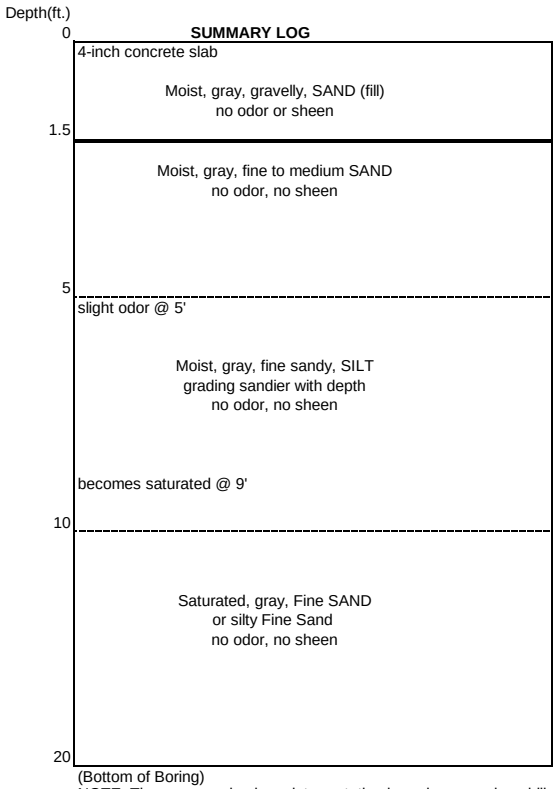
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	48		4" concrete
P4-A	grab @ 2.5'					0815	1-1.5' Wet, dk gry, gravelly, silty, SAND, no odor, no sheen
							1.5-4' moist, gry, F-M SAND, no odor, no sheen
				4-8	40		4-5' as above
P4-B	grab @ 5'		A1, A2, A3			0820	5-6' Wet, gry, F sandy, SILT, w/thin roots, slight odor, no sheen
							6-8' Wet, gry, silty F SAND, no odor, no sheen
				8-12	48		8-10' wet to sat, gry, F sandy SILT, no sheen noodor
P4-C	grab @ 10'		A1, A2, A3			0825	10-10.5' Sat, gry, F-M SAND
							10.5-12' Sat, gry, silty, F SAND, no odor, no sheen
				12-16	48		12-14' as above
P4-D	grab @ 12.5'					0830	14-15' sat, gry, F SAND
P4-E	grab @ 15'		A1, A2, A3			0835	15-16' wet, gry silty, F SAND, no odor no sheen
				16-20	48		16-20' Sat, gry, silty, F SAND, no odor, no sheen
					piston		poor sample recovery, sleeve shattered

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

BORING - DESCRIPTION OF SAMPLES & DATA

P5

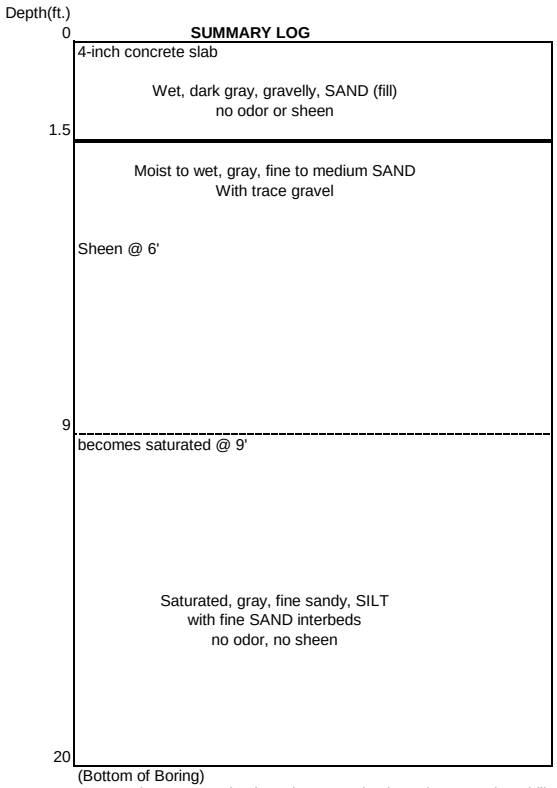
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	30		4" concrete, 1" clay
P5-A	grab @ 2'					1215	1-1.5' Wet, dk gry, gravelly, silty, SAND, no odor, no sheen
							1.5-4' moist to wet, gry, F-M SAND w/trace gravel, odor, no sheen
				4-8	18		4-8' as above, grading siltier, increasing sheen
P5-B	grab @ 6'		A1, A2, A3			1220	poor recovery
				8-12	40		8-9' as above, slight odor
P5-C	grab @ 10'		A1, A2, A3			1225	9-12' sat, gry-bwn, F sandy, SILT, w/thin sand interbeds
							no odor, no sheen
				12-16	48		12-16' as above with trace organics, no odor, no sheen
P5-D	grab @ 12.5'					1230	
P5-E	grab @ 15'		A1, A2, A3			1235	
				16-20	48	1240	16-20' sat, gry-bwn, F sandy SILT, with 6" F SAND interbeds
P5-F	grab @ 17.5'				piston	1245	no odr, no sheen
P5-G	grab @ 19.5'						

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

BORING - DESCRIPTION OF SAMPLES & DATA

P6

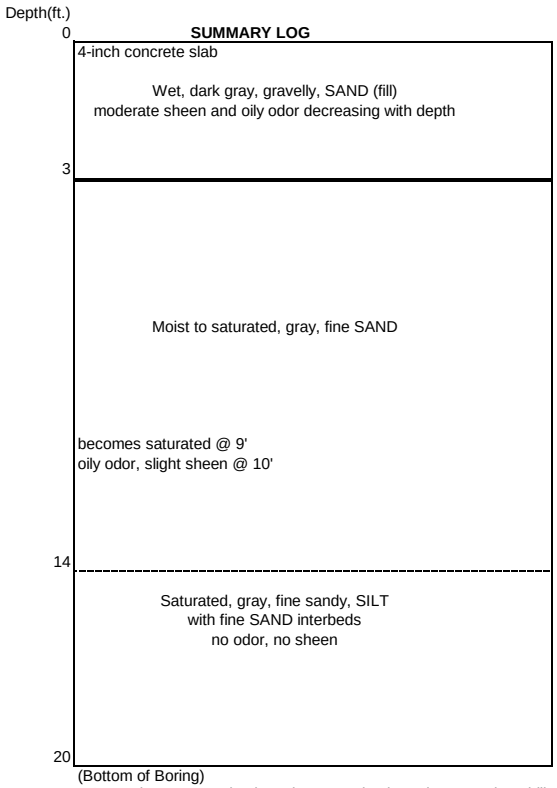
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	36		4" concrete
P6-A	grab @ 0.5'					1135	0.5-1.5' moist, blk, gravelly, SAND, stained, moderate sheen, odor
P6-B	grab @ 2.5'					1140	1.5-3' moist, mot bwn, gravelly, silty SAND, slight oil odor
							3-4' moist, mot gry, F-M SAND, slight odor, no sheen
				4-8	36		4-6' as above
P6-C	grab @ 5'		A1, A2, A3			1145	6-8' moist to we, gry, F SAND, no odor, no sheen
P6-D	grab @ 7.5'					1150	
				8-12	48		8-10.5 as above becoming sat
P6-E	grab @ 10'		A1, A2, A3			1155	10.5-12' sat, gry-blk, F SAND, w/trace silt, organics
							moderate odor, sheen
				12-16	48		12-14' as above
P6-F	grab @ 12.5'					1200	14-16' wet, gry-bwn, F sandy, SILT, no odor, no sheen
P6-G	grab @ 15'		A1, A2, A3			1205	
				16-20	48	1210	16-18' as above w/trace organics
P6-H	grab @ 17.5'				piston	1220	19-10' sat, gry-bwn, F sandiy SILT w/ F SAND interbeds
P6-I	grab @ 19.5'						no odor, no sheen

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

BORING - DESCRIPTION OF SAMPLES & DATA

P7

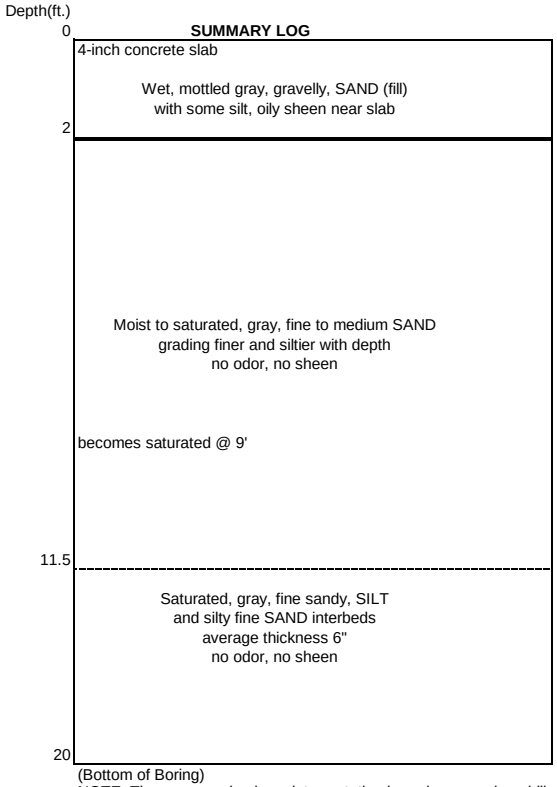
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	40		4" concrete
P7-A	grab @ 0.5'					0900	0.5-2.0' moist, mot gry, gravelly, SAND w/some silty, oily sheen near slab contact
P7-B	grab @ 2.5'					0905	2-4' moist, gry, F-M SAND, no odor, no sheen
				4-8	48		4-7.5' as above
P7-C	grab @ 5'		A1, A2, A3			0910	7.5-8' wet gry, silty, F SAND, no odor, no sheen
P7-D	grab @ 7.5'					0915	
				8-12	48		8-11.5' as above becoming sat
P7-E	grab @ 10'		A1, A2, A3			0920	11.5-12' wet, gry, F sandy, SILT, no odor no sheen
				12-16	48		12-13' as above
P7-F	grab @ 12.5'					0925	13-16' wet to sat, gry, alternating layers of silty F SAND with F sandy SILT
P6-G	grab @ 15'		A1, A2, A3			0930	average thickness of beds 6", no odor, no sheen
				16-20	48	0935	16-20' as above, no odr, no sheen
P7-H	grab @ 17.5'				piston	0940	
P7-I	grab @ 19.5'						

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and

BORING - DESCRIPTION OF SAMPLES & DATA

P8

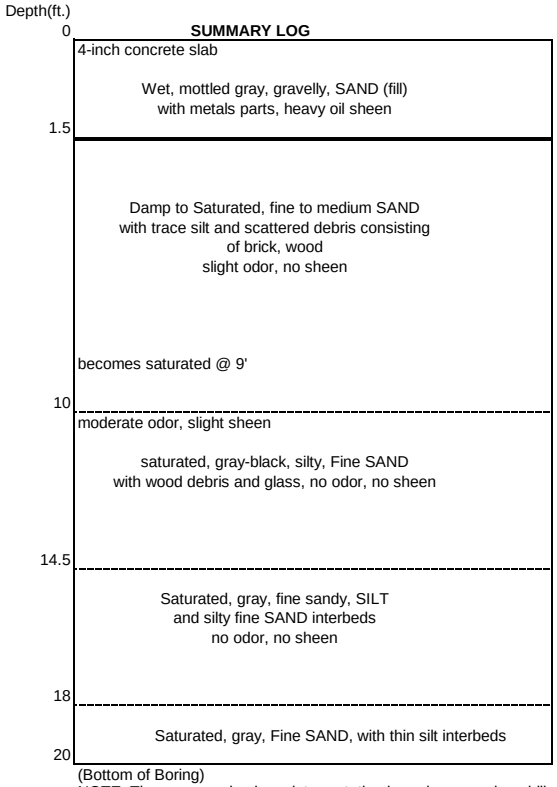
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	40		4" concrete
P8-A	grab @ 0.5'		A1, A2, A3			1000	0.5-1.5' wet, mot gry, gravelly, SAND, w/metal parts, oily odor, heavy sheen
P8-B	grab @ 2.5'					1005	1.5-4' damp, gry, F-M SAND, no odor, no sheen
				4-8	48		4-8' moist-wet, gry, F-M SAND, w/trace silt, brick, gravel
P8-C	grab @ 5'		A1, A2, A3			1010	slight odor, no sheen
P8-D	grab @ 7.5'					1015	
				8-12	48		8-10' as above becoming sat
P8-E	grab @ 10'		A1, A2, A3			1020	10-12' sat gry, silty F SAND, w/wood debris, moderate odor, slight sheen
				12-16	48		12-14.5' as above with glass, wood debris, no odor, no sheen
P8-F	grab @ 12.5'					1025	14.5-16' sat, gry-blk, F sandy, SILT, w/trace organics, no sheen
P8-G	grab @ 15'		A1, A2, A3			1030	
				16-20	48	1035	16-18' as above, no odr, no sheen
P8-H	grab @ 17.5'				piston	1040	18-20' sat, gry, F SAND, w/thin silt interbeds, no odor, no sheen
P8-I	grab @ 19.5'						

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and

BORING - DESCRIPTION OF SAMPLES & DATA

P9

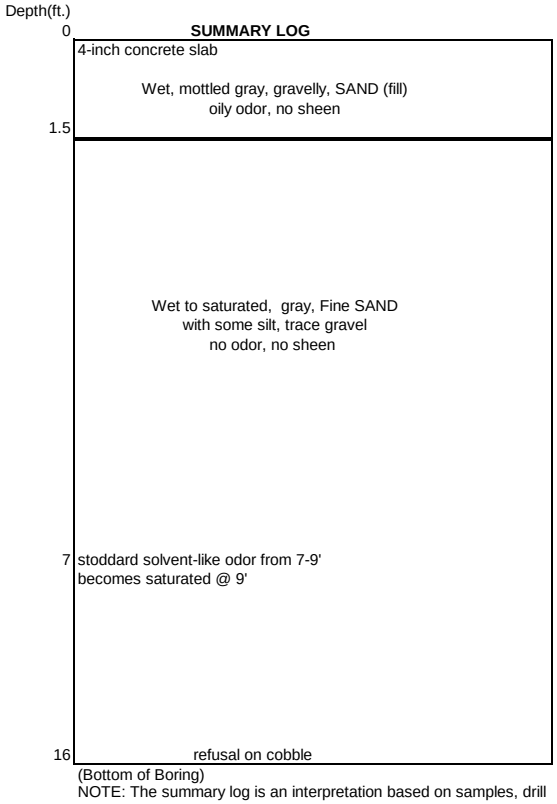
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.):
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion

Ground Surface: Concrete Slab
Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	30		4" concrete, 1" clay
P9-A	grab @ 2'		A1, A2, A3			1430	0.5-1.5' wet, mot gry, gravelly, SAND, oily odor, no sheen
							1.5-4' moist, gry, F SAND, w/trace gravel, coal, no odor, no sheen
				4-8	30		4-8' as above becoming wet
P9-B	grab @ 6'		A1, A2, A3			1435	stoddard solvent odor from 6.5-8'
				8-12	48		8-9' as above becoming sat
P9-C	grab @ 10'		A1, A2, A3			1440	9-12' sat, gry, F SAND, with some silt, no odor, no sheen
P9-D	grab @ 12'		A1, A2, A3			1445	refusal on cobble, debris blocking boring.

Testing Notes: Analytical
A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and

BORING - DESCRIPTION OF SAMPLES & DATA

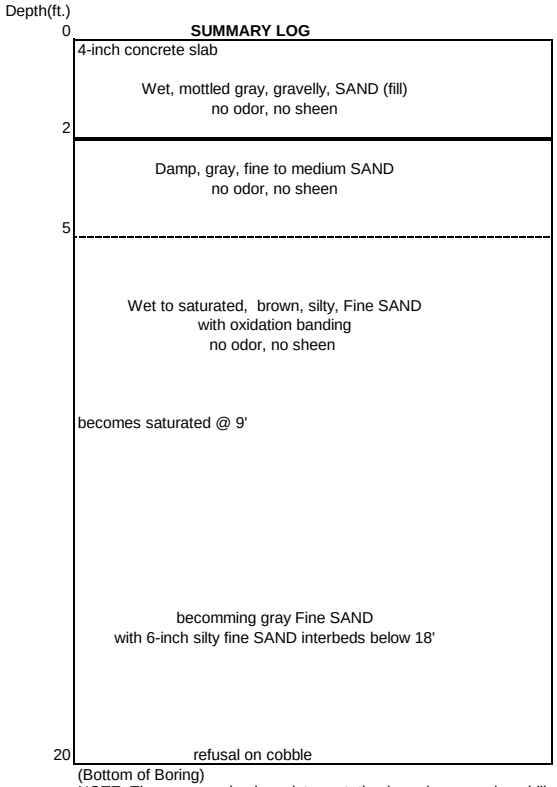
P10

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: AMS 9630 Power Probe
Size/Type Casing: 2"

Location: 7152 1st Ave. S, Seattle, WA
Elevation (Ft.): Ground Surface: Concrete Slab
Date Completed: 7/21/08
Weather: Sunny 80F
Hammer Type: Percussion Sampler Type: 4' long x 2" dia. Macro Core w/ acrylic sleeve

Spl.No.	Type sample saved	Drill Action	Testing	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
		smooth		0-4	30		6" concrete
P10-A	grab @ 2'					1515	0.5-2.0' moist, mot gry-bwn, gravelly, SAND, no odor, no sheen
							2.0-4' damp, gry, F-M SAND, no odor, no sheen
				4-8	48		4-5' as above,thin gravel layer @ 5', no odor, no sheeen
P10-B	grab @ 5'		A1, A2, A3			1520	5-8' moist to wet, bwn, silty, F SAND
P10-C	grab @ 7.55'					1525	
				8-12	48		8-12' wet to sat, bwn, silty F SAND, w/oxidation banding, no odor sheen
P10-D	grab @ 10'		A1, A2, A3			1530	
				12-16	0		no recovery, gravel blocking cutter head
				16-20	48		16-20' sat, gry, F SAND, with 6" silty F SAND interbeds below 18'
P10-E			A1, A2, A3		piston	1535	no odor, no sheen
P10-F						1540	

Testing Notes: Analytical A1 - NWTPH-DX
A2 - PCBs
A3 - Lead



NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and

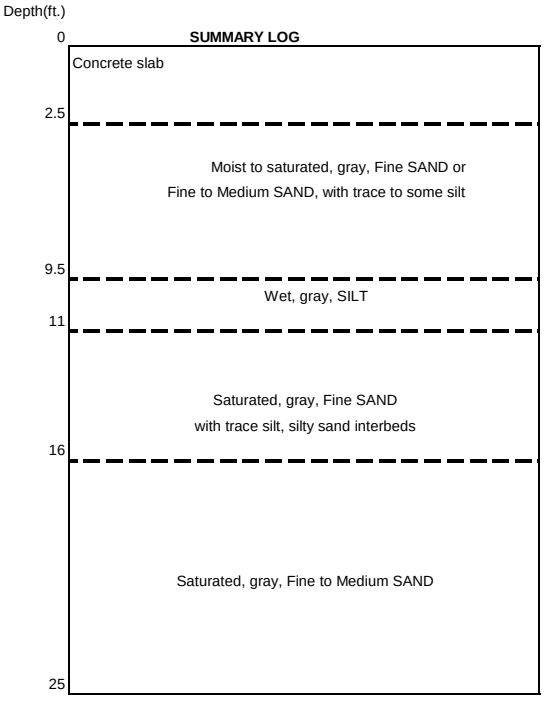
BORING - DESCRIPTION OF SAMPLES & DATA

P11

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200029 E1269977 NAD83/96
Elevation (Ft.): Ground Surface: Concrete
Date Completed: 11/17/14
Weather: Clear 40F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		4" Concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
							1.0-1.3' old concrete slab
P11-SO-2	1.5-2.5	126	MO/NS			1105	1.3-2.5' Moist, mot gry, silty, F SAND, w/ metal, oily odor
P11-SO-4	3.0-4.5	1.9	NO/NS			1120	2.5-5' Moist, gry, F-M SAND
				5-10	50		5-9.5' Wet-sat, gry, F SAND, w/trace to some silt
P11-SO-7	6-8	0.8	NO/NS			1130	9.5-10' Wet, gry, SILT
P11-SO-10	9.5-11	0.8	NO/NS			1140	
				10-15	60		10-11' wet, bwn-gry, SILT, w/some organics
P11-SO-13	12-14	1.0	NO/NS			1320	11-15' Sat, gry, F SAND, w/trace silt, silty sand interbeds
				15-20	50		15-16' As Above
P11-SO-16	15-17	0.5	NO/NS			1330	16-20' Sat, gry, F-M SAND
				20-25	60		20-25' As Above
P11-SO-22	21-23	0.6	NO/NS			1340	



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 6-10' below ground surface consisting of SS hydropunch.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 9' bgs.
Sample taken: ICS-P11-W-111714 @ 1300

Groundwater parameters:
Temperature - 13.2C
pH - 6.8
Conductivity - 741 uS/cm
Turbidity - 22.8 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

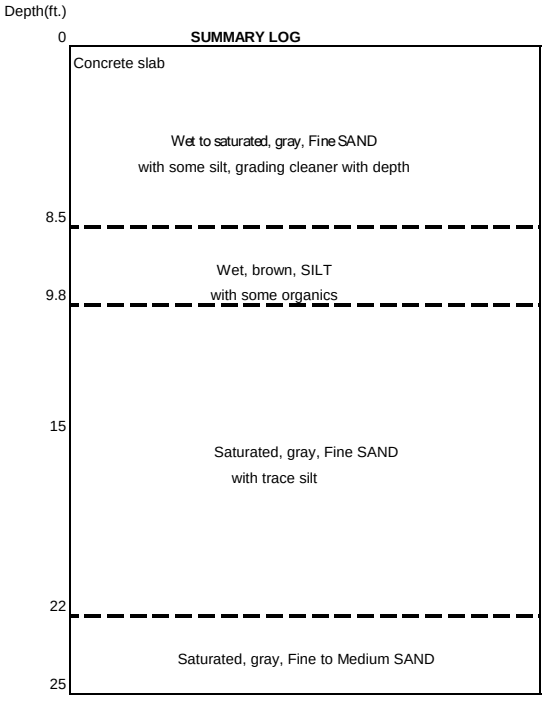
BORING - DESCRIPTION OF SAMPLES & DATA

P12

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200103 E1269981 NAD83/96
Elevation (Ft.): Ground Surface: Concrete
Date Completed: 11/17/14
Weather: Clear 30F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		4" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P12-SO-4	3.0-4.5	2.1	NO/NS			0820	4.5-5' Wet, gry, F SAND, w/some silt
				5-10	50		5-8.5' As Above, grading to cleaner F SAND
P12-SO-7	6.0-8.0	0.9	NO/NS			0830	8.5'-9.8' Wet, bwn, SILT, w/some organics
P12-SO-10	9.8-11.0	0.3	NO/NS			0840	9.8-10' Sat, gry, F SAND, w/trace to some silt
				10-15	60		10-15' As Above
P12-SO-13	12.0-14.0	0.3	NO/NS			1010	
P12-SO-DUP1	Duplicate of above					1015	
				15-20	60		15-20' Sat, gry, F SAND, w/trace silt
P12-SO-16	15.0-17.0	0.2	NO/NS			1020	
				20-25	60		20-22' As Above
P12-SO-22	21.0-23.0	0.1	NO/NS			1030	22-25' Sat, gry, F-M SAND, w/scattered organics



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 5-9' below ground surface consisting of SS hydropunch.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 9' bgs.
Sample taken: ICS-P12-W-111714 @ 1000

Groundwater parameters:
Temperature - 14.8C
pH - 6.8
Conductivity - 1510 uS/cm
Turbidity - 40.1 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

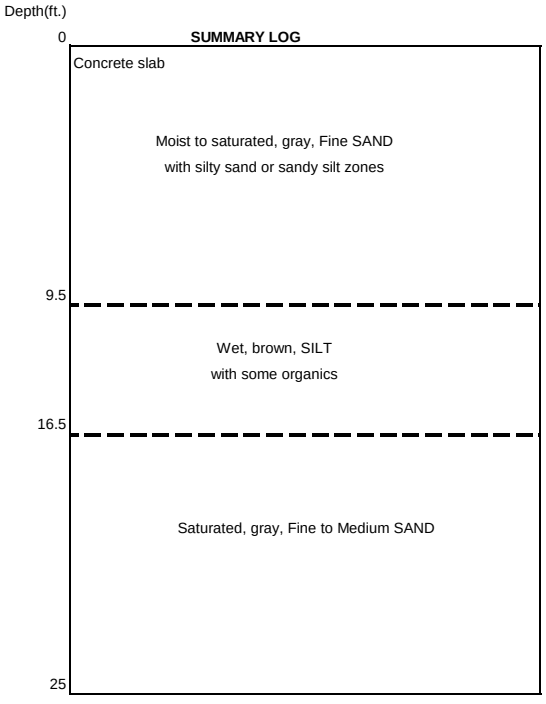
P13

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200118 E1269928
Elevation (Ft.):
Date Completed: 11/13/14
Weather: Clear 45F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		4" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P13-SO-4	4.0-6.0	3.5	MO/NS			0840	4-5' Moist, mot bwn, silty, SAND, w/roots
				5-10	60		5-8.5' Moist, gry, F SAND
P13-SO-7	6.0-8.0	1.5	MO/NS			0850	8.5-9.5' Wet, bwn, F sandy, SILT
P13-SO-10	9.5-11.0	1.5	NO/NS			0900	9.5-10' Sat, gry, F SAND
				10-15	55		10-12' As Above
P13-SO-13	12.0-14.0	0.8	NO/NS			0910	12-15' Wet, bwn, SILT, w/some organics
				15-20	50		15-16.5' As Above
P13-SO-17	16.5-18.0	1.0	NO/NS			1010	16.5-20' Sat, gry, F-M SAND, w/silt interbeds
				20-25	50		20-25' Sat, gry, F-M SAND
P13-SO-22	21.0-23.0	0.6	NO/NS			1020	



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 10-15' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 14 bgs.
Sample taken: ICS-P13-W-111314 @ 1000

Groundwater parameters:
Temperature - 15.1C
pH - 6.8
Conductivity - 1138 uS/cm
Turbidity - 73 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

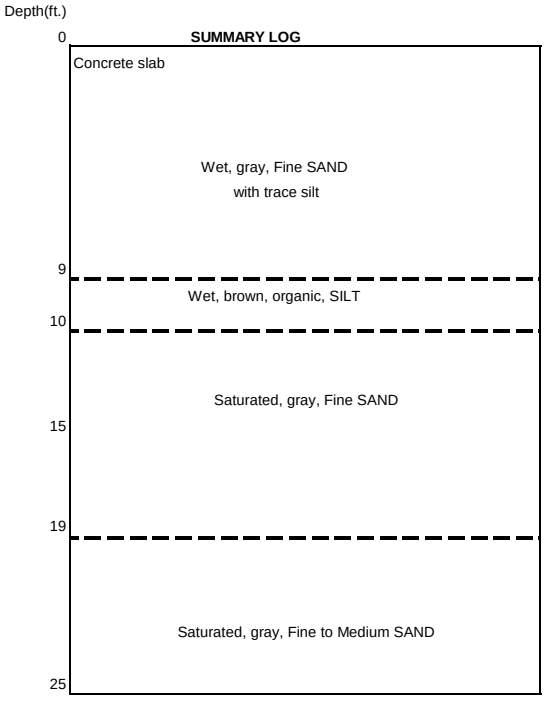
P14

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200170 E1269882
Elevation (Ft.):
Date Completed: 11/14/14
Weather: Clear 40F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	48		4" slab, 6" pea gravel, 2" concrete
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P14-SO-4	3.0-5.0	13.7	NO/NS			1050	
				5-10	50		5-9' Wet, gry, F SAND, w/trace silt
P14-SO-7	6.0-8.0	0.3	NO/NS			1100	9-10' Wet, bwn, organic, SILT
P14-SO-10	10.0-11.5	1.4	NO/NS			1110	
				10-15	55		10-12' Sat, gry, interbedded silty SAND / F SAND
P14-SO-13	12.0-14.0	0.6	NO/NS			1120	12-15' Sat, gry, F SAND
				15-20	40		15-19' As Above
P14-SO-16	15.0-17.0	0.1	NO/NS			1210	19-20' Sat, gry, F-M SAND
				20-25	50		20-25' As Above
P14-SO-22	21.0-23.0	0.1	NO/NS			1220	



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 10-15' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 14' bgs.
Sample taken: ICS-P14-W-111414 @ 1200

Groundwater parameters:
Temperature - 12.7C
pH - 6.7
Conductivity - 1575 uS/cm
Turbidity - 44.2 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

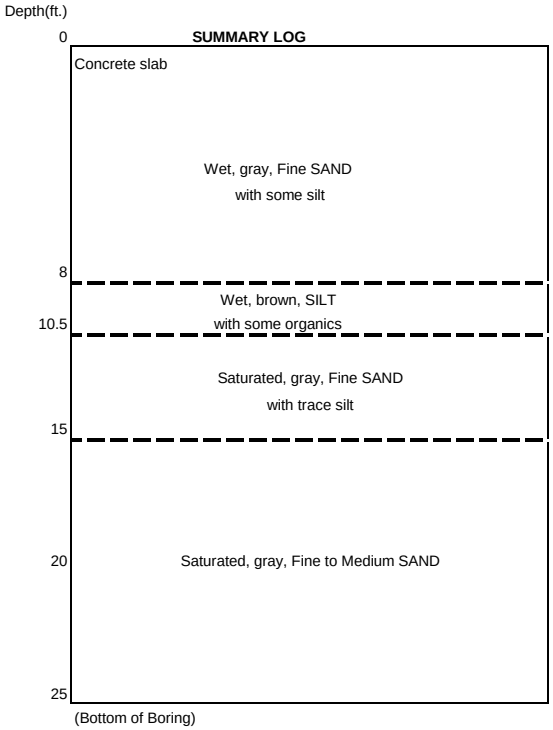
BORING - DESCRIPTION OF SAMPLES & DATA

P15

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200186 E1269923
Elevation (Ft.): Ground Surface: Concrete
Date Completed: 11/14/14
Weather: Clear 40F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	40		6" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
							1.5-4' Wet, gry, F-M SAND
P15-SO-4	3.0-4.5	13.8	NO/NS			1330	4-5' Wet, gry, F SAND, w/some silt
				5-10	60		5-7' Wet-sat, gry, F SAND, w/some silt
P15-SO-7	6.0-8.0	0.7	NO/NS			1340	7-8' Sat, gry, F SAND
P15-SO-10	8.5-10.0	1.5	NO/NS			1350	8-10' Wet, bwn, SILT, w/some organics to 9.5'
				10-15	55		10-10.5' Wet, gry, SILT
P15-SO-13	12.0-14.0	1.2	NO/NS			1510	10.5-11' Sat, gry, silty, F SAND
							11-15' Sat, gry, F SAND, w/trace silt
				15-20	60		15-20' Sat, gry, F-M SAND
P15-SO-16	15.0-17.0	0.2	NO/NS			1520	
				20-25	60		20-25' As Above
P15-SO-22	21.0-23.0	0.2	NO/NS			1530	



NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 3-8' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 7' bgs.
Sample taken: ICS-P15-W-111414 @ 1500

Groundwater parameters:
Temperature - 13.6C
pH - 6.6
Conductivity - 1847 uS/cm
Turbidity - 9.8 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

P16

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

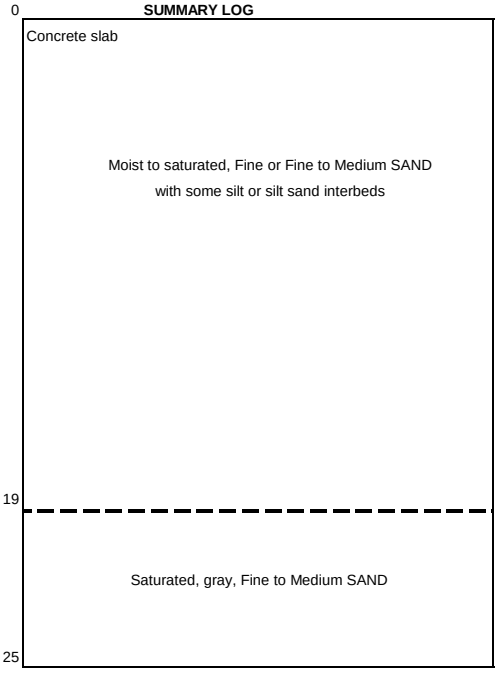
Location: N200228 E1270120 NAD83/96
Elevation (Ft.):
Date Completed: 12/10/14
Weather: Rain 60F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		5" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
							1-4' Moist, bwn, F-M SAND
P16-SO-4	3.0-4.0	1.6	NO/NS			1200	4-5' Moist, bwn, F SAND, w/some silt
				5-10	55		5-6.5' As Above
P16-SO-7	6.0-8.0	1.1	NO/NS			1210	6.5-10' Wet-sat, gry, F SAND, w/silty sand interbeds
P16-SO-10	9.0-10.0	0.9	NO/NS			1220	
				10-15	55		10-15' Sat, gry, silty, F SAND
P16-SO-13	12.0-14.0	1.1	NO/NS			1230	
				15-20	60		15-19' sat, gry, F SAND, w/some silt
P16-SO-16	15.0-17.0	0.1	NO/NS			1415	19-20' Sat, gry, F-M SAND
				20-25			20-25' As Above
P16-SO-22	21.0-23.0	0.8	NO/NS		60	1430	

Depth(ft.)

0 **SUMMARY LOG**



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 9-14' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 13' bgs.
Sample taken: ICS-P16-W-121014 @ 1400

Groundwater parameters:
Temperature - 14.1C
pH - 7.0
Conductivity - 1943 uS/cm
Turbidity - 575 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

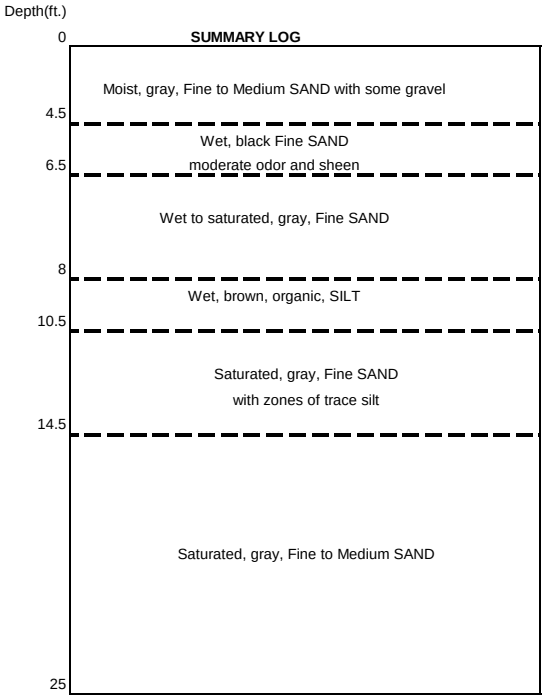
P17

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200289 E1269833 NAD83/96
Elevation (Ft.):
Date Completed: 11/12/14
Weather: Clear 45F
Hammer Type: Direct push

Ground Surface: Blackberry bushes
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	12		Post holed 3' near gas line
	4.0	0.5	NO/NS				0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P17-SO-4	4.5-6.5	178	STO/MS			1435	4.5-5' Wet, black, F SAND
				5-10	60		5-6.5 As Above
P17-SO-7	6.7-8.0	5.8	NO/NS			1445	6.5-6.7' Thin SILT interbed
							6.7-8' Sat, gry, F SAND
P17-SO-10	9.0-11.0	0.9	NO/NS			1455	8-10' Wet, bwn, organic, SILT
				10-15	60		10-10.5' As Above
P17-SO-13	12.0-14.0	0.8	NO/NS			1505	10.5- 14.5' Sat, gry, F SAND, w/zones of trace silt
							14.5-15' Sat, gry, F-M SAND
				15-20	60		15-20' As Above
P17-SO-16	15.0-17.0	0.6	NO/NS			1515	
				20-25	60		20-25' As Above
P17-SO-22	21.0-23.0	0.6	NO/NS			1525	



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: No groundwater sample was obtained.

Completed boring backfilled with granular bentonite

Abbreviations:

gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

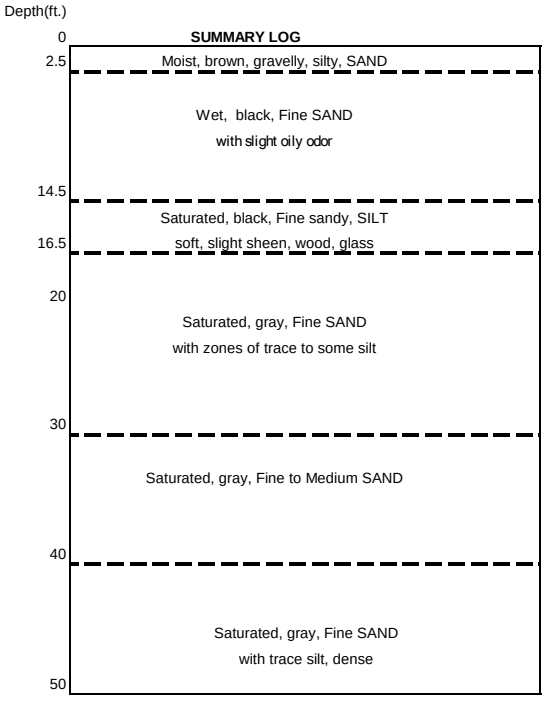
P18

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N200176 E1270073 NAD83/96
Elevation (Ft.):
Date Completed: 12/16/14
Weather: Cloudy 45F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	48		4" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P18-SO-4	3.0-5.0	152	STO/NS			0815	2.5-5' Moist, gry-blk, F SAND
				5-10	52		5-10' As above, becoming wet, scattered wood, staining
P18-SO-7	6.0-8.0	44.0	SLO/NS			0825	slight oily odor
P18-SO-10	9.0-10.0	56.0	SLO/NS			0835	
				10-15	60		10-14' As above
P18-SO-13	12.0-14.0	15.8	SLO/NS			0845	14-14.5' Wet, bwn-blk, silty, SAND, w/wood
							14.5-15' Sat, blk F sandy, SILT, soft, glass, slight sheen
				15-20	30		15-16 Sat, blk, F sandy, SILT / silty, F SAND, w/wood
P18-SO-16	14.0-16.0	3.0	SLO/SS			0855	16-16.5' Wood core
							16.5-20' Sat, gry, F SAND
				20-25	60		20-22' As above
P18-SO-22	21.0-23.0	3.6	NO/NS			0905	22-25' Sat, gry, F SAND, w/zones of trace to some silt
				25-30	60		25-30' Sat, gry, F SAND, w/trace silt
P18-SO-32	31.0-33.0	2.4	NO/NS	30-35	50		30-35' Sat, gry, F-M SAND
						1100	
				35-40	50		35-40' As above grading finer
P18-SO-42	41.0-43.0	2.9	NO/NS	40-45	60	1115	40-45' Sat, gry, F SAND, w/trace silt, dense
P18-SO-50	49.0-50.0	2.6	NO/NS	45-50	60	1130	45-50' As above



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 25-30' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 29' bgs.
Sample taken: ICS-P18-W-A-121614 @ 1030

Groundwater parameters:
Temperature - 12.6C
pH - 7.0
Conductivity - 2690 uS/cm
Turbidity - 275 ntu

Temporary Screen set @ 45-50' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 49' bgs.
Sample taken: ICS-P18-W-B-121614 @ 1300

Groundwater parameters:
Temperature - 13.0C
pH - 6.9
Conductivity - 8,610 uS/cm
Turbidity - 51.9 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

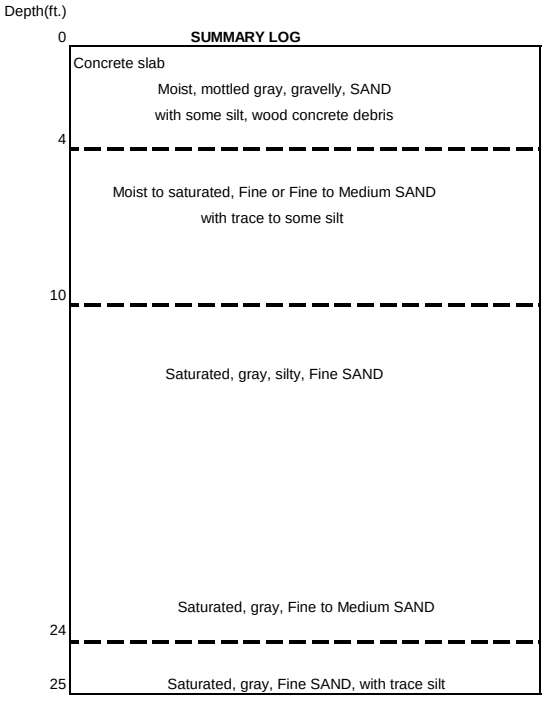
P19

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N200102 E1270073 NAD83/96
Elevation (Ft.):
Date Completed: 12/16/14
Weather: Cloudy 45F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		5" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P19-SO-4	3.0-4.0	4.9	NO/NS			1340	4-5' Wet, gry, F SAND, w/some silt
				5-10	60		5-10' Wet-sat, gry, F SAND, w/trace silt
P19-SO-7	6.0-8.0	0.8	NO/NS			1350	organics @ 6'
P19-SO-10	9.0-10.0	0.7	NO/NS			1400	
				10-15	50		10-15' Sat, gry, silty, F SAND, soft
P19-SO-13	12.0-14.0	0.7	NO/NS			1410	
				15-20	55		15-20' As above, organics @ 18.5'
P19-SO-16	15.0-17.0	0.9	NO/NS			1420	
				20-25	60		20-24' As Above
P19-SO-22	21.0-23.0	1.3	NO/NS			1430	24-25' Sat, gry, F SAND, w/trace silt



NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: No groundwater sample was obtained.

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

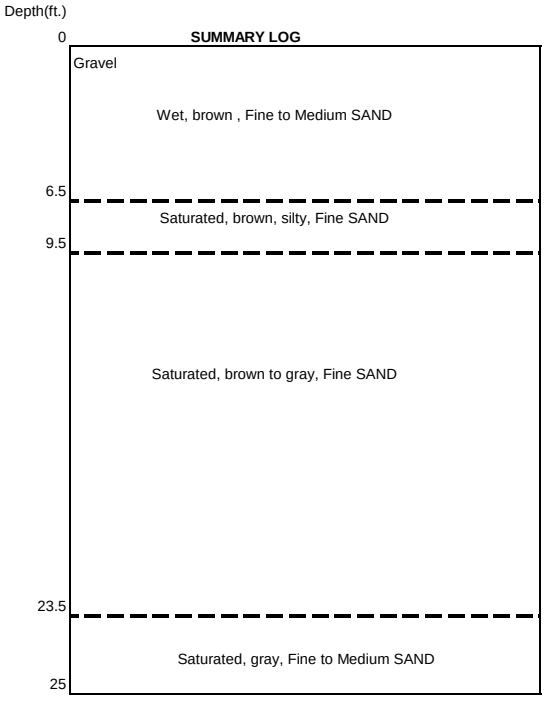
P20

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200131 E1270134 NAD83/96
Elevation (Ft.):
Date Completed: 11/12/14
Weather: Clear 40F
Hammer Type: Direct push

Ground Surface: Gravel
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	40		0-1.5' Wet, gry, silty, SAND, w/some gravel
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P20-SO-3	2.0-4.0	0	NO/NS			1035	
				5-10	60		5-6.5' AS Above
P20-SO-7	6.5-8.0	0.1	NO/NS			1045	6.5-9.5' Sat, bwn, silty, F SAND, w/trace organics, roots
P20-SO-10	9.5-11.0	0.1	NO/NS			1055	9.5-10' Sat, bwn, F SAND, w/trace silt
				10-15	60		10-14' As above gray
P20-SO-13	12.0-14.0	0.2	NO/NS			1105	14-15' Sat, gry, F SAND
				15-20	60		15-20' As Above
P20-SO-16	15.0-17.0	0.1	NO/NS			1115	
				20-25	60		20-23.5' As Above
P20-SO-22	21.0-23.0	0.1	NO/NS			1125	23.5'-25' Sat, gry, F-M SAND



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 10-15' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 14' bgs.
Sample taken: ICS-P20-W-111214 @ 1200

Groundwater parameters:
Temperature - 11.9C
pH - 6.8
Conductivity - 1142 uS/cm
Turbidity - 77 ntu

Completed boring backfilled with granular bentonite

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

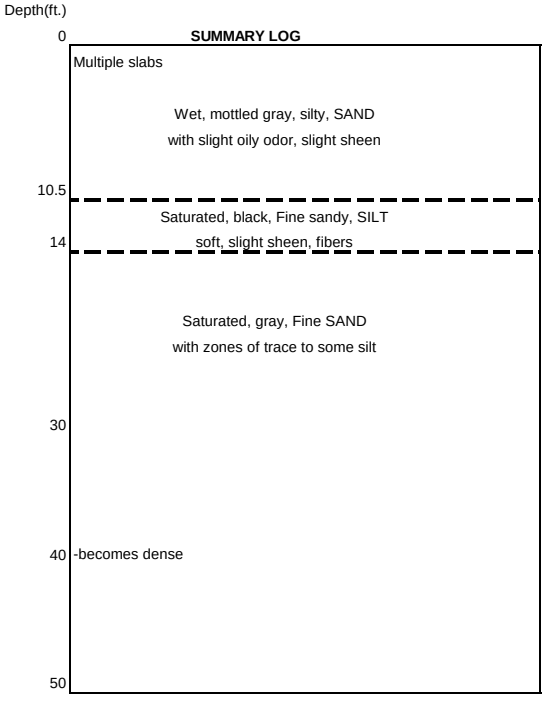
P21

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200078 E1270110 NAD83/96
Elevation (Ft.):
Date Completed: 12/08/14
Weather: Cloudy 50F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	40		4" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
							1.0-1.5' weathered concrete slab
P21-SO-4	3.0-5.0	6.8	MO/NS			1210	1.5-5' Wet, mot gry, silty, SAND, w/some gravel
				5-10	50		5-6' Wet, mot gry, gravelly, SAND, w/some silt
P21-SO-7	6.0-8.0	5.3	SLO/SS			1220	6-10' Wet, mot gry, silty, SAND, w/trace organics
P21-SO-10	9.0-11.0	1.2	SLO/SS			1230	slight odor, slight sheen
				10-15	50		10-10.5' As Above
P21-SO-13	12.0-14.0	1.1	SLO/SS			1240	10.5-14' Wet, black, F sandy, SILT, w/organics, fibers 11-12'
							14-15' Sat, gry, F SAND, w/some silt
				15-20	55		15-19' As Above
P21-SO-16	15.0-17.0	0.4	NO/NS			1250	19-20' Sat, gry, F SAND
				20-25	60		20-21' As Above
P21-SO-22	21.0-23.0	0.1	NO/NS			1300	21-25' Sat, gry, F SAND, w/some silt
				25-30	60		25-30' As Abovve
P21-SO-32	31.0-33.0	0.0	NO/NS	30-35	60	1500	30-35' Sat, gry, F SAND, w/trace silt
				35-40	40		35-40' Sat, gry, F SNAD, w/interbeds of trace to some silt
P21-SO-42	41.0-43.0	0.0	NO/NS	40-45	40	1510	40-45' As Above, dense
P21-SO-50	49.0-50.0	0.0	NO/NS	45-50	50	1520	45-50' As above, dense



NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 25-30' below ground surface consisting of 1/2" dia. SCH 40 PVC screen. Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 29' bgs. Sample taken: ICS-P21-W-A-120814 @ 1400

Groundwater parameters:
Temperature - 13.4C
pH - 6.9
Conductivity - 1163 uS/cm
Turbidity - 190 ntu

Temporary Screen set @ 45-50' below ground surface consisting of 1/2" dia. SCH 40 PVC screen. Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 49' bgs. Sample taken: ICS-P21-W-B-120814 @ 1600

Groundwater parameters:
Temperature - 13.0C
pH - 6.8
Conductivity - 10,960 uS/cm
Turbidity - 119 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

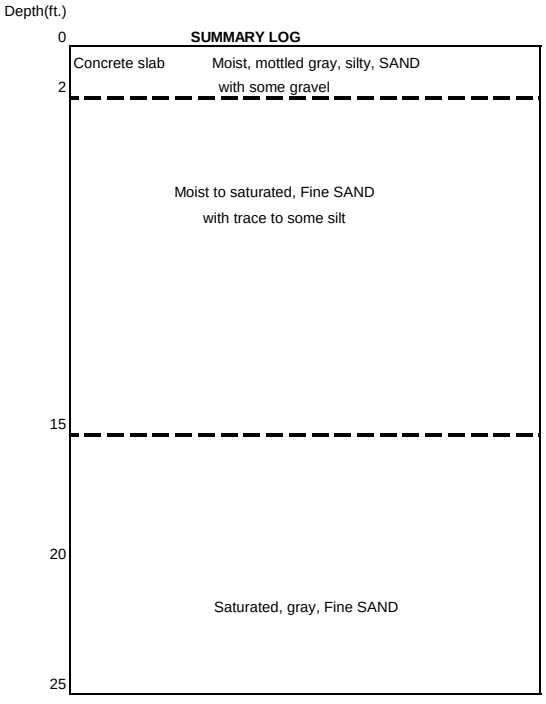
P22

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200045 E1270101 NAD83/96
Elevation (Ft.):
Date Completed: 11/14/14
Weather: Clear 35F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		4" slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P22-SO-4	3.0-4.5	0.8	NO/NS			0840	2-5' Wet, gry, F SAND, w/some silt
				5-10	50		5-10' As Above
P22-SO-7	6.0-8.0	3.0	NO/NS			0850	
P22-SO-10	9.0-11.0	1.2	NO/NS			0900	
				10-15	60		10-15' Sat, gry, F SAND, w/trace silt
P22-SO-13	12.0-14.0	1.3	NO/NS			0910	
				15-20	60		15-20' AS above
P22-SO-16	15.0-17.0	1.3	NO/NS			0920	
				20-25	60		20-25' Sat, gry, F SAND
P22-SO-22	21.0-23.0	0.4	NO/NS			0930	



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: No groundwater sample obtained.

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:

gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

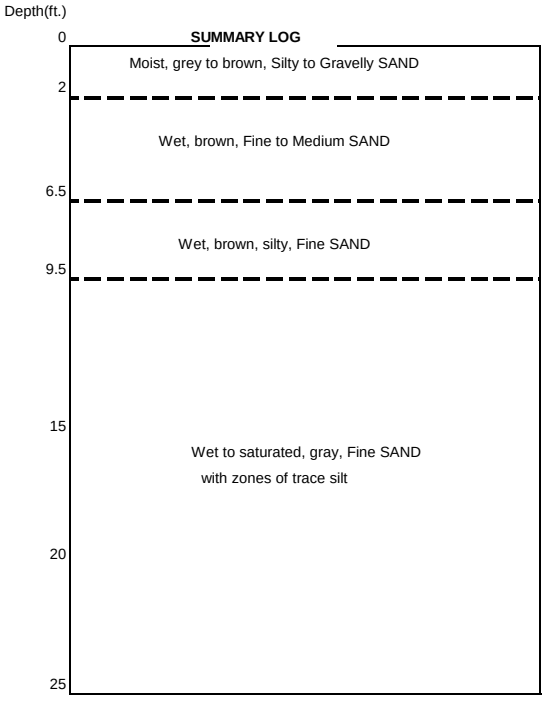
P23

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N200088 E1270159 NAD83/96
Elevation (Ft.):
Date Completed: 11/12/14
Weather: Clear 35F
Hammer Type: Direct push

Ground Surface: Gravel
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	40		0-1' Moist, gry, silty, SAND, w/some gravel
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P23-SO-3	2.0-4.0	0	NO/NS			0835	2-5' Moist, bwn F-M SAND
				5-10	60		5-6.5' As Above
P23-SO-7	6.5-8.5	0.1	NO/NS			0845	6.5-9.5' Wet, bwn, silty, F SAND, w/trace organics
P23-SO-10	9.5-11.0	0.0	NO/NS			0855	9.5-10' Wet, gry, F SAND
				10-15	60		10-15' Sat, gry, F SAND, w/zones of trace silt
P23-SO-13	12.0-14.0	0.0	NO/NS			0905	
				15-20	60		15-20' Sat, gry, F SAND
P23-SO-16	15.0-17.0	0.0	NO/NS			0915	
				20-25	60		20-24.5' As Above
P23-SO-22	21.0-23.0	0.3	NO/NS			0925	24.5-25' Sat, gry, F-M SAND



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 10-15' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 14' bgs.
Sample taken: ICS-P23-W-111214 @ 1000

Groundwater parameters:
Temperature - 10.4C
pH - 6.8
Conductivity - 728 uS/cm
Turbidity - 122 ntu

Completed boring backfilled with granular bentonite

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

P24

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

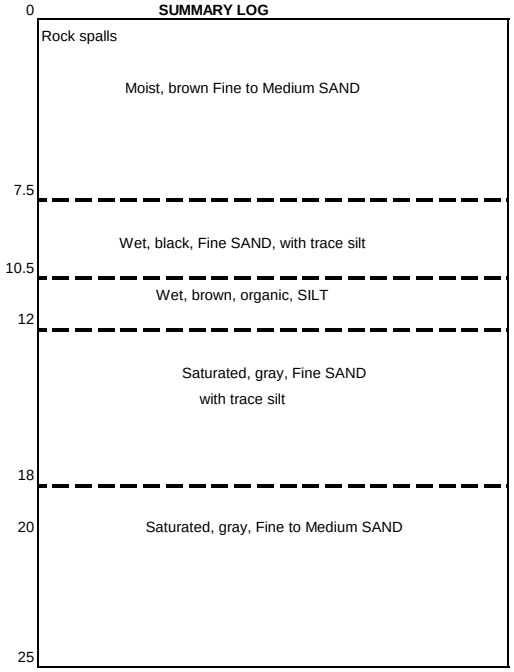
Location: N200002 E1270177 NAD83/96
Elevation (Ft.):
Date Completed: 11/13/14
Weather: Clear 45F
Hammer Type: Direct push

Ground Surface: Spalls
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		0-5' Moist, bwn, F-M SAND
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P24-SO-4	3.0-5.0	0.2	NO/NS			1600	
				5-10	60		5-7.5' As Above
P24-SO-7	6.0-7.5	0.1	NO/NS			1610	7.5-10' Wet, black, F SAND, w/trace silt
P24-SO-10	9.0-10.5	8.5	SLO/SS			1620	
				10-15	50		10-10.5' As Above becoming siltier
P24-SO-13	12.0-14.0	0.1	NO/NS			1630	10.5-12' Wet, bwn, organic, SILT, grading sandy
							12-15' Sat, gry, F SAND, w/trace silt
				15-20	55		15-18' As Above
P24-SO-16	15.0-17.0	0.1	NO/NS			1640	18-20' Sat, gry, F-M SAND
				20-25	50		20-25' As Above
P24-SO-22	21.0-23.0	0.1	NO/NS			1650	

Depth(ft.)

SUMMARY LOG



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: No groundwater sample obtained.

Completed boring backfilled with granular bentonite

Abbreviations:

gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

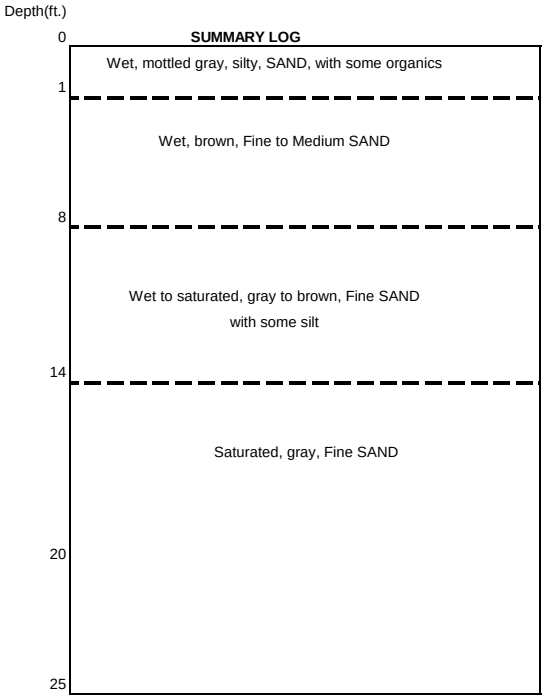
P25

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N199938 E1270191 NAD83/96
Elevation (Ft.):
Date Completed: 11/11/14
Weather: Clear 45F
Hammer Type: Direct push

Ground Surface: bare soil
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	36		0-1' Wet, mot gry, sitly, SAND, w'organics
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P25-SO-3	1.0-3.0	0	NO/NS			1405	
				5-10	60		5-8' As Above
P25-SO-7	6.0-8.0	0.1	NO/NS			1410	8-10' Wet, gry, F SAND, w/some silt
P25-SO-10	9.0-11.0	0.2	NO/NS			1420	
				10-15	60		10-14' Sat, bwn, F SAND w/some silt, soft
P25-SO-13	12.0-14.0	0.2	NO/NS			1440	14-15' Sat, gry, F SAND
				15-20	60		15-20' As Above
P25-SO-16	15.0-17.0	0.1	NO/NS			1500	
				20-25	60		20-25' As Above
P25-SO-22	21.0-23.0	0.1	NO/NS			1520	



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: No groundwater sample obtained.

Completed boring backfilled with granular bentonite

Abbreviations:

gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

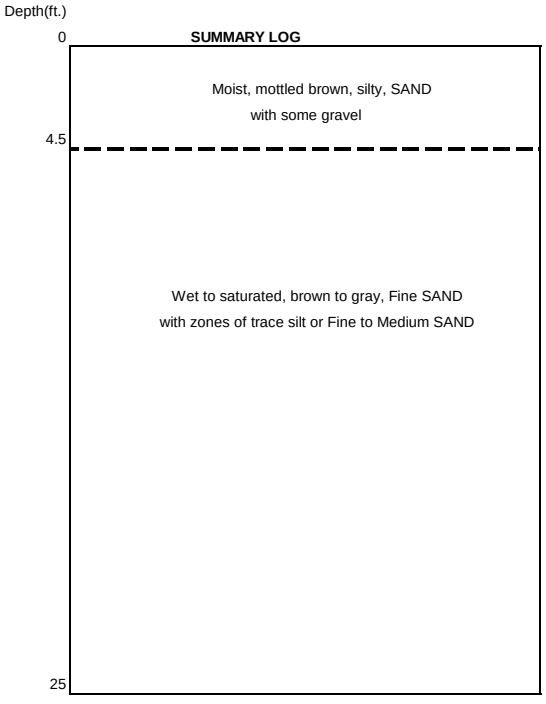
P26

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"

Location: N199981 E1270213 NAD83/96
Elevation (Ft.):
Date Completed: 11/13/14
Weather: Clear 45F
Hammer Type: Direct push

Ground Surface: Spalls
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		0-4.5' Moist, mot bwn, silty, SAND, w/some gravel
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P26-SO-4	3.0-5.0	0.1	NO/NS			1200	
				5-10	55		5-10' As Above
P26-SO-7	6.0-8.0	0.3	NO/NS			1210	
P26-SO-10	9.0-11.0	0.2	NO/NS			1220	
				10-15	55		10-15' Sat, gry, F SAND, w/trace to some silt
P26-SO-13	12.0-14.0	0.1	NO/NS			1230	
				15-20	50		15-19' Sat, gry, F SAND, w/trace silt
P26-SO-16	15.0-17.0	0.1	NO/NS			1240	19-20' Sat, gry, F-M SAND
				20-25	55		20-25' Sat, gry, F SAND, w/zones of trace silt
P26-SO-22	21.0-23.0	0.1	NO/NS			1250	



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 10-15' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 14' bgs.
Sample taken: ICS-P26-W-111314 @ 1500

Groundwater parameters:
Temperature - 12.9C
pH - 7.0
Conductivity - 13,910 uS/cm
Turbidity - 255 ntu

Completed boring backfilled with granular bentonite and

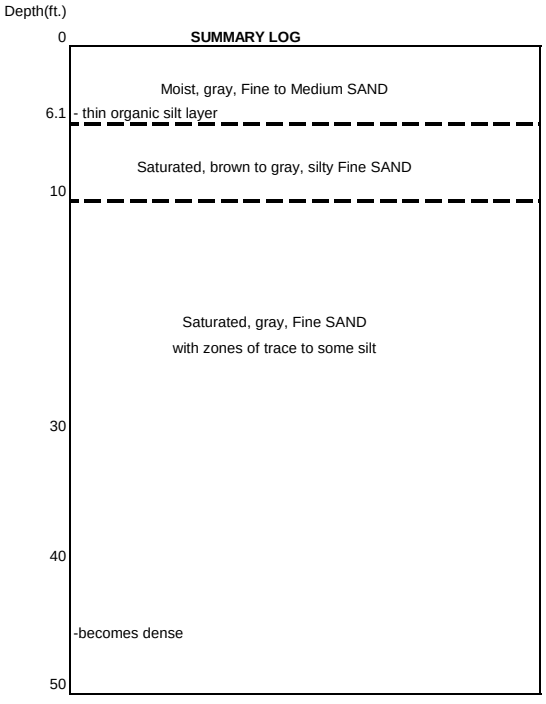
Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

P27

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Aaron
Drill Type: Geoprobe 7730DT
Size/Type Casing: 2"
Location: N199886 E1270262 NAD83/96
Elevation (Ft.):
Date Completed: 11/11/14
Weather: Clear 45F
Hammer Type: Direct push
Ground Surface: grass
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	45		0-1' Wt, bwn, gravelly, SAND, w/some silt
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P27-SO-3	1.0-3.0	0.2	NO/NS			0905	
				5-10	60		5-6' As above
P27-SO-7	6.0-8.0	0.1	NO/NS			0910	6-6.1' Wet, bwn, organic, SILT
P27-SO-10	9.0-11.0	0.1	NO/NS			0915	6.1-10' Sat, bwn-gry, silty, F SAND
				10-15	60		10-15' As Above grading sandy
P27-SO-13	12.0-14.0	0.1	NO/NS			0920	
				15-20	60		15-20' Sat, gry, F-M SAND
P27-SO-16	15.0-17.0	0.0	NO/NS			0925	
				20-25	60		20-25' Sat, gry, FSAND. w/some silt
P27-SO-22	21.0-23.0	0.0	NO/NS			1130	
				25-30	60		25-30' Sat, gry, F SAND
P27-SO-32	31.0-33.0	0.0	NO/NS	30-35	60	1135	30-35' As Above grading coarser
				35-40	60		35-40' Sat, gry, F-M SAND
P27-SO-42	41.0-43.0	0.0	NO/NS	40-45	60	1155	40-45' As above
				45-50	60		45-46' As above
							46-50' Sat, gry, F SAND, w/some silt, dense



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 15-20' below ground surface consisting of 1/2" dia. SCH 40 PVC screen. Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 19' bgs.
Sample taken: ICS-P27A-W-111114 @ 1030
Groundwater parameters:
Temperature - 12.0C
pH - 7.2
Conductivity - 10,060 uS/cm
Turbidity - 74.8 ntu

Temporary Screen set @ 45-50' below ground surface consisting of 1/2" dia. SCH 40 PVC screen. Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 49' bgs.
Sample taken: ICS-P27B-W-111114 @ 1330
Groundwater parameters:
Temperature - 10.9C
pH - 7.2
Conductivity - 12,050 uS/cm
Turbidity - 372 ntu

Completed boring backfilled with granular bentonite

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

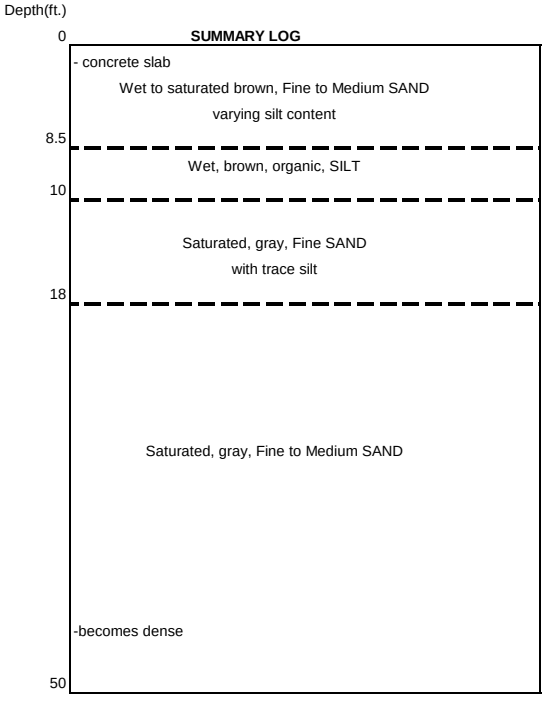
P28

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N200247 E1269824 NAD83/96
Elevation (Ft.):
Date Completed: 12/15/14
Weather: Clear 45F
Hammer Type: Direct push

Ground Surface: Concrete
Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		4" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
							1.5-3' Wet, gry, F SAND, w/some silt
P28-SO-4	3.0-5.0	10.1	SLO/NS			1230	3-5' Wet-sat, mot gry, F-M SAND
				5-10	60		5-8.5' Sat, gry, F SAND
P28-SO-7	6.0-8.0	8.4	NO/NS			1240	8.5-10' Wet, bwn, organic, SILT
P28-SO-10	8.5-10.0	2.3	NO/NS			1250	
				10-15	40		10-15' Sat, gry, F SAND, w/trace silt
P28-SO-13	12.5-13.5	3.1	NO/NS			1300	
				15-20	50		15-18' As Above
P28-SO-16	15.0-17.0	3.3	NO/NS			1310	18-20' Sat, gry, F-M SAND, scattered wood
				20-25	50		20-25' As Above
P28-SO-22	21.0-23.0	2.5	NO/NS			1320	
				25-30	50		25-30' As Above
P28-SO-32	31.0-33.0	2.1	NO/NS	30-35	50	1430	30-35' As Above
				35-40	50		35-40' As Above, grading finer
P28-SO-42	41.0-43.0	0.5	NO/NS	40-45	50	1500	40-45' Sat, gry, F SAND, dense
P28-SO-50	49.0-50.0	0.4	NO/NS	45-50	40	1530	45-50' As Above



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 25-30' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 29' bgs.
Sample taken: ICS-P28-W-121514 @ 1400

Groundwater parameters:
Temperature - 13.4C
pH - 6.8
Conductivity - 5,250 uS/cm
Turbidity - 229 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

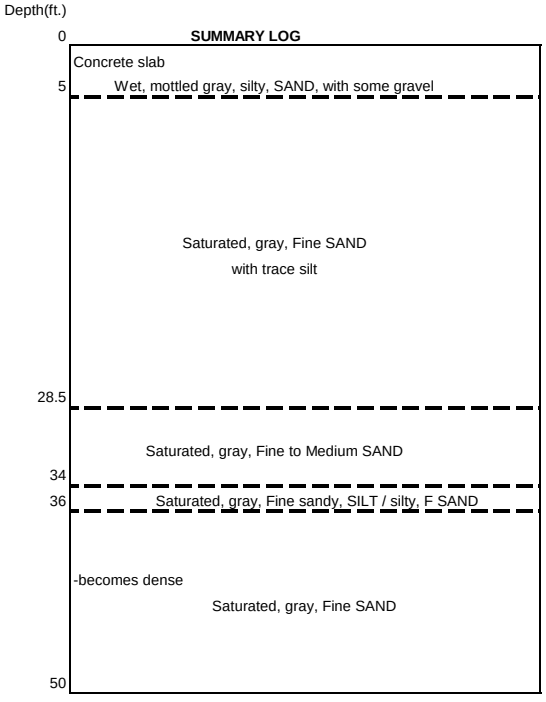
BORING - DESCRIPTION OF SAMPLES & DATA

P29

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N200265 E1269944 NAD 83/96
Elevation (Ft.): Ground Surface: Concrete
Date Completed: 12/10/14
Weather: Rain 60F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	40		6" concrete slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P29-SO-4	3.0-4.0	16.5	MO/NS			0800	1-5' Wet, mot gry, silty, SAND, w/some gravel, wood
				5-10	60		5-9.5' Wet-sat, gry, F SAND, w/trace silt
P29-SO-7	6.0-8.0	49.3	MO/MS			0810	9.5-10' Wet, gry, F SAND
P29-SO-10	9.0-10.0	11.7	SLO/SS			0820	
				10-15	60		10-15' Wet, gry, F SAND, w/trace silt
P29-SO-13	12.0-14.0	11.2	SLO/SS			0830	odor and sheen to 14'
				15-20	60		15-20' sat, gry, F SAND, w/trace silt
P29-SO-16	15.0-17.0	15.5	SLO/SS			0840	
DUPL2						0845	
				20-25	60		20-25' As Above
P29-SO-22	21.0-23.0	5.2	NO/NS			0850	
				25-30	55		25-28.5' As Above
							28.5-30' Sat, gry, F-M SAND
P29-SO-32	31.0-33.0	5.3	NO/NS	30-35	55	0900	30-31' As above w/silt clasts
							31-34' Sat, gry, F SAND
							34-35' Sat, gry, silty, F SAND / F sandy, SILT
				35-40	60		35-36' As Above
							36-40' Sat, gry, F SAND
P29-SO-42	41.0-43.0	0.3	NO/NS	40-45	60	1045	40-45' Sat, gry, F SAND, w/silty sand interbeds, dense
P29-SO-50	49.0-50.0	0.6	NO/NS	45-50	60	1100	45-50' As Above



NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 29-34' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 33' bgs.
Sample taken: ICS-P29-W-121014 @ 1000

Groundwater parameters:
Temperature - 14.0C
pH - 6.8
Conductivity - 3,070 uS/cm
Turbidity - 401 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

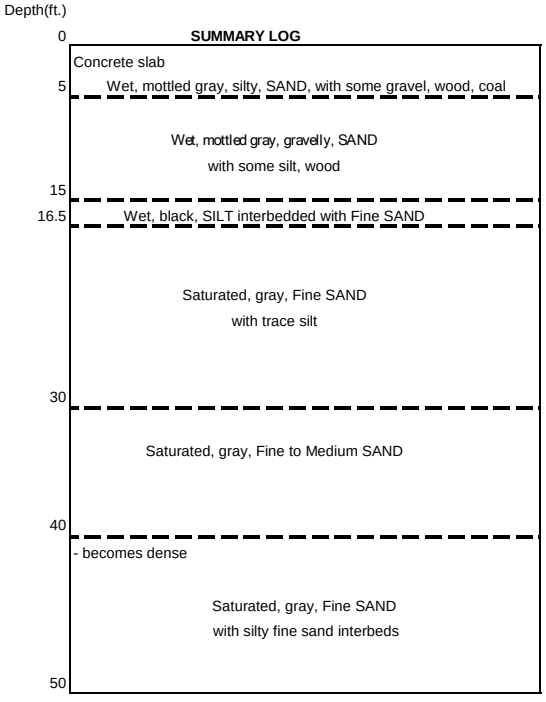
BORING - DESCRIPTION OF SAMPLES & DATA

P30

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N200295 E1270067 NAD 83/96
Elevation (Ft.): Ground Surface: Concrete
Date Completed: 12/09/14
Weather: Rain 55F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	40		4" slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P30-SO-4	3.0-5.0	2.6	NO/NS			1150	
				5-10	60		5-7' Wet, blk, gravelly, SAND
P30-SO-7	6.0-7.0	18.5	SLO/NS			1200	7-10' Wet, mot gry, gravelly, SAND, w/some silt, wood
P30-SO-10	9.0-10.0	2.0	NO/NS			1210	
				10-15	30		10-15' As Above, loose/soft
P30-SO-13	12.5-13.5	15.5	SLO/NS			1220	
				15-20	60		15-15.5' Wet, blk, SILT
P30-SO-16	15.0-16.5	4.2	NO/NS			1230	15.5-16' Sat, gry-blk, F SAND
							16-16.5' Wet, blk, SILT
							16.5-20' Sat, gry, F SAND, w/trace silt, wood
				20-25	50		20-20.5' As Above
P30-SO-22	21.0-23.0	2.7	NO/NS			1240	20.5-21' Wood core
							21-25' Sat, gry, F SAND
				25-30	60		25-30' As Above
P30-SO-32	31.0-33.0	1.0	NO/NS	30-35	50	1430	30-35' Sat, gry, F-M SAND
				35-40	60		35-40' As Above
P30-SO-42	41.0-43.0	0.4	NO/NS	40-45	60	1445	40-45' Sat, gry, F SAND, w/silty zones, dense
P30-SO-50	49.0-50.0	0.4	NO/NS	45-50	50	1500	45-50' As Above, wood @ 48'



NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 25-30' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 29' bgs.
Sample taken: ICS-P30-W-120914 @ 1400

Groundwater parameters:
Temperature - 13.9C
pH - 7.4
Conductivity - 6,030 uS/cm
Turbidity - 182 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

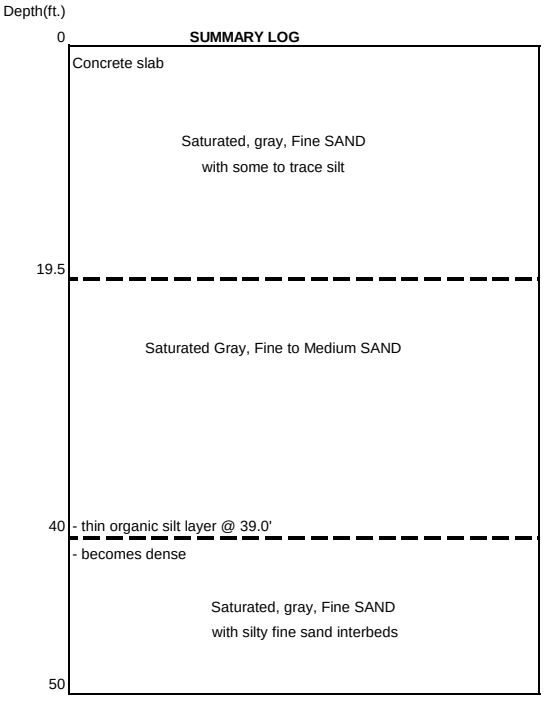
BORING - DESCRIPTION OF SAMPLES & DATA

P31

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N200244 E1270179 NAD 83/96
Elevation (Ft.): Ground Surface: Concrete
Date Completed: 12/09/14
Weather: Rain 55F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	40	0750	4" slab
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
P31-SO-4	3.0-4.0	0.1	NO/NS			0800	1.5-5' Wet, bwn, F SAND, w/some silt, thin roots
				5-10	60		5-8" As Above
P31-SO-7	6.0-8.0	0.2	NO/NS			0810	8-10' Sat, gry, F SAND, w/silty sand interbeds
P31-SO-10	9.0-11.0	0.2	NO/NS			0820	
				10-15	60		10-15' As Above
P31-SO-13	12.0-14.0	0.3	NS/NS			0830	
				15-20	60		15-19.5' As Above
P31-SO-16	15.0-17.0	0.3	NO/NS			0840	19.5-20' Sat, gry, F-M SAND
				20-25	50		20-25' As Above
P31-SO-22	21.0-23.0	0.3	NO/NS			0850	
				25-30	50		25-30' As Above
P31-SO-32	31.0-33.0	0.4	NO/NS	30-35	50	1020	30-35' As Above
				35-40	50		35-40' As above
							0.3' thick organic silt layer @ 39.0'
P31-SO-42	41.0-43.0	0.5	NO/NS	40-45	50	1030	40-45' Sat, gry, F SAND, w/silty F sand interbeds
P31-SO-50	49.0-50.0	0.5	NO/NS	45-50	50	1040	45-50' As above, dense



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 25-30' below ground surface consisting of 1/2" dia. SCH 40 PVC screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 29' bgs.
Sample taken: ICS-P31-W-120914 @ 1000

Groundwater parameters:
Temperature - 13.4C
pH - 6.9
Conductivity - 4,010 uS/cm
Turbidity - 65 ntu

Completed boring backfilled with granular bentonite and patched with concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

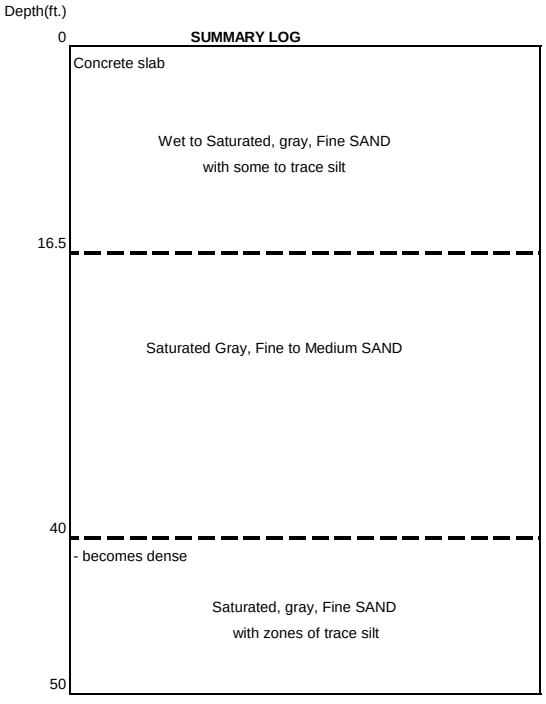
BORING - DESCRIPTION OF SAMPLES & DATA

P32

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N200183 E1269973 NAD 83/96
Elevation (Ft.): Ground Surface: Concrete
Date Completed: 12/15/14
Weather: Cloudy 45F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5			0-10' interval originally sampled/logged
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
				10-15	60		10-15' Wet-sat, gry, F SAND, w/trace silt
P32-SO-13	12.0-14.0	3.3	NO/NS			0800	
				15-20	60		15-16' As Above
P32-SO-16	16.0-17.5	5.6	NO/NS			0810	16-20' Sat, gry, F-M SAND
DUPL3	duplicate of above					0815	
				20-25	60		20-25' As Above
P32-SO-22	21.0-22.0	4.9	NO/NS			0820	
				25-30	55		25-30' As Above
P32-SO-32	31.0-33.0	5.5	NO/NS	30-35	55	0940	30-34' As Above
							34-35' Sat, gry, F SAND, w/zones of trace silt
				35-40	55		35-40' As Above, dense
P32-SO-42	41.0-43.0	8.3	NO/NS	40-45	55	1050	40-45' Sat, gry, F SAND
P32-SO-50	49.0-50.0	3.1	NO/NS	45-50	55	1100	45-50' Sat, gry, F SAND, w/zones of trace sit



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 25-30' below ground surface consisting of 1/2" dia. SCH 40 PVC screen. Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 29' bgs. Sample taken: ICS-P32-W-A-121514 @ 0930

Groundwater parameters:
Temperature - 12.2C
pH - 6.6
Conductivity - 2,560 uS/cm
Turbidity - 312 ntu

Temporary Screen set @ 35-40' below ground surface consisting of 1/2" dia. SCH 40 PVC screen. Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 39' bgs. Sample taken: ICS-P32-W-B-121514 @ 1030

Groundwater parameters:
Temperature - 12.6C
pH - 6.8
Conductivity - 4,590 uS/cm
Turbidity - 183 ntu

Completed boring backfilled with granular bentonite and patched with asphalt concrete.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

P33

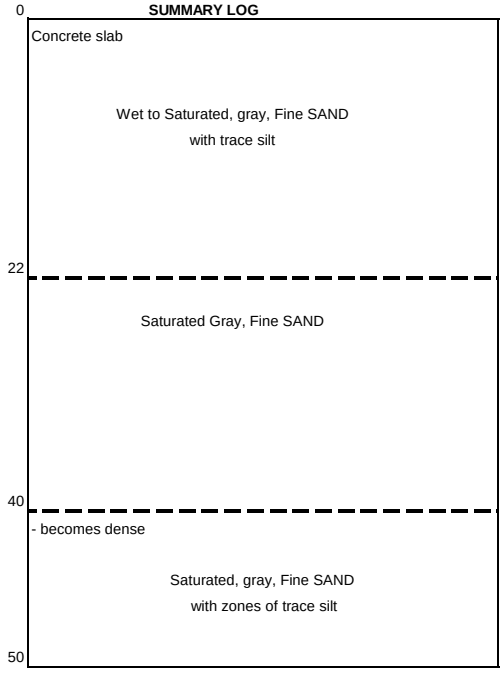
Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Kasey
Drill Type: Geoprobe 6600
Size/Type Casing: 2"

Location: N199983 E1270159 NAD 83/96
Elevation (Ft.): Ground Surface: Gravel
Date Completed: 12/08/14
Weather: Cloudy 45F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5			0-10' interval originally sampled/logged
							0.4-1.0' Damp, mot gry, gravelly, SAND, w/some silt
				10-15	50		10-15' Sat, gry, F SAND, w/trace silt
P33-SO-13	12.0-14.0	0.1	NO/NS			0810	
				15-20	45		15-20' As Above
P33-SO-16	15.0-17.0	0.6	NO/NS			0820	
				20-25	60		20-22' As Above
P33-SO-22	21.0-23.0	0.4	NO/NS			0830	22-25' Sat, gry, F SAND
				25-30	55		25-30' As Above
P33-SO-32	31.0-33.0	0.4	NO/NS	30-35	55	0950	30-35' As Above
				35-40	50		35-40' As Above
P33-SO-42	41.0-43.0	0.3	NO/NS	40-45	50	1100	40-45' Sat, gry, F SAND, w/trace silt, sand interbeds, dense
P33-SO-50	49.0-50.0	0.3	NO/NS	45-50	50	1110	45-50' As Above

Depth(ft.)

SUMMARY LOG



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Temporary Screen set @ 26-30' below ground surface consisting of SS hydropunch screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 29' bgs.
Sample taken: ICS-P33-W-A-120814 @ 0900
Groundwater parameters:
Temperature - 12.1C
pH - 6.7
Conductivity - 710 uS/cm
Turbidity - 586 ntu

Temporary Screen set @ 36-40' below ground surface consisting of SS Hydropunch screen.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing with intake @ 39' bgs.
Sample taken: ICS-P33-W-B-120814 @ 1030*
Groundwater parameters:
Temperature - 12.6C
pH - 7.2
Conductivity - 2,150 uS/cm
Turbidity - 440 ntu
* only for samples chloride/sulfate - very low yield

Completed boring backfilled with granular bentonite

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

BORING - DESCRIPTION OF SAMPLES & DATA

P34

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: Powerprobe 9630
Size/Type Casing: 2"

Location: N199798 E1270299 NAD83/96
Elevation (Ft.): Ground Surface: quarry spalls
Date Completed: 6/9/15
Weather: Clear 80F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

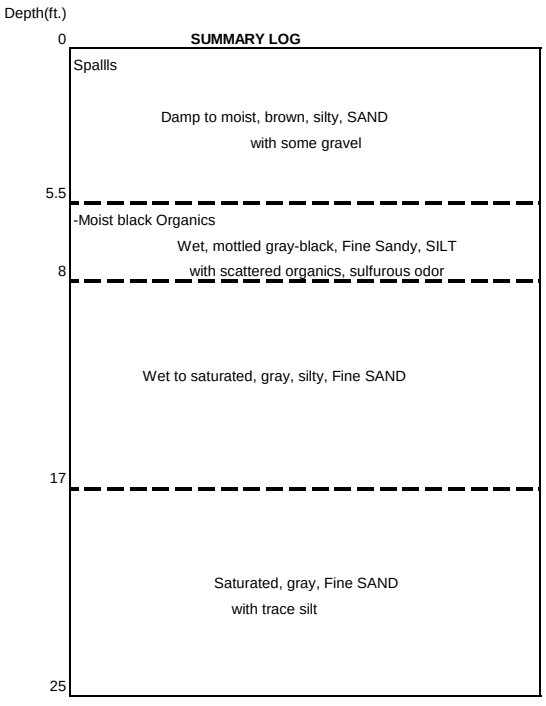
Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		0-5' Damp to moist, bwn, silty, SAND, w/some gravel
P34-SO-4	3-5	5.2	NO/NS			1035	
				5-10	55		5-5.5' As Above
							5.5-5.8' Moist, blk, organics
P34-SO-7	6-8	10.1	SLO/NS			1040	5.8-8.0' Wet, mot gry-blk, F sandy, SILT, w/scattered
							organics, sulfurous odor, black smear
P34-SO-10	9-11	3.1	NO/NS			1045	8-10' Wet, gry, silty F SAND
				10-15	60		10-15' Sat, gry, silty, F SAND, wood @ 14'
P34-SO-13	12-14	5.2	NO/NS			1050	
				15-20	50		15-17' As Above
P34-SO-16	15-17	0.9	NO/NS			1055	17-20' Sat, gry, F SAND, w/trace silt
P34-SO-20	18-20	0.4	NO/NS			1100	
				20-25	60		20-25' As Above

Notes: Two groundwater grab samples taken:

Temporary Screen set @ 10-14' below ground surface
consisting of SS hydropunch.
Water sample collected using peristaltic pump through
1/4" diameter polyethylene tubing.
Groundwater parameters:
Temperature - 15.5C
pH - 7.9
Conductivity - 524 uS/cm
Turbidity - 78 ntu
Fe++ - 3.8 mg/l
Sample taken: ICS-P34-W-10-060915 @ 1400

Temporary Screen set @ 20-24' below ground surface
consisting of SS hydropunch.
Water sample collected using peristaltic pump through
1/4" diameter polyethylene tubing.
Groundwater parameters:
Temperature - 17.3C
pH - 7.5
Conductivity - 3070 uS/cm
Turbidity - 33 ntu
Fe++ - 4.6 mg/l
Sample taken: ICS-P34-W-20-060915 @ 1200

Completed boring backfilled with granular bentonite.



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

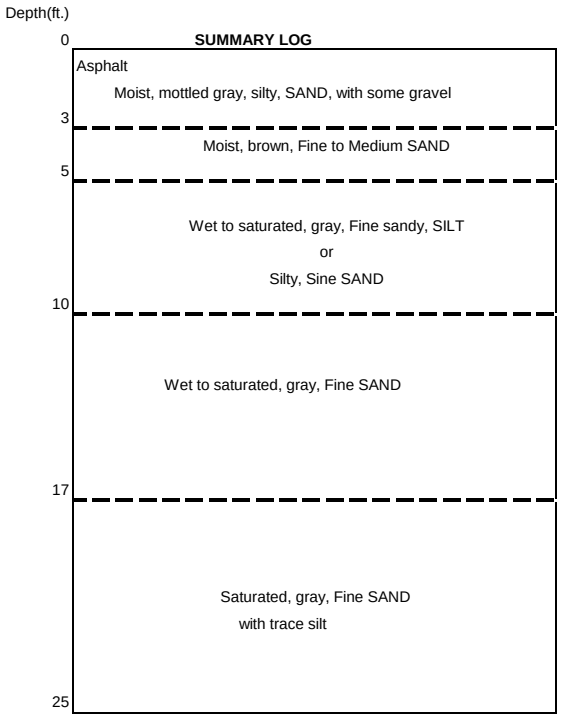
BORING - DESCRIPTION OF SAMPLES & DATA

P35

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: Powerprobe 9630
Size/Type Casing: 2"

Location: N199693 E1270348 NAD83/96
Elevation (Ft.): Ground Surface: Asphalt
Date Completed: 6/8/15
Weather: Clear 85F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	55		0-0.5' Asphalt/crushed rock
P35-SO-4	3-5	1.8	NO/NS			1405	0.5-3' Moist, mot gry, silty, SAND, w/some gravel
							3-5' Moist, bwn, F-M SAND
				5-10	60		5-8' Wet, bwn, F Sandy, SILT, w/trace organics
P35-SO-7	6-8	0.2	NO/NS			1410	8-10' Sat, gry, silty, F SAND
P35-SO-10	9-11	0.9	NO/NS			1415	
				10-15	60		10-15' Sat, gry, silty, F SAND
P35-SO-13	12-14	2.3	NO/NS			1420	
				15-20	50		15-17' As Above
P35-SO-16	15-17	1.6	NO/NS			1425	17-20' Sat, gry, F SAND, w/trace silt
P35-SO-20	18-20	0.2	NO/NS			1430	
				20-25	20		As Above - poor recovery



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Two groundwater grab samples taken:

Temporary Screen set @ 10-14' below ground surface
consisting of SS hydropunch.
Water sample collected using peristaltic pump through
1/4" diameter polyethylene tubing.
Groundwater parameters:
Temperature - 19.8C
pH - 6.7
Conductivity - 3220 uS/cm
Turbidity - 67 ntu
Fe++ - 6.6 mg/l
Sample taken: ICS-P35-W-10-060915 @ 1000

Temporary Screen set @ 20-24' below ground surface
consisting of SS hydropunch.
Water sample collected using peristaltic pump through
1/4" diameter polyethylene tubing.
Groundwater parameters:
Temperature - 16.9C
pH - 6.8
Conductivity - 1821 uS/cm
Turbidity - 459 ntu
Fe++ - 9.0 mg/l
Sample taken: ICS-P35-W-20-060815 @ 1530

Completed boring backfilled with granular bentonite and patched with asphalt.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

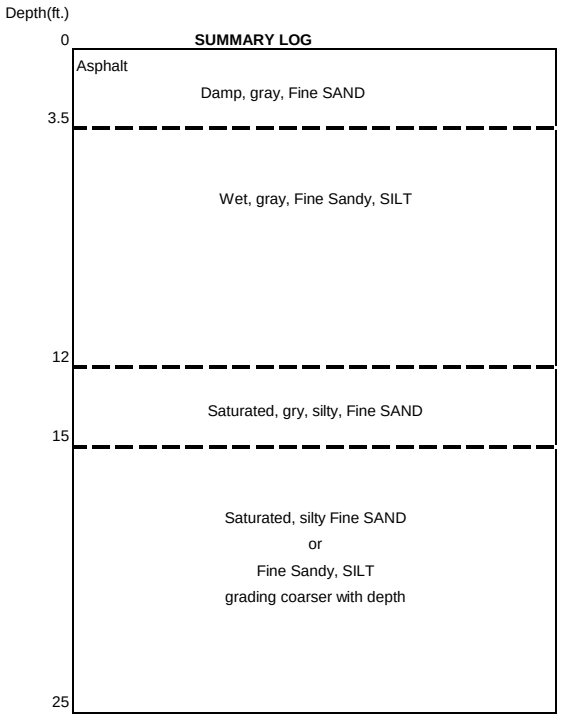
BORING - DESCRIPTION OF SAMPLES & DATA

P36

Field Rep: DG Cooper
Drilling Co.: Cascade
Driller: Frank
Drill Type: Powerprobe 9630
Size/Type Casing: 2"

Location: N199556 E1270372 NAD83/96
Elevation (Ft.): Ground Surface: Asphalt
Date Completed: 6/8/15
Weather: Clear 80F
Hammer Type: Direct push Sampler Type: 5' long x 2" dia. Macro retained in an acrylic sleeve

Sample Number	Sample Interval (ft. bgs.)	PID Headspace (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length inches	Time	Sample Description
				0-5	50		0-0.5' Asphalt/crushed rock
P36-SO-4	3-4	6.7	NO/NS			0935	0.5-3.5' Damp, gry, F SAND
							3.5-5' Wet, gry, F Sandy, SILT
				5-10	40		5-10' As Above
P36-SO-7	6-8	7.6	NO/NS			0940	
P36-SO-10	10-12	0.0	NO/NS			0945	
				10-15	60		10-12' As Above
P36-SO-13	12-14	1.3	NO/NS			0950	12-15' Sat, gry, silty, F SAND
				15-20	50		15-20' As Above - borderline F Sandy, SILT gradation
P36-SO-16	15-17	2.7	NO/NS			0955	grades coarser w/depth
P36-SO-20	18-20	0.8	NO/NS			1000	
				20-25	0		No recovery



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action and interpretation. Variations between what is shown and actual conditions should be anticipated.

Notes: Two groundwater grab samples taken:

Temporary Screen set @ 10-14' below ground surface consisting of SS hydropunch.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing.
Groundwater parameters:
Temperature - 21.0C
pH - 6.6
Conductivity - 3180 uS/cm
Turbidity - 115 ntu
Fe++ - 6.86 mg/l
Sample taken: ICS-P36-W-10-060815 @ 1200

Temporary Screen set @ 20-24' below ground surface consisting of SS hydropunch.
Water sample collected using peristaltic pump through 1/4" diameter polyethylene tubing.
Groundwater parameters:
Temperature - 17.5C
pH - 6.5
Conductivity - 4080 uS/cm
Turbidity - 127 ntu
Fe++ - 9.6 mg/l
Sample taken: ICS-P36-W-20-060815 @ 1100

Completed boring backfilled with granular bentonite and patched with asphalt.

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium
Sat = Pores saturated with water

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EMBAYMENT SEDIMENT CORE LOGS
UPLAND ICS/NWC SITE

REMEDIAL INVESTIGATION REPORT
ICS/NWC
SEATTLE, WASHINGTON

Dalton, Olmsted & Fuglevand, Inc.

Dalton, Olmsted Fuglevand, Inc.
Environmental Consultants

ICS / Former NW Cooperage
Seattle, Washington

DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core A

Field Rep: D. Cooper	Location: N200360 E1269800 NAD83	Drive Length (ft.): 8.0		
Drilling Co.: Marine Sampling Systems	Date Completed: 11/20/2012	Recovery Length (ft.): 7.1	Recovery efficiency: 89%	
Driller: Bill Jaworski	Time: 0908	Depth to Mudline (ft.): 8.3		
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 10.5		
Size/Type Casing: 4"	Date Processed: 11/26/2012	Bottom Elevation (MLLW): 1.7	From 2018 aerial survey	

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-0.8	1500	NS	1.0	0-0.8	Black, sandy, GRAVEL, w/trace silt, plastic fragment
2	0.8-1.5	1510	LS	2.5	0.8-1.5	Black, silty, SAND, w/some silt
					1.5-1.8	Grey precipitate,very hard
3	1.8-3.0	1520	LS	3.8	1.8-3.0	Black, silty, Fine SAND
						shiny, slimy texture, trace wood, sulfurous odor
4	3-4	1525	NS	1.3	3.0-4.0	Black to gray, Fine sandy, SILT
						grades gray with depth
5	4-5	1530	NS	1.9	4.0-5.5	Grey, silty, Fine SAND
6	5.2-6	1540	NS	1.5	5.5-6.8	Gray, silty, Fine SAND
7	6-6.8	1550	NS	1.8		
					6.8-7.1	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Sandy, GRAVEL	**1** = 0.4'
0.9		
1.6	Silty, SAND	**2** = 1.3'
	-Hard precipitate	
	Silty, Fine SAND	**3** = 2.7'
3.3		
	Fine Sandy, SILT	**4** = 3.9'
4.5		
	Silty, Fine SAND	**5** = 5.1'
6.2		
	SILT	**6** = 6.3'
		7 = 7.2'
8		
	Bottom of core 8.0	
9		
10		
11		
12		

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Summary log depths have been adjusted based on recovery efficiency, and material type.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core B

Field Rep: D. Cooper	Location: N200357 E1269857 NAD83		Drive Length (ft.): 7.7	
Drilling Co.: Marine Sampling Systems	Date Completed:	11/20/2012	Recovery Length (ft.): 7.1	Recovery efficiency: 92%
Driller: Bill Jaworski	Time: 1027		Depth to Mudline (ft.): 8.5	
Drill Type: Vibracore	Weather: Rain 50F		Tide (MLLW): 11.6	
Size/Type Casing: 4"	Date Processed:	11/27/2012	Bottom Elevation (MLLW): 2.9	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0.5-1.5	1120	-	-	0-0.5	Brown, sandy, GRAVEL
					0.5-1.5	Gray, Precipitate, very hard, with sand, gravel inclusions
2	1.5-2.5	1125	NS	5.6	1.5-2.5	Black, sandy, GRAVEL, w/silty sand at base atop 1" thick precipitate layer
3	2.5-3.5	1135	MS	14.2	2.5-4.5	Black, Fine sandy, SILT, grading to silty, F SAND shiny, slimy appearance, oily odor
4	3.5-4.5	1145	MS	4.5		
5	4.5-5.5	1150	NS	2.6	4.5-6.5	Dark gray, SILT, w/trace F sand, thin organic layer @ 5.5'
6	5.5-6.5	1155	NS	1.1		
					6.5-7.1	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
0.5	sandy, GRAVEL	
	Precipitate	**1** = 1.1'
1.8		
	Sandy, Gravel	**2** = 2.2'
2.9		
		3 = 3.3'
	Fine Sandy, SILT	
		4 = 4.4'
5.2		
		5 = 5.5'
	SILT	
		6 = 6.6'
7.7		
	Bottom of core 7.7'	
8		
9		
10		
11		
12		

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core C

Field Rep: D. Cooper	Location: N200352 E1269851 NAD83	Drive Length (ft.): 5.0	
Drilling Co.: Marine Sampling Systems	Date Completed: 11/20/2012	Recovery Length (ft.): 4.3	Recovery efficiency: 86%
Driller: Bill Jaworski	Time: 0952	Depth to Mudline (ft.): 9.7	
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 11.3	
Size/Type Casing: 4"	Date Processed: 11/27/2012	Bottom Elevation (MLLW): 1.9	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-0.8	1300	MS	46.2	0-0.8	Black, organic, silty, Fine SAND, fibrous organics, wood, throughout, oily odor
2	0.8-2.2	1305	LS	2.4	0.8-2.2	Black, Fine SAND, with some silt, shiny, loose
3	2.2-3.5	1310	NS	2.5	2.2-3.5	Black to dark gray, SILT, w/trace fine sand
4	3.5-4.0	1315	NS	4.2	3.5-4.0	Dark gray, Fine to Medium SAND Cored 1/2" piece of wood - refusal
					4.0-4.3	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Silty, Fine SAND	**1** = 0.5'
0.9		
	Fine SAND with some silt	**2** = 2.3'
2.5		
	SILT	**3** = 3.3'
4.0		
	Fine to Medium SAND	**4** = 4.4'
5.0	Bottom of core 5.0'	
6		
7		
8		
9		
10		
11		
12		

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core D

Field Rep: D. Cooper	Location: N200325 E1269895 NAD83	Drive Length (ft.): 8.0		
Drilling Co.: Marine Sampling Systems	Date Completed: 11/20/2012	Recovery Length (ft.): 6.0	Recovery efficiency: 75%	
Driller: Bill Jaworski	Time: 1104	Depth to Mudline (ft.): 10.4		
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 11.6		
Size/Type Casing: 4"	Date Processed: 11/27/2012	Bottom Elevation (MLLW): 1.4	From 2018 aerial survey	

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-1.1	1420	HS	368	0-1.1	1" of hard precipitate at surface Black, organic, SAND, w/gravelly precipitate chunks wood, glass, debris, oily odor
2	1.1-2.2	1425	HS	240	1.1-2.2	Black, silty, SAND, w/scattered precipitate, wood oily odor
3	2.2-3.5	1430	LS	33.7	2.2-3.5	Mottled black gray, SILT, with trace fine sand
4	3.5-4.5	1435	NS	4.2	3.5-5.5	Dark gray, SILT
5	4.5-5.5	1440	NS	3.2		
					5.5-6.0	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Organic, SAND with precipitate	**1** = 0.7'
1.5		
	Silty, SAND with scattered precipitate	**2** = 2.1'
2.9		
	Mottled, SILT with trace fine sand	**3** = 3.8'
4.6		
	SILT	**4** = 5.3'
		5 = 6.7'
8		
	Bottom of core 8.0	
9		
10		
11		
12		

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core F

Field Rep: D. Cooper	Location: N200322 E1269928 NAD83	Drive Length (ft.): 12.0		
Drilling Co.: Marine Sampling Systems	Date Completed: 11/21/2012	Recovery Length (ft.): 9.4	Recovery efficiency: 78%	
Driller: Bill Jaworski	Time: 1240	Depth to Mudline (ft.): 9.5		
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 11.0		
Size/Type Casing: 4"	Date Processed: 11/27/2012	Bottom Elevation (MLLW): 0.6	From 2018 aerial survey	

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-0.8	1545	HS	42	0-0.8	Black, gravelly, SAND, with woody debris cemented ash-like fragments, debris, oily odor
2	0.8-1.9	1550	HS	365	0.8-1.9	Black, Fine sandy, SILT, with scattered wood shiny, oily odor, barrel bung gaskets
3	1.9-3.0	1555	LS	5.4	1.9-4.1	Mottled black-gray (banded), SILT, soft, shiny, oily odor
4	3-4	1600	NS	2.9	4.1-7.1	Mottled black-gray, SILT, mussle shells @ 5' grading fine sandy from 6.5-7' 1" wood branch @ 6'
5	4-5	1605	NS	68		
6	5-6	1610	NS	2.8		
7	6-7	1615	NS	2.5	7.1-9.0	Gray, Fine SAND 1" wood branch @ 8.5'
8	7.1-8	1620	NS	1.4		
9	8-9	1625	NS	3.2		
					9-9.4	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Gravelly, SAND	
1		**1** = 0.5'
	Fine sandy, SILT	**2** = 1.7'
2.4		
	Banded, SILT	**3** = 3.1'
		4 = 4.5'
5.2		
	SILT	**5** = 5.8'
		6 = 7.0'
		7 = 8.3'
9.1		
	Fine SAND	**8** = 9.7'
		9 = 10.9'
12		

Bottom of core 12.0

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core G

Field Rep: D. Cooper	Location: NN200350 E1269965 NAD83	Drive Length (ft.): 8.0	
Drilling Co.: Marine Sampling Systems	Date Completed: 11/21/2012	Recovery Length (ft.): 6.8	Recovery efficiency: 85%
Driller: Bill Jaworski	Time: 0828	Depth to Mudline (ft.): 5.1	
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 7.7	
Size/Type Casing: 4"	Date Processed: 11/28/2012	Bottom Elevation (MLLW): 3.6	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-1	955	-	-	0-1.0	Gray, sandy, GRAVEL, cemented
2	1-2.1	1000	LS	1.4	1.0-2.1	Black, silty, SAND, with scattered wood, sulfurous odor
3	2.1-3	1015	LS	1.2	2.1-2.8	Black, SILT, soft, shiny, slight oil odor
DUP1		1016			2.8-3.5	Gray to black, Fine SAND, with scattered wood
4	3-4	1020	LS	1.2	3.5-4.2	Black, SILT, soft, shiny, oily odor
5	4-4.8	1025	HS	36.5	4.2-4.8	Black, Fine sandy, SILT, soft, shiny, strong oily odor lamp black, fine woody debris
6	5.1-6.5	1030	NS	1.0	4.8-6.5	Gray, SILT, with some fine sand wood, shells from 4.8-5.1 becomes black/reduced from 6-6.5 with scattered shells
					6.5-6.8	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Sandy, GRAVEL	
1.2		**1** = 0.6'
	Silty, SAND	**2** = 1.8'
2.4		
	Black SILT	**3** = 3.0'
	-Fine sand	
		4 = 4.1'
		5 = 5.1'
5.6		
	Gray SILT	**6** = 6.8'
8		
	Bottom of core 8.0	
9		
10		
11		
12		

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core H

Field Rep: D. Cooper	Location: N200317 E1269980 NAD83	Drive Length (ft.): 12.0	
Drilling Co.: Marine Sampling Systems	Date Completed: 11/21/2012	Recovery Length (ft.): 5.6	Recovery efficiency: 46%**
Driller: Bill Jaworski	Time: 0858	Depth to Mudline (ft.): 8.6	
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 8.7	
Size/Type Casing: 4"	Date Processed: 11/28/2012	Bottom Elevation (MLLW): 0.1	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-0.8	1140	LS	1.4	0-0.8	Black, sandy, GRAVEL, with coal
2	0.8-2.5	1145	MS	4.3	0.8-2.5	Mottled gray, silty, SAND, with some gravel, brick, wood fibrous organics mixed in throughout, oily odor
3	2.5-4.1	1150	HS	28.8	2.5-4.1	Black, interbedded SILT and Fine SAND, shiny oily odor, fine coal
4	4.1-5.2	1155	NS	2.1	4.1-5.2	Dark gray, silty, Fine SAND, with wood fibers Cored 3" thick wood at base - shaved piling likely driven ahead to 12' without additional recovery
					5.2-5.6	Core catcher

INTERPRETED SUMMARY LOG (adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Sandy, GRAVEL	
0.8		1 = 0.4'
	Silty, SAND	2 = 1.7'
2.5		
	Interbedded SILT with Fine SAND	3 = 3.3'
4.1		
	Fine SAND	4 = 4.7'
5.6		
	Bottom of Core 5.6' see note **	
6		
7		
8		
9		
10		
11		
12		

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Depths have been adjusted based on recovery efficiency. Variations between what is shown and actual conditions should be anticipated.

** This core encountered wood at 5' and was likely driven ahead rather than compacted/displaced

Abbreviations:
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M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core I

Field Rep: D. Cooper	Location: N200354 E1270036		Drive Length (ft.): 11.8	
Drilling Co.: Marine Sampling Systems	Date Completed:	11/21/2012	Recovery Length (ft.): 6.8	Recovery efficiency: 58%
Driller: Bill Jaworski	Time: 0950		Depth to Mudline (ft.): 10.6	
Drill Type: Vibracore	Weather: Rain 50F		Tide (MLLW): 10.2	
Size/Type Casing: 4"	Date Processed:	11/28/2012	Bottom Elevation (MLLW): -0.6	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-1.1	1340	NS	0.9	0-1.1	Black, silty, Fine SAND, with organics, wood fragments leaf debris, shiny, no odor
2	1.1-1.9	1345	NS	2.5	1.1-1.9	Black, gravelly, SAND, with minor silt, organics
3	1.9-3	1350	NS	1.9		
4	3-3.8	1355	NS	1.9	1.9-3.8	Mottled gray-black, SILT, scattered organics, shell fragments
5	4-5	1400	NS	1.5		
6	5-6	1405	NS	1.0	3.8-6.2	Gray, Fine SAND, with black silt interbeds at 4.5', 5', 5.5' trace organics at 6'
7					6.2-6.8	Core catcher
8						
9						
10						
11						

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Fine SAND	**1** = 0.9'
1.8		
	Gravelly, SAND	**2** = 2.6'
3.2		
	SILT	**3** = 4.2'
		4 = 5.9'
6.5		
	Fine SAND	**5** = 7.8'
		6 = 9.5'
11.8		

Bottom of core 11.8

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
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F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core J

Field Rep: D. Cooper	Location: N200348 E1270100 NAD83	Drive Length (ft.): 12.0	
Drilling Co.: Marine Sampling Systems	Date Completed: 11/21/2012	Recovery Length (ft.): 6.4	Recovery efficiency: 53%
Driller: Bill Jaworski	Time: 1100	Depth to Mudline (ft.): 11.4	
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 11.3	
Size/Type Casing: 4"	Date Processed: 11/28/2012	Bottom Elevation (MLLW): 0.2	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-0.8	1500	NS	1.3	0-0.8	Mottled brown, gravelly, SAND, with some silt scattered organics
2	0.8-2.0	1505	LS	0.8	0.8-2.0	Black-gray, thinly banded, SILT, with trace fine sand
3	2-3.2	1510	MS	3.3	2.0-3.2	Black, SILT, shiny, oily odor gravel, wood at 2.6'
4	3.2-4	1515	NS	1.5		
5	4-5	1520	NS	1.5		
6	5-6	1525	NS	1.4	3.2-6.0	Black-gray, thin bands of color, Fine SAND, with some silt, silt interbeds
7						Shells at 3.5', 5.8' Wood at 3.5', 4.5' Fine organics at 4.4-4.5'
8					6-6.4	Core catcher
9						
10						
11						

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Gravelly, SAND	**1** = 0.8'
1.5		
	Banded SILT	**2** = 2.6'
3.7		
	Black SILT	**3** = 4.9
6.0		
	Fine SAND	**4** = 6.8'
		5 = 8.5'
		6 = 10.4'
12		

Bottom of core 12.0

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
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F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core K

Field Rep: D. Cooper	Location: N200357 E1270196		Drive Length (ft.): 8.0	
Drilling Co.: Marine Sampling Systems	Date Completed:	11/20/2012	Recovery Length (ft.): 5.5	Recovery efficiency: 69%
Driller: Bill Jaworski	Time: 1327		Depth to Mudline (ft.): 10.6	
Drill Type: Vibracore	Weather: Rain 50F		Tide (MLLW): 9.2	
Size/Type Casing: 4"	Date Processed:	11/30/2012	Bottom Elevation (MLLW): -2.9	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-1	930	NS	1.8	0-1.1	Black, SILT, very soft, no odor
2	1-2	935	NS	1.6	1.1-2.3	Black, Fine sandy, SILT, shiny, no odor
DUP2		936				
3	2.3-3	940	NS	1.0	2.3-3.0	Black, gravelly, coarse SAND, no odor, <3" gravel
4	3-4.6	945	NS	6.9	3.0-4.6	Mottled gray-black, SILT, with wood, oily odor
5	4.6-5.1	950	NS	1.1	4.6-5.1	Mottled, gray-black, silty, SAND, no odor
					5.1-5.5	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Black SILT or Fine Sandy, SILT	**1** = 0.7'
		2 = 2.2'
3.3		
	Gravelly, coarse SAND	**3** = 3.8'
4.3		
	SILT	**4** = 5.5'
6.6		
	Silty, SAND	**5** = 7.0'
8		
	Bottom of core 8.0	
9		
10		
11		
12		

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
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LS - light sheen
MS - moderate sheen
HS - heavy sheen

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DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core L

Field Rep: D. Cooper	Location: N200303 E1270196 NAD83	Drive Length (ft.): 8.0	
Drilling Co.: Marine Sampling Systems	Date Completed: 11/20/2012	Recovery Length (ft.): 5.8	Recovery efficiency: 72%
Driller: Bill Jaworski	Time: 1300	Depth to Mudline (ft.): 8.3	
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 9.8	
Size/Type Casing: 4"	Date Processed: 11/30/2012	Bottom Elevation (MLLW): 0.3	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-1	1100	NS	2.6	e	
2	1-1.8	1105	LS	5.4	0-1.8	Mottled, gray-black, silty, Fine SAND, with scattered wood 1/2" clam @ 0.3', oily odor
3	2-3.1	1110	NS	2.3	1.8-3.1	Mottled gray, grading to black, Fine sandy, SILT, with organics, wood throughout, sulfurous odor, shell fragments
4	3.1-4.2	1115	NS	2.4	3.1-4.2	Gray, silty, Fine SAND, with black silt interbed @ 3.3'
5	4.2-5.4	1120	NS	1.9	4.2-5.4	Gray, Fine to Medium SAND
					5.4-5.8	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	Silty, Fine SAND	**1** = 0.7'
2.5		**2** = 1.9'
	Fine Sandy, SILT	**3** = 3.5'
4.3		
	Fine SAND	**4** = 5.0
5.8		
	Fine to medium SAND	**5** = 6.7'
8		
	Bottom of core 8.0	
9		
10		
11		
12		

NOTE: The summary log is an interpretation
based on samples, drill action, and interpolation.
Depths have been adjusted based on recovery efficiency.
Variations between what is shown and actual
conditions should be anticipated.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

Dalton, Olmsted Fuglevand, Inc.
Environmental Consultants

ICS / Former NW Cooperage
Seattle, Washington

DESCRIPTION OF SEDIMENT SAMPLES AND TESTS - CORE NO.

Sediment Core M

Field Rep: D. Cooper	Location: N200337 E1270246 NAD83	Drive Length (ft.): 7.2	
Drilling Co.: Marine Sampling Systems	Date Completed: 11/20/2012	Recovery Length (ft.): 3.9	Recovery efficiency: 54% **
Driller: Bill Jaworski	Time: 1401	Depth to Mudline (ft.): 12.1	
Drill Type: Vibracore	Weather: Rain 50F	Tide (MLLW): 8.1	
Size/Type Casing: 4"	Date Processed: 11/30/2012	Bottom Elevation (MLLW): -4.0	From 2018 aerial survey

DESCRIPTION OF CORE TUBE (based on recovered core tube length - feet)

Spl. No.	Sample Interval	Time	Sheen	PID (ppm)	Depth Inteval	Sample Description
1	0-1.1	1200	NS	1.6	0-1.1	Mottled, gray-black, SILT, with Fine Sand inclusions scattered organics, brown sand rind - heave
2	1.1-2	1205	NS	1.7	1.1-3.3	Brown, Fine to Medium SAND, with some gravel shell fragments @ 2.8', glass fragment
3	2-3.3	1210	NS	1.2		
					3.3-3.9	Core catcher

INTERPRETED SUMMARY LOG
(adjusted for recovery)

Depth (Ft.)	Description	Mean Sample Depth
	SILT	1 = 0.6'
2.0		**2** = 1.6'
	Fine to Medium SAND	**3** = 2.7'
7.1		
	Bottom of Core 7.1' see note **	
8		
9		
10		
11		
12		

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Depths have been adjusted based on recovery efficiency. Variations between what is shown and actual conditions should be anticipated.

** Poor ecovery in lower sand due to loss/liquifaction - not compaction.

Abbreviations:
PID - photoionization detector - MiniRAE 3000
F - fine
M - medium
NS - no sheen
LS - light sheen
MS - moderate sheen
HS - heavy sheen

Sediment Core Log

LDW-SC-40 (R3)

Sheet 1 of 2

Project: LDW RI/FS	Water Body Type: Lower Duwamish Waterway	Tube Length (ft): 14.0
Project #: PORS5-18220-511	Water Elevation (ft)/Tide: NA	Penetration Depth (ft): 13.0
Client: LDWG	Water Depth (ft): 10.4	Sample Quality: Good
Collection Date: 2/23/06	Mudline Elevation (ft): -1.0	Recovery in ft (%): 10.0 (77)
Contractor: MSS	N./LAT: 200339 E./LONG: 1270298	Process Date: 2/24/06
Vessel: R/V Nancy Anne	Horiz. Datum: NAD 83 N Vert. Datum: MLLW	Process Method: Cut tube
Operator: Bill Jaworski	Method/Tube ID: Vibracore/3.5" round Al	Logged By: L.McKee, C.Brackett

Recovered Depth (ft)	Recov. Interval & Sample	% Recovery (interval)	Chemical Analysis	PID Measurement	Sediment Description (Classification Scheme: USCS; Contacts are recovered depth; (In-situ depth interval in feet with parentheses))	Comments for Recovered Depths	In-situ Depth (ft) & Graphic Log
0	LDW-SC40-0-1.3	77% (0-13)	PCB SVOC Metals Hg Pesticides Dioxins/ Furans	0	SP: (0.0-0.5) damp, medium dense, brown (7.5YR, 4/2) medium SAND. Sand grains are multicolored (orange, red, white).	@ 0.2' TV = 0 kg/cm2 Tranistional Contact	upper alluvium
1			PCB SVOC Metals Hg Pesticides Dioxins/ Furans	0	OL: (0.5-1.7) moist, soft, black (2.5YR, 2.5/1) ORGANIC SILT, little sand layers (2") alternating with layers (3") of moist, medium stiff, dark gray (GLEY 1, 4/N) SILT, few sand. Organic silt has scattered shell and wood fragments up to 1/2" L. Grades to sand at basal contact.	@ 0.7' TV = 0.3 kg/cm2 GT @ 1.2' Sharp Contact	
2	1.3-2				SW: (1.7-13.0) moist, medium dense, brown (7.5Y,R, 4/2) medium to coarse SAND. Sand grains are multicolored (orange, red, white) and coarsen towards basal contact (from 6.0' to 10.0'). Slight H2S-like odor from 4' to 8'. @ 1.5' to 1.9': layer of SAND, little subrounded gravel up to 1" L. Scattered brick fragments up to 1" L.	@ 2.2' TV = 0 kg/cm2 GT @ 2.5'	
3	LDW-SC40-2-4		PCB SVOC Metals Hg Pesticides Dioxins/ Furans	0		@ 3.0' TV = 0.1 kg/cm2 Oxidation @ 0.0' to 4.0'.	
4				0			
5	LDW-SC40-4-6				@ 4.4' color changes to very dark gray sand		
6	LDW-						

The RETEC Group, Inc.
1011 SW Klickitat Way, Suite 207
Seattle, WA 98134-1162
Phone: (206) 624-9349
Fax: (206) 624-2839

Remarks: Drive Notes: no freefall, easy (13.0'), penetration goal reached. Three drive attempts made at station. Station re-occupied with vibracore after MCS drives. Core catcher was empty (0.5' sediment loss).

Calculated Recovery Sample Length/Penetration Length: 10.0/13.0 = 77 %

Note: Stratigraphic interpretations are preliminary and subject to change during the Remedial Investigation.

Sediment Core Log

LDW-SC-40 (R3)

Project: LDW RI/FS	Water Body Type: Lower Duwamish Waterway	Tube Length (ft): 14.0
Project #: PORS5-18220-511	Water Elevation (ft)/Tide: NA	Penetration Depth (ft): 13.0
Client: LDWG	Water Depth (ft): 10.4	Sample Quality: Good
Collection Date: 2/23/06	Mudline Elevation (ft): -1.0	Recovery in ft (%): 10.0 (77)
Contractor: MSS	N./LAT: 200339 E./LONG: 1270298	Process Date: 2/24/06
Vessel: R/V Nancy Anne	Horiz. Datum: NAD 83 N Vert. Datum: MLLW	Process Method: Cut tube
Operator: Bill Jaworski	Method/Tube ID: Vibracore/3.5" round Al	Logged By: L.McKee, C.Brackett

Recovered Depth (ft)	Recov.Interval & Sample	% Recovery (interval)	Chemical Analysis	PID Measurement	Sediment Description Classification Scheme: USCS Contacts are recovered depth (In-situ depth interval in feet with parentheses)	Comments for Recovered Depths	In-situ Depth (ft) & Graphic Log
7	SC40-8-8			0			lower alluvium
8	LDW-SC40-8-10			0			7 8 9 10 11 12 13
9				0			
10				0	End of core at 10.0'.		
11							
12							
13							

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1011 SW Klickitat Way, Suite 207
Seattle, WA 98134-1162
Phone: (206) 624-9349
Fax: (206) 624-2839

Remarks: Drive Notes: no freefall , easy (13.0'), penetration goal reached. Three drive attempts made at station. Station re-occupied with vibracore after MCS drives. Core catcher was empty (0.5' sediment loss).

Calculated Recovery Sample Length/Penetration Length: 10.0/13.0 = 77 %

Note: Stratigraphic interpretations are preliminary and subject to change during the Remedial Investigation.

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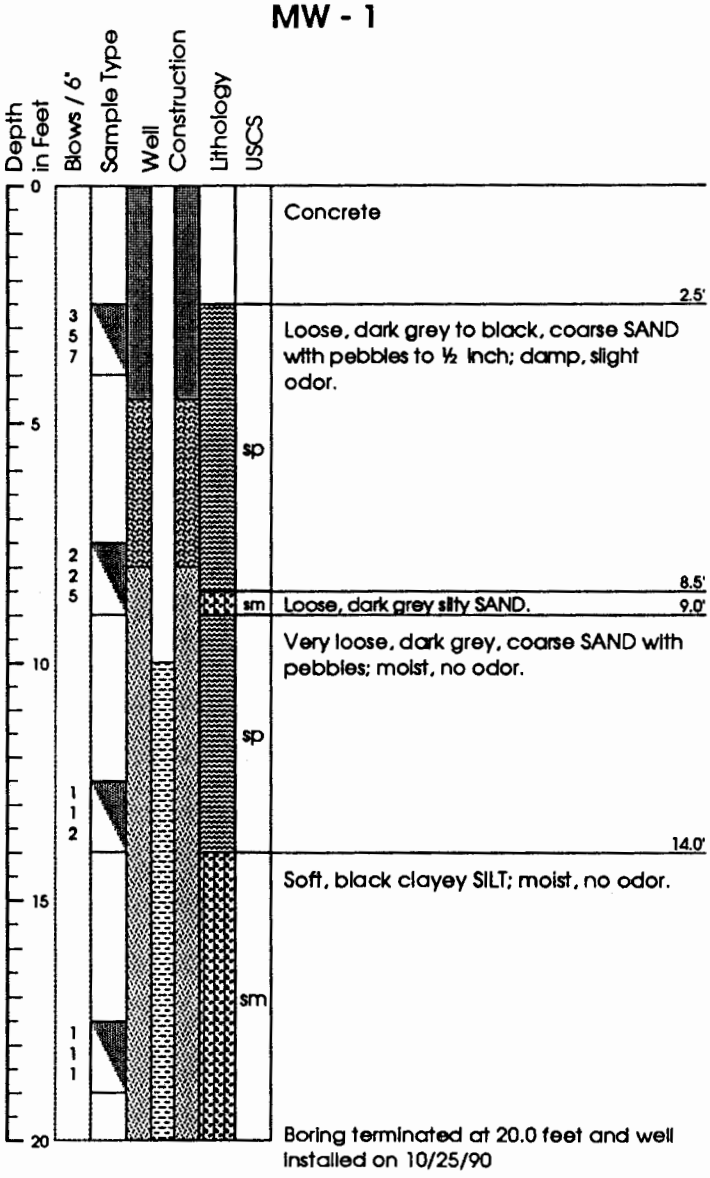
MONITORING WELL LOGS
UPLAND DOUGLAS PROPERTY SITE

REMEDIAL INVESTIGATION REPORT
ICS/NWC
SEATTLE, WASHINGTON

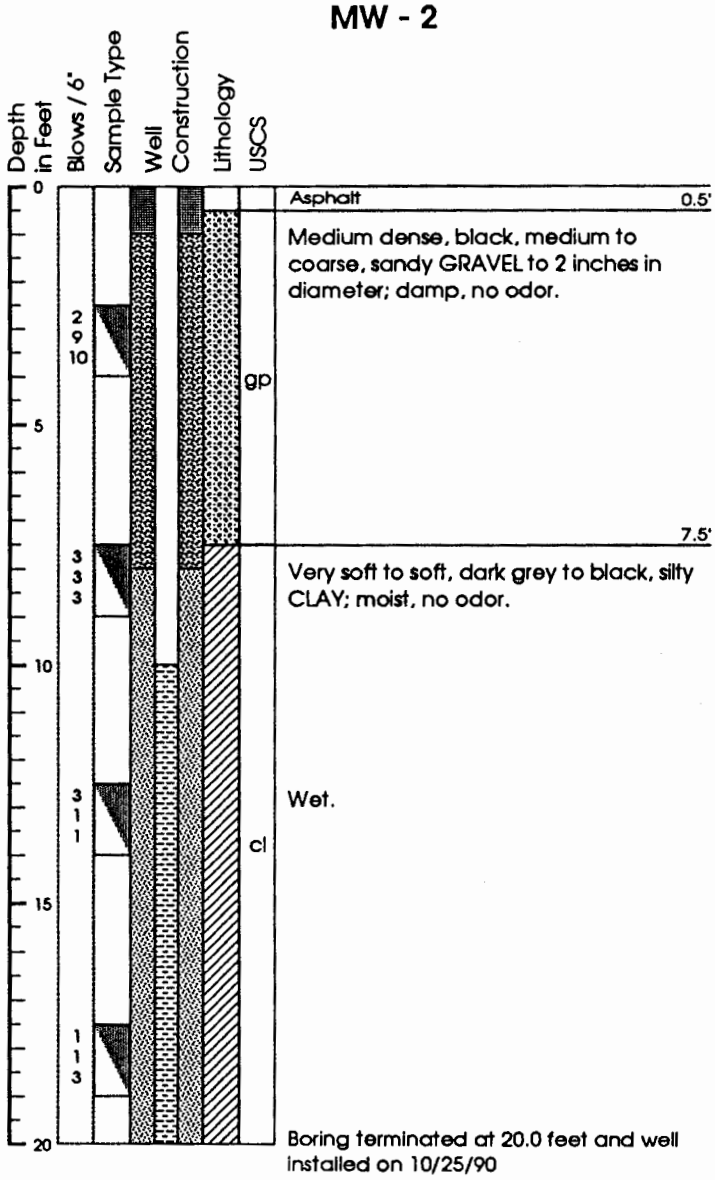
Dalton, Olmsted & Fuglevand, Inc.

Monitoring Well Construction and Geological Boring Log

DMC
MW - 1



DMC
MW - 2



Notes:

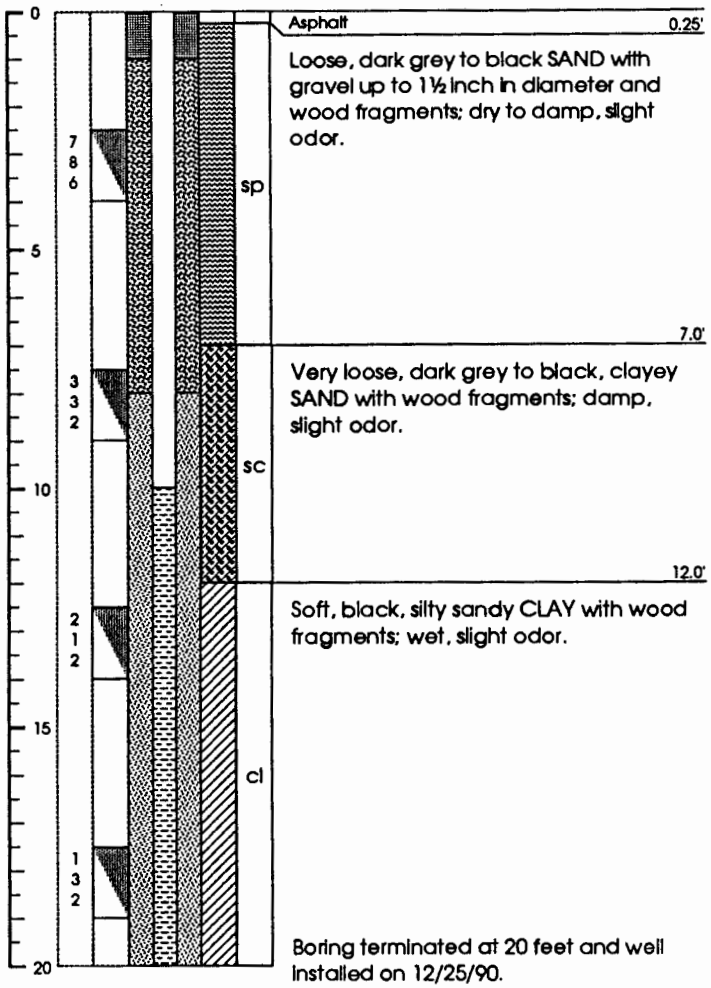
Client Name:	Alaska Marine Lines	Drilling Co.:	GeoBoring & Development, Inc.
Project Name:	7100 2ND Ave.	Drilling Method:	Hollow-Stem Auger
Logged By:	SW	Reference Elevation:	MW - 1 99.84'
			MW - 2 99.52'

Well Description

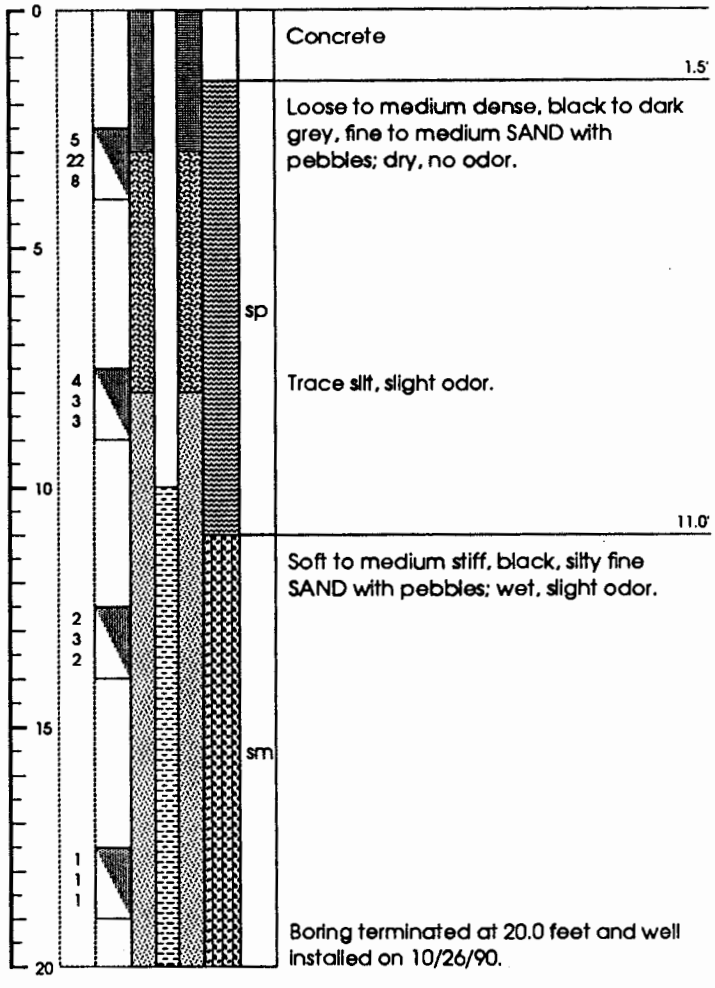
Surface Casing:	Flush Mounted	Filter Pack:	10 - 20 Silica Sand
Surface Seal:	Concrete	Seal:	Bentonite
Well Casing:	4" Sched. 40, PVC	Grout:	Concrete
Well Screen:	0.01" slots, Sched 40, PVC		

Monitoring Well Construction and Geological Boring Log

DMC
MW - 3



DMC
MW - 4



Notes:

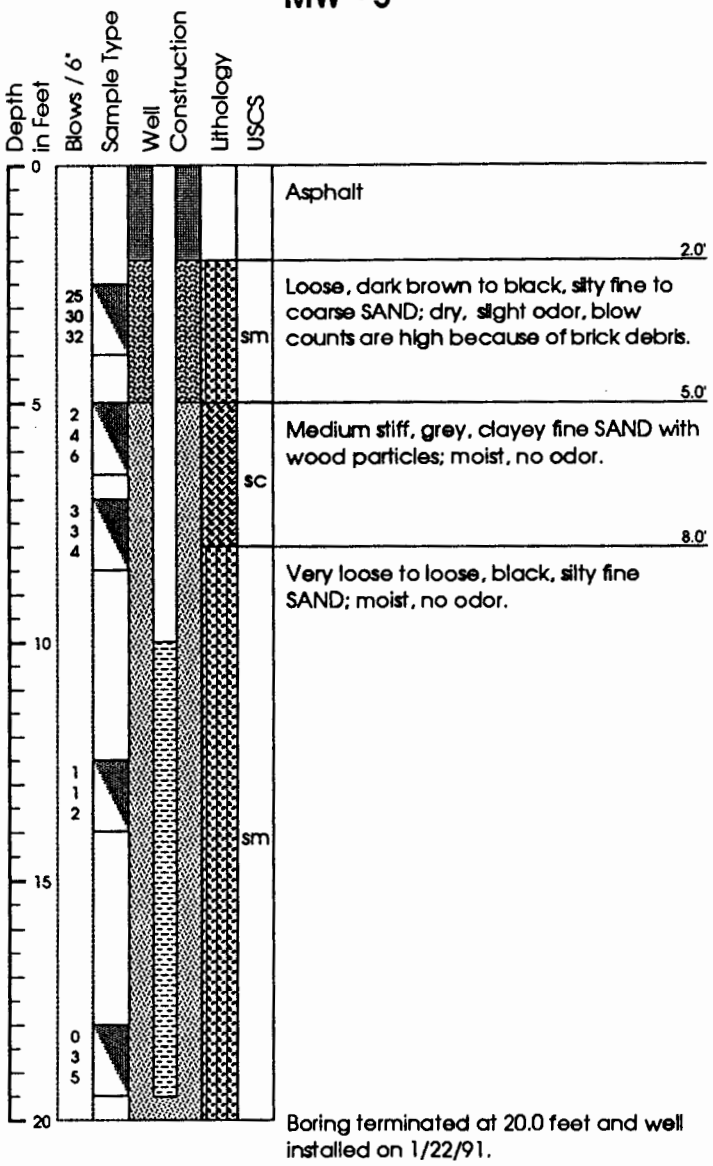
Client Name:	Alaska Marine Lines	Drilling Co.:	GeoBoring & Development, Inc.
Project Name:	7100 2 ND Ave.	Drilling Method:	Hollow-Stem Auger
Logged By:	MAC	Reference Elevation:	MW - 3 99.71'
			MW - 4 99.42'

Well Description

Surface Casing:	Flush Mounted	Filter Pack:	10 - 20 Silica Sand
Surface Seal:	Concrete	Seal:	Bentonite
Well Casing:	4" Sched. 40, PVC	Grout:	Concrete
Well Screen:	0.01" slots, Sched 40, PVC		

Monitoring Well Construction and Geological Boring Log

DMC
MW - 5



Asphalt

2.0'

Loose, dark brown to black, silty fine to coarse SAND; dry, slight odor, blow counts are high because of brick debris.

5.0'

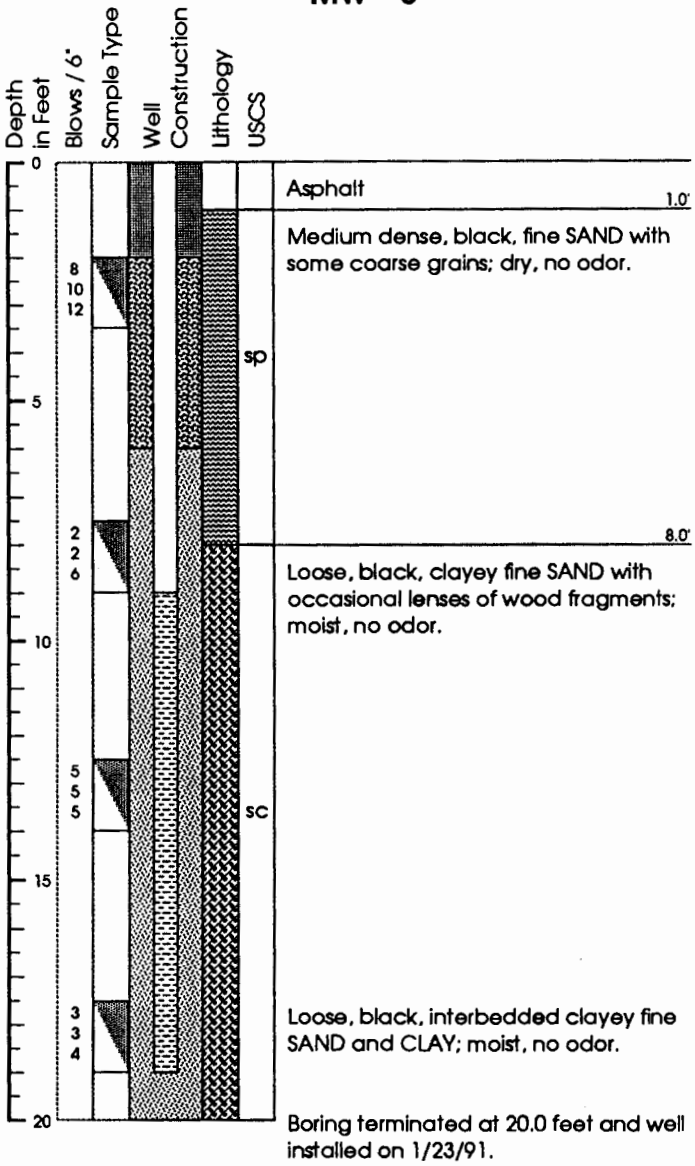
Medium stiff, grey, clayey fine SAND with wood particles; moist, no odor.

8.0'

Very loose to loose, black, silty fine SAND; moist, no odor.

Boring terminated at 20.0 feet and well installed on 1/22/91.

DMC
MW - 6



Asphalt

1.0'

Medium dense, black, fine SAND with some coarse grains; dry, no odor.

8.0'

Loose, black, clayey fine SAND with occasional lenses of wood fragments; moist, no odor.

Loose, black, interbedded clayey fine SAND and CLAY; moist, no odor.

Boring terminated at 20.0 feet and well installed on 1/23/91.

Notes:

Client Name:	Alaska Marine Lines	Drilling Co.:	GeoBoring & Development, Inc.
Project Name:	7100 2 ND Ave.	Drilling Method:	Hollow-Stem Auger
Logged By:	IMW	Reference Elevation:	MW - 5 98.32'
			MW - 6 98.43'

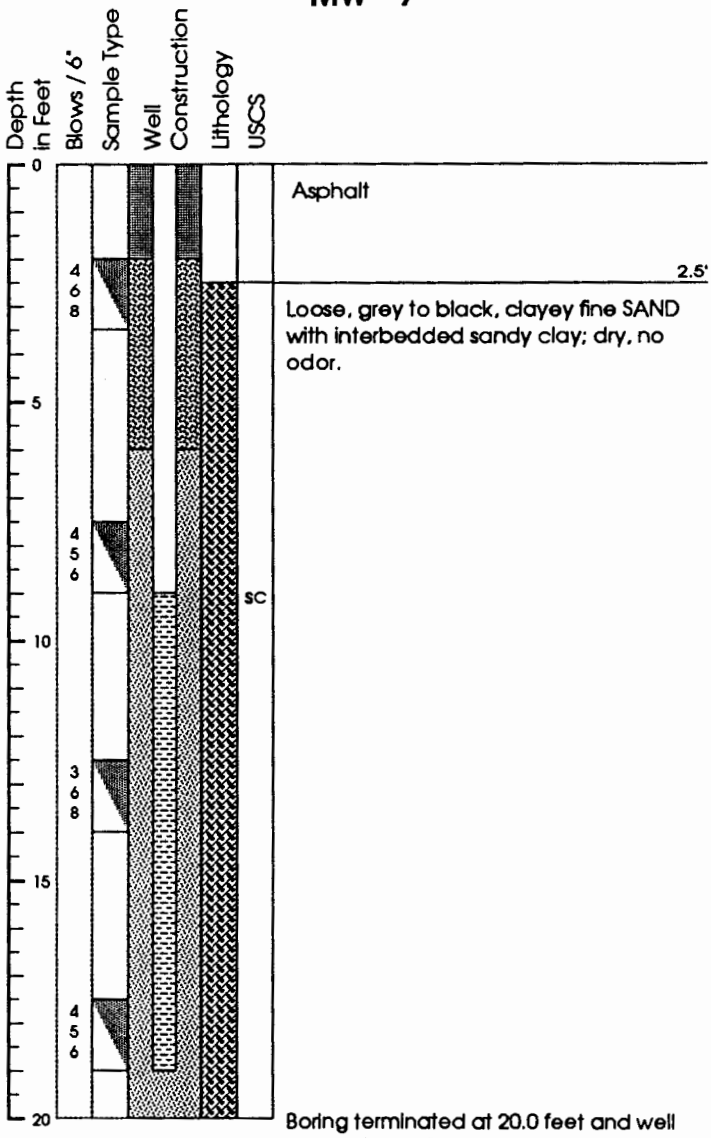
Well Description

Surface Casing:	Flush Mounted	Filter Pack:	10 - 20 Silica Sand
Surface Seal:	Concrete	Seal:	Bentonite
Well Casing:	4" Sched. 40, PVC	Grout:	Concrete
Well Screen:	0.01" slots, Sched 40, PVC		

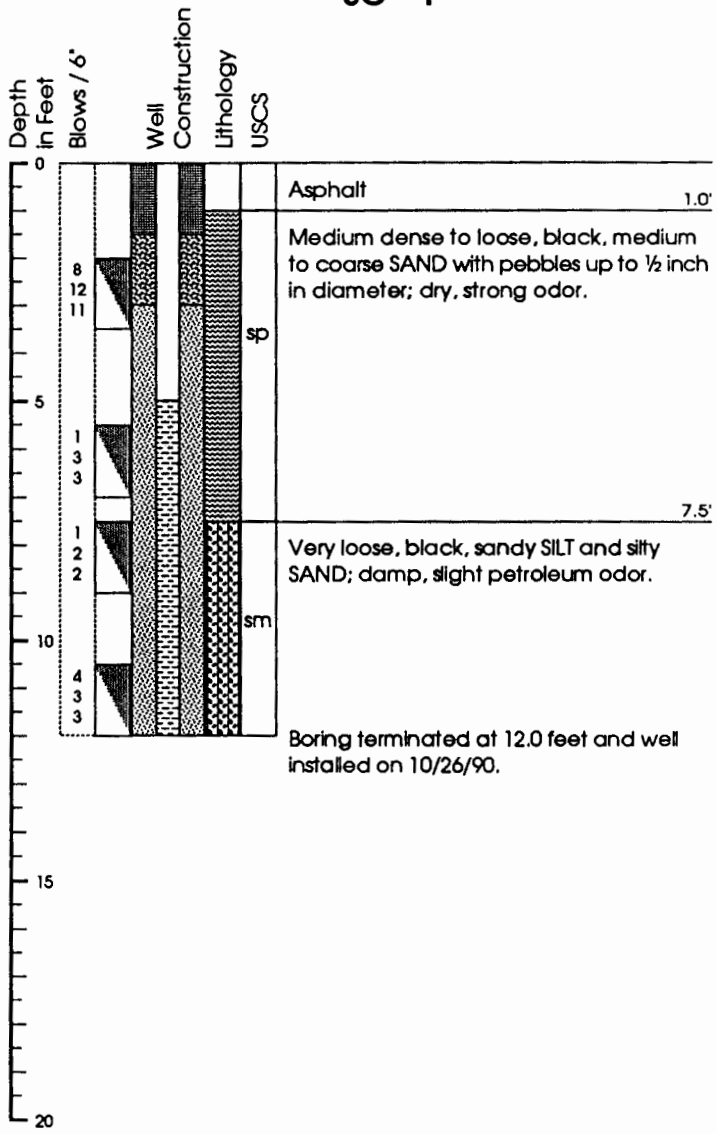
Monitoring Well Construction and Geological Boring Log

DMC

MW - 7



SG - 1



Notes:

Client Name:	Alaska Marine Lines	Drilling Co.:	GeoBoring & Development, Inc.
Project Name:	7100 2 ND Ave.	Drilling Method:	Hollow-Stem Auger
Logged By:	IMW	Reference Elevation:	MW - 7 99.48'

Well Description

Surface Casing:	Flush Mounted	Filter Pack:	10 - 20 Silica Sand
Surface Seal:	Concrete	Seal:	Bentonite
Well Casing:	4" Sched. 40, PVC	Grout:	Concrete
Well Screen:	0.01" slots, Sched 40, PVC		

Monitoring Well: MW-8 DMC

Project: DMC
Client: Dept of Ecology
Location: Seattle, WA
Logged By: TMK

Date Started: 6/18/2008
Date Completed: 6/18/2008
Driller: Cascade Drilling, INC
Drill Method: Post Hole Dig and HSA

Total Boring Depth: 36.5 ft
Hole Diameter: 8.25 in.
Well Depth: 20 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 0.010 Slot ft
Filter Pack: 2/12 Sand
Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
							0	6 inches ASPHALT. Post hole dig to 5 feet below ground surface.	
					SP-SM		1	(SP-SM) Brown fine to medium SAND with silt and ocassional gravel (Fill). Loose, no odor, slight sheen.	
							2		
							3		
							4		
Moist	0.0	6 14 15					5	(SM) Dark brown silty medium to coarse SAND with fine sand and gravel (Fill). Medium dense, no odor slight sheen.	
					SM		6		
							7		
							8		
							9		
Moist	0.0	1 1 2					10	(SM) Dark brown silty fine SAND (Fill). High silt content Loose, no odor, no sheen.	
					SM		11		
							12		
							13		
							14		
Moist	0.0	1 1 2					15	(SM) Black silty fine SAND (Fill). Very loose, no odor, no sheen.	
					SM		16		
							17		
							18		▼
							19		
							20		

DMC

Monitoring Well: MW-8

Project: DMC
Client: Dept of Ecology
Location: Seattle, WA
Logged By: TMK

Date Started: 6/18/2008
Date Completed: 6/18/2008
Driller: Cascade Drilling, INC
Drill Method: Post Hole Dig and HSA

Total Boring Depth: 36.5 ft
Hole Diameter: 8.25 in.
Well Depth: 20 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 0.010 Slot ft
Filter Pack: 2/12 Sand
Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
Wet	0.0	2 2 2			SM		21	(SM) Black silty fine to medium SAND with shells (Fill). Loose, no odor, no sheen.	
							22		
							23		
							24		
Wet	0.0	1 3 4					25		
							26	(ML) Black SILT with trace fine sand and shells (Fill). Soft, no odor, no sheen.	
					ML		27		
							28		
							29		
Wet	5.0	2 2 2		MW-08-30			30	(ML) Black SILT with fine sand and ocassional medium to coarse sand and shells (Fill). Very soft, no odor, moderate sheen.	
					ML		31		
							32		
							33	(SM) Black silty fine to medium SAND (likely sluff from above), heaving sands. Very loose, slight odor, no sheen.	
					SM		34		
Wet	0.0	1 2 2					35		
							36		
							37	Bottom of borehole at 36.5 feet.	
							38		
							39		
							40		

Monitoring Well: MW-9 DMC

Project: DMC
Client: Dept of Ecology
Location: Seattle, WA
Logged By: TMK

Date Started: 6/18/2008
Date Completed: 6/18/2008
Driller: Cascade Drilling, INC
Drill Method: Post Hole Dig and HSA

Total Boring Depth: 21.5 ft
Hole Diameter: 8.25 in.
Well Depth: 20 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 0.010 Slot ft
Filter Pack: 2/12 Sand
Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
							0	3 iinches ASPHALT. Post hole dig to 4 feet below ground surface.	
Moist	0.0	2 3 3			SM		4	(SM) Tan silty SAND with with gravel (suspect shore stabilization grouting) (Fill). Very dense, no odor, no sheen.	
Moist	0.0	6 9 10			GP-GM		9	(GP-GM) Brown sandy GRAVEL with silt and ocassional cobbles and concrete (Fill). Medium dense, no odor, no sheen.	
Moist	0.0	1 3 3		MW-9-15	ML		13	(ML) Dark brown SILT with organics and trace fine sand. (Fill?). Medium stiff, no odor, no sheen.	
Wet	2.1	2 3 4					20	Same as above.	
							22	Bottom of borehole at 21.5 feet.	

DMC

Monitoring Well: MW-10

Project: DMC
Client: Dept of Ecology
Location: Seattle, WA
Logged By: TMK

Date Started: 6/18/2008
Date Completed: 6/18/2008
Driller: Cascade Drilling, INC
Drill Method: Post Hole Dig and HSA

Total Boring Depth: 21.5 ft
Hole Diameter: 8.25 in.
Well Depth: 20 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 0.010 Slot ft
Filter Pack: 2/12 Sand
Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
Moist	0.0				GM		1	7 inches ASPHALT. Post hole dig to 5 feet below ground surface. (GM) Brown sandy GRAVEL with silt (Base coarse-Fill). Very dense, no odor, no sheen.	
Moist	0.0	1 2 50			ML		5	(ML) Gray-white SILT with ocassional fine gravel and sand (Fill). Hard, no odor, slight sheen.	
Moist	0.0	8 22 23			GP		10	(GP) Tan-gray sandy GRAVEL with silt (Fill?). Very dense, no odor, no sheen.	
Wet	0.0	3 1 1			ML		15	(ML) Black SILT with ocassional gravel and trace organics (Fill?). Very soft, musty odor, no sheen.	
Wet	6.0	2 2 1		MW-10-20	ML		20	(ML) Same as above.	
							22	Bottom of borehole at 21.5 feet.	

DMC

Monitoring Well: MW-11

Project: DMC
Client: Dept of Ecology
Location: Seattle, WA
Logged By: TMK

Date Started: 6/19/2008
Date Completed: 6/19/2008
Driller: Cascade Drilling, INC
Drill Method: Post Hole Dig and HSA

Total Boring Depth: 21.5 ft
Hole Diameter: 8.25 in.
Well Depth: 20 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 0.010 Slot ft
Filter Pack: 2/12 Sand
Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
							0	3 inches ASPHALT. Post hole dig to 5 feet below ground surface.	
							1	8 inches CONCRETE.	
							2		
							3		
							4	2 inch root in boring at approximately 5 feet below ground surface.	
Moist	0.01	4 3 2			SM		5	(SM) Brown silty fine to medium SAND with coarse sand and ocassional gravel (Fill). Loose, no odor, slight sheen.	
							6	(ML) Light brown fine sandy SILT with trace large gravel (Fill). Soft, no odor, slight sheen.	
					ML		7		
							8		
							9		
Moist	0.03	4 4 4					10	Same as above.	
							11	(SP) Brown medium SAND with trace silt (Fill?). Loose, no odor, slight sheen.	
					SP		12		
							13		
							14		
Wet	0.01/0.02	1 1 1		MW-11-15			15	Same as above. Grades to wet.	
							16	(SM) Dark brown to black silty fine SAND (Fill?). Very loose, no odor, no sheen.	
					SM		17		
							18		
							19		
Wet	0.04	1 1 1			SM		20	(SM) Black silty fine SAND with trace organics (Fill?). Very loose, no odor, no sheen.	
							21		
							22	Bottom of borehole at 21.5 feet.	
							23		
							24		
							25		

DMC

Monitoring Well: MW-12

Project: DMC
Client: Dept of Ecology
Location: Seattle, WA
Logged By: TMK

Date Started: 6/19/2008
Date Completed: 6/19/2008
Driller: Cascade Drilling, INC
Drill Method: Post Hole Dig and HSA

Total Boring Depth: 36.5 ft
Hole Diameter: 8.25 in.
Well Depth: 20 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 0.010 slot ft
Filter Pack: 2/12 Sand
Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
							0	12 inches ASPHALT. Post hole dig to 4 feet below ground surface.	
Moist	3.7				GP		1	(GP) Gray-brown fine to coarse sandy GRAVEL with silt (Likely UST fill). Dense, no odor, slight sheen.	
							2		
							3		
Moist	2.5	50					4	(GP) Same as above. Grades to very dense. Likely UST fill. Very little recovery.	
							5		
							6		
					GP		7		
							8		
							9		
Moist	3.6	5 4 5					10	(GP) Same as above. Valid sample questionable, based on blow count comparison from above. Likely UST fill. Very little recovery. Possible beginning transition into different soil content.	
					GP		11		
							12		
							13		
							14		
Wet	28.6/2.1	2 2 1		MW-12-15	SM		15	(SM) Brown silty fine to coarse SAND with ocassional gravel (Fill). Loose, slight odor, slight sheen. Very little portion of sample to collect.	▼
							16	Black silty fine SAND (Fill?). Very loose, no odor, no sheen.	
							17		
							18		
							19		
							20		

DMC

Monitoring Well: MW-12

Project: DMC
Client: Dept of Ecology
Location: Seattle, WA
Logged By: TMK

Date Started: 6/19/2008
Date Completed: 6/19/2008
Driller: Cascade Drilling, INC
Drill Method: Post Hole Dig and HSA

Total Boring Depth: 36.5 ft
Hole Diameter: 8.25 in.
Well Depth: 20 ft
TOC Elevation: ft

Well Diameter: 2 in
Well Screen: 0.010 slot ft
Filter Pack: 2/12 Sand
Well Casing: Schedule 40 PVC

MOISTURE CONTENT	ORGANIC VAPOR (ppm)	BLOWS/6"	SAMP. INTERVAL	ANALYTICAL SAMPLE	U.S.C.S. SYMBOL	GRAPHIC LOG	DEPTH (ft)	LITHOLOGY/DESCRIPTION	WELL DIAGRAM
Wet	1.1	2 2 2			SM		21	(SM) Same as above.	
							22		
							23		
							24		
Wet	13.2	1 1 2		MW-12-25	SM		25	(SM) Black silty fine to medium SAND with organics (Native?). Loose, slight odor, moderate sheen.	
							26		
							27		
							28		
							29		
Wet	3.3	4 5 6			SP-SM		30	(SP-SM) Black fine to medium SAND with silt. Medium dense, no odor, slight sheen.	
							31		
							32		
							33		
							34		
Wet	3.6	6 28 50			SP-SM		35	(SP-SM) Same as above.	
							36		
							37	Bottom of borehole at 36.5 feet.	
							38		
							39		
							40		

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/ Quarry Spalls
	TS	Topsoil/ Forest Duff/Sod

Groundwater Contact

Measured groundwater level in exploration, well, or piezometer

Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Material Description Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
PPM	Parts per million
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS

GeoEngineers

FIGURE A-1

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
7/11/2013	7/11/2013	41	TML / RST	Cascade Drilling	Hollow Stem Auger

Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	17.79	Top of Casing Elevation (ft)	17.37
Easting (X) Northing (Y)	1269973.33 200473.26	Horizontal Datum	NAD83

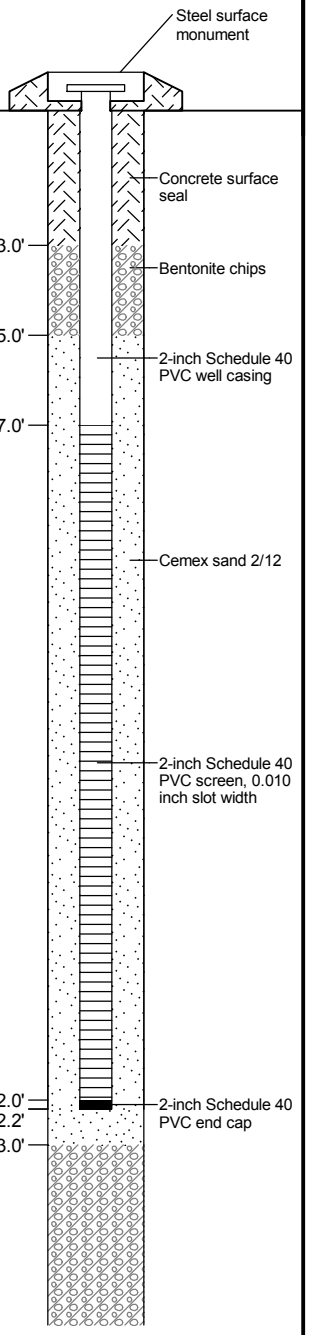
DOE Well I.D.: BIC 627
A 2 (in) well was installed on 7/11/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/20/2013	11.16	6.21

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0							AC	Approximately 4 inches asphalt concrete		
								SM	Dark brown silty fine to coarse sand with gravel (medium dense, moist) (fill)		
15		10	24		1			SM	Light gray silty fine sand with gravel (medium dense, moist)	NS	<1
	5	14	10		2			SM	Dark brown silty fine to medium sand (medium dense, moist)	NS	<1
								SM	Gray silty fine sand (medium dense, moist)		
10		15	5		3			SM	Brown silty fine sand (loose, moist)	NS	<1
	10	17	7		4 CA	▼		SM	Dark brown silty fine sand (loose, moist)	NS	<1
5		16	5		5			SM	Dark brown silty fine sand (loose, wet)	NS	<1
	15	16	5		6			SM	Dark brown to gray silty fine to medium sand (loose, wet)	NS	<1
0		15	5		7			SM	Dark brown silty fine sand with wood debris (loose, wet)	NS	<1
	20	17	5		8			SM	Dark brown silty fine to medium sand (loose, wet)	NS	<1
-5		17	6		9			SM	Dark brown to gray silty fine sand (loose, wet)	NS	<1
	25	16	4		10				2 inch layer of debris starting at 24.5 feet	NS	<1
									2 inch layer of debris starting at 26 feet		

WELL LOG



Note: See Figure A-1 for explanation of symbols.

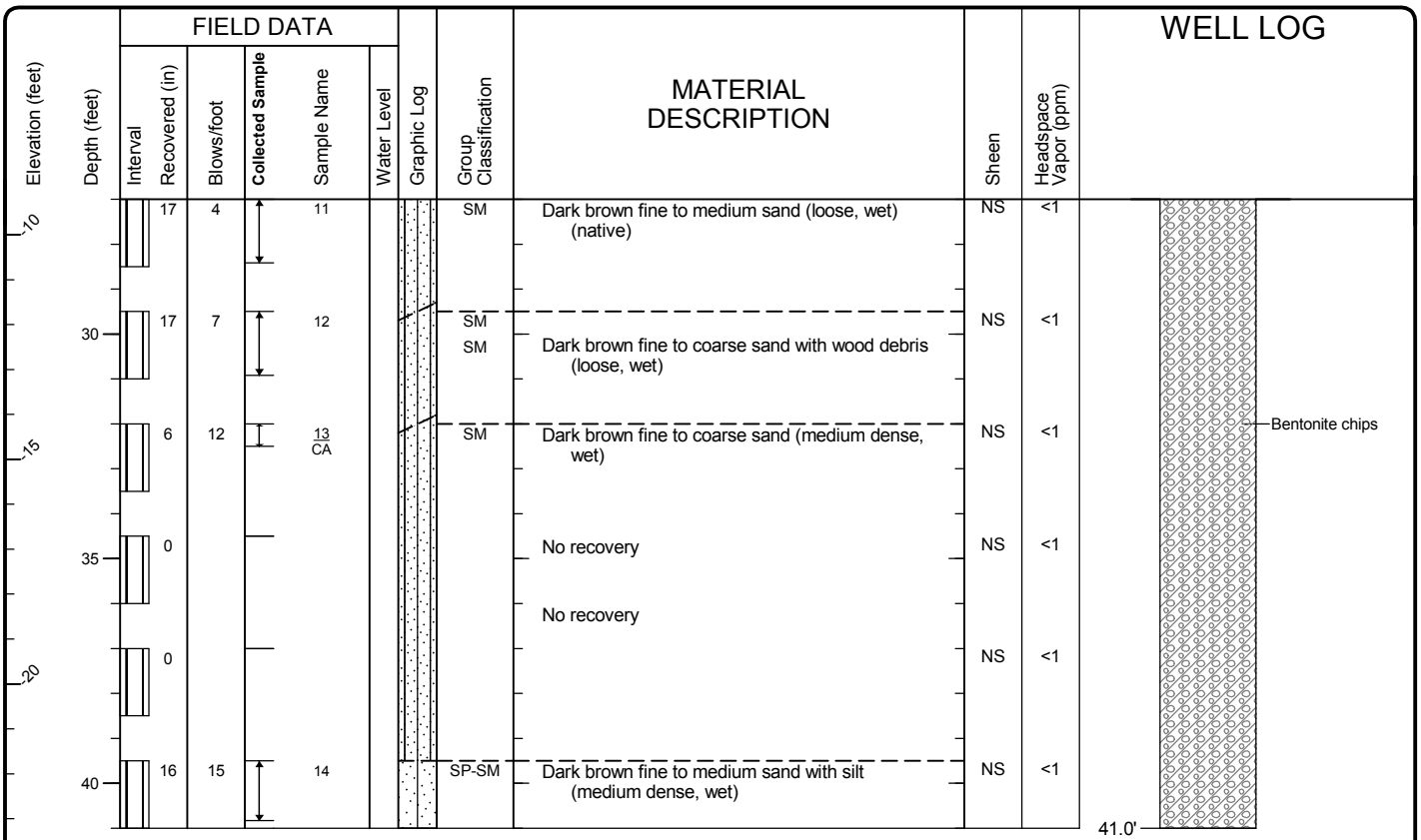
Log of Monitoring Well MW-2R (DMC-MW2R)

GeoEngineers

Project:	7100 1st Avenue S Site
Project Location:	Seattle, Washington
Project Number:	0275-015-02

Figure A-13
Sheet 1 of 2

Seattle: Date:8/23/13 Path:\\SEA\PROJECTS\0\0275015\02\GINT\0275015 02.GPJ DBTemplate\LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-2R (continued) (DMC-MW2R

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-13
Sheet 2 of 2

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
7/12/2013	7/12/2013	38.5	TML / RST	Cascade Drilling	Hollow Stem Auger

Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	18	Top of Casing Elevation (ft)	17.60
Easting (X) Northing (Y)	1270168.34 200441.16	Horizontal Datum	NAD83

DOE Well I.D.: BIC 628
A 2 (in) well was installed on 7/12/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/14/2013	11.83	5.77

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0							AC	Approximately 4 inches asphalt concrete		
								WD	Approximately 8 inches organic and wood debris (fill)		
								CC	Concrete debris		
		0	-							NS	<1
								SM	Brown silty fine to coarse sand with gravel (medium dense, moist)		
	5	8	10		1					NS	<1
		5	4		2					NS	<1
	10	6	4		3					NS	<1
								SM	Approximately ¼ inch layer of gray silty fine sand		
									Brown sand with silt (loose, moist)		
		16	4		4 CA					NS	<1
								SM	Brown to gray silty fine sand (loose, wet)		
								SP-SM	Brown sand with silt (loose, wet)		
	15	17	6		5					NS	<1
								SM	Dark brown to gray silty fine sand (loose, wet)		
								SM	Gray silty fine sand (loose, wet)		
		16	6		6					NS	<1
								SM	Dark brown to balck silty fine sand (loose, wet)		
	20	14	8		7					NS	<1
		17	6		8					NS	<1
								SM	Black silty fine sand (loose, wet) (native?)		
	25	17	5		9 CA					SS	<1
								SM			

WELL LOG

Steel surface monument
Concrete surface seal
3.0'
Bentonite chips
5.0'
2-inch Schedule 40 PVC well casing
7.0'
Cemex sand 2/12
2-inch Schedule 40 PVC screen, 0.010 inch slot width
22.0'
22.2'
23.0'
2-inch Schedule 40 PVC end cap

Note: See Figure A-1 for explanation of symbols.

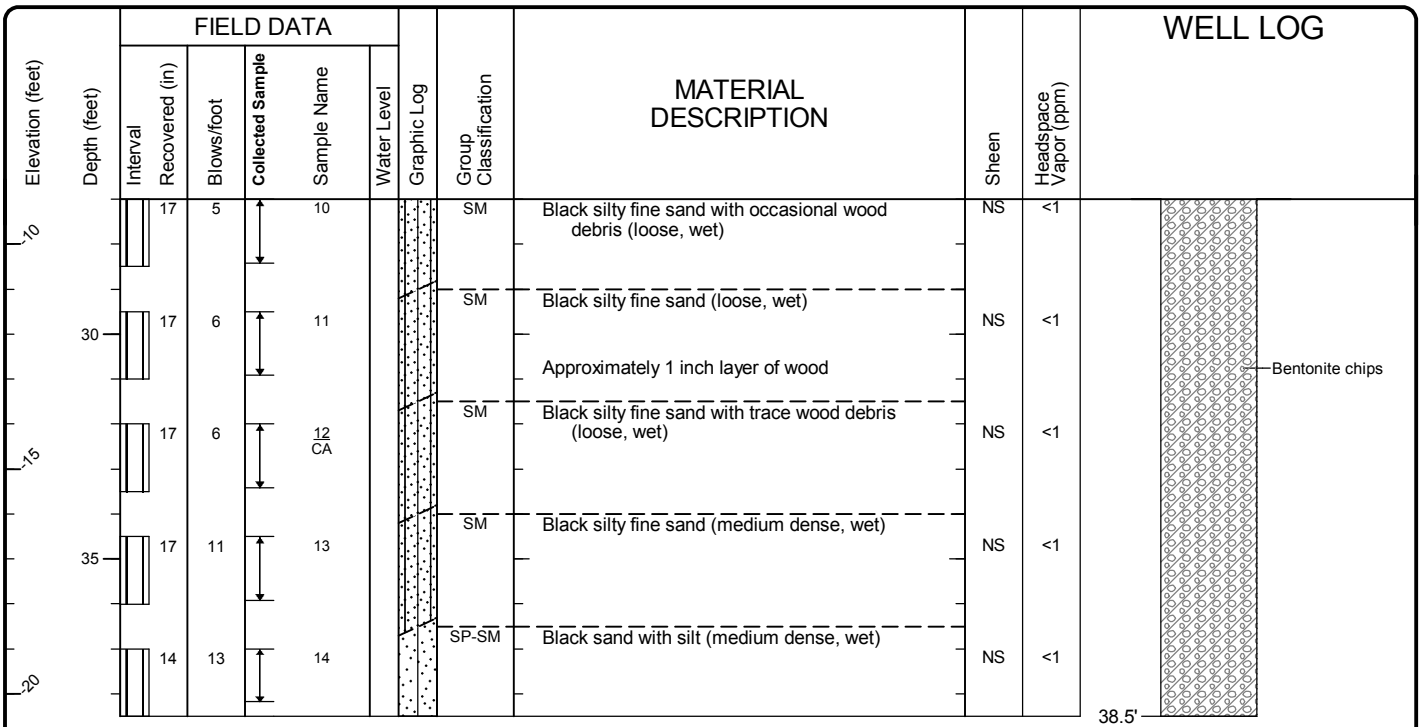
Log of Monitoring Well MW-13 (DMC-MW13)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-14
Sheet 1 of 2

Seattle: Date:8/26/13 Path:\\SEA\PROJECTS\0027501502\GINT\0275015O2.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-13 (continued) (DMC-MW13)

GeoEngineers

Project:	7100 1st Avenue S Site
Project Location:	Seattle, Washington
Project Number:	0275-015-02

Figure A-14
Sheet 2 of 2

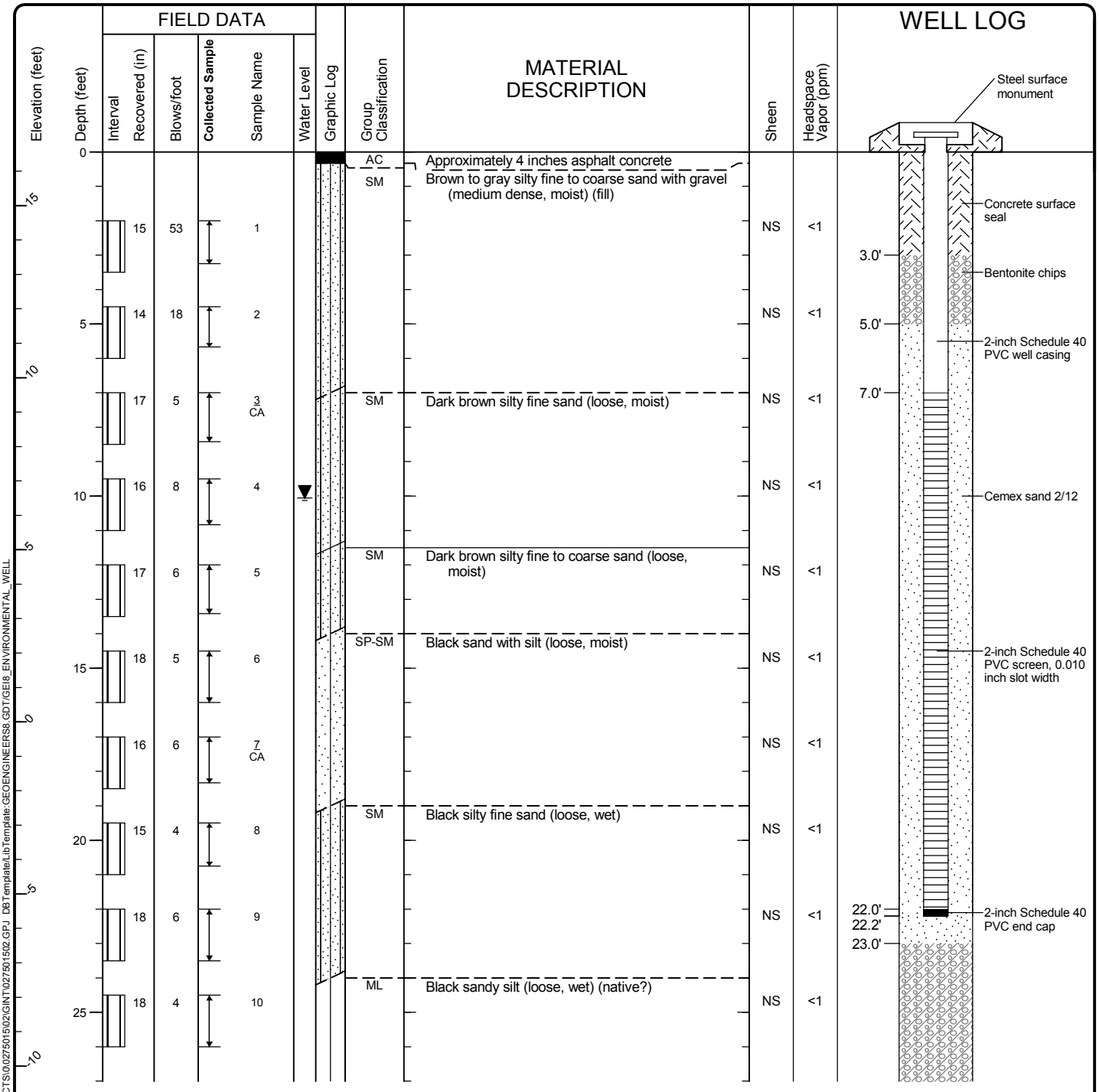
Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	7/9/2013	7/9/2013	36	TML	RST	Cascade Drilling	Hollow Stem Auger

Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	16.56	Top of Casing Elevation (ft)	16.16
Easting (X) Northing (Y)	1270057 200570.54	Horizontal Datum	NAD83

DOE Well I.D.: BIC 623
A 2 (in) well was installed on 7/9/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/19/2013	10.1	6.5

Notes:



Note: See Figure A-1 for explanation of symbols.

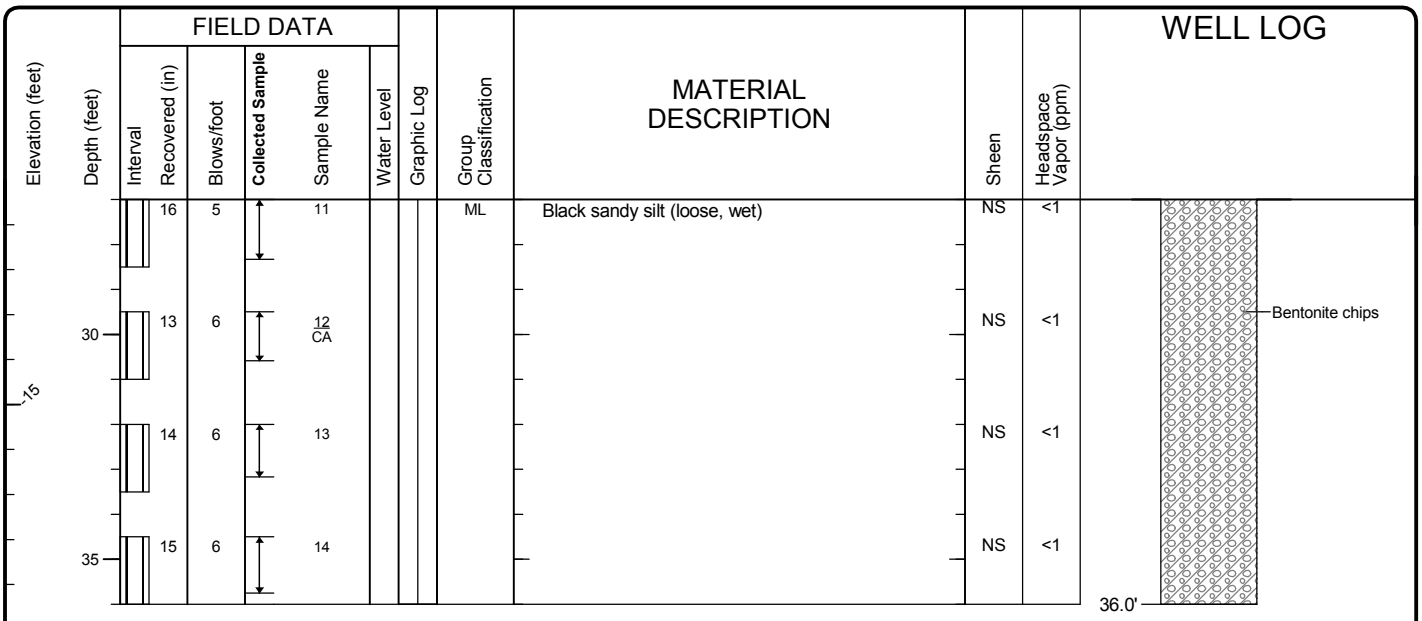
Log of Monitoring Well MW-14 (DMC-MW14)

GeoEngineers

Project:	7100 1st Avenue S Site
Project Location:	Seattle, Washington
Project Number:	0275-015-02

Figure A-15
Sheet 1 of 2

Seattle: Date:8/23/13 Path:\\SEA\PROJECTS\0027501502\GINT\0275015 02.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-14 (continued) DMC-MW14)

GeoEngineers

Project:	7100 1st Avenue S Site
Project Location:	Seattle, Washington
Project Number:	0275-015-02

Figure A-15
Sheet 2 of 2

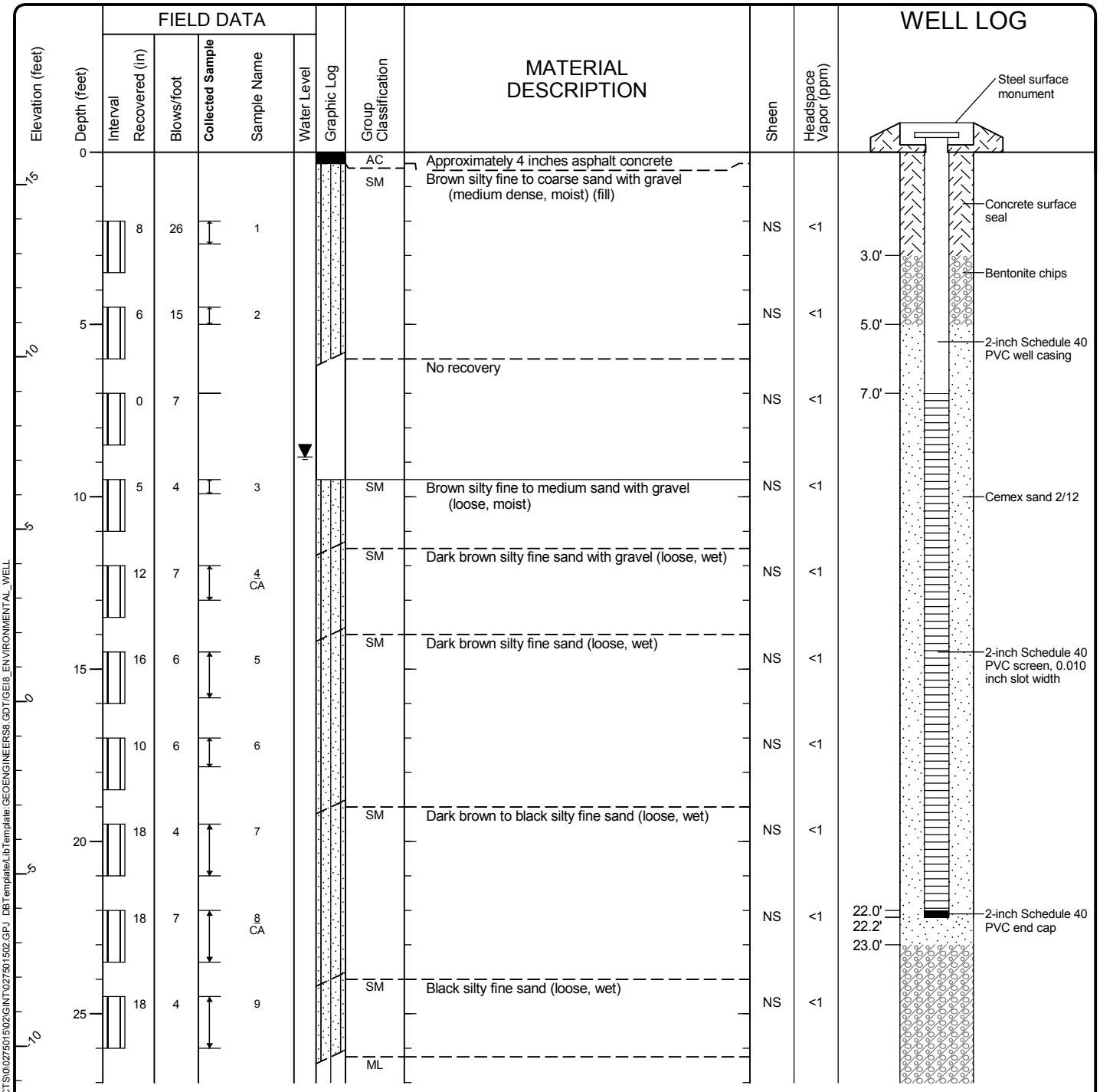
Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	7/9/2013	7/9/2013	36	TML	RST	Cascade Drilling	Hollow Stem Auger

Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	15.94	Top of Casing Elevation (ft)	15.49
Easting (X) Northing (Y)	1269984.93 200652.57	Horizontal Datum	NAD83

DOE Well I.D.: BIC 622
A 2 (in) well was installed on 7/9/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/15/2013	8.85	6.64

Notes:



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-15 (DMC-MW15)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-16
Sheet 1 of 2

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG
			18	4		10			ML	Black sandy silt (soft, wet) (native?)	NS	<1	
	30		18	3		11					NS	<1	Bentonite chips
-15			18	5		12					NS	<1	
	35		18	6		13 CA					NS	<1	
-20													36.0'

Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-15 (continued) DMC-MW15)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-16
Sheet 2 of 2

Seattle: Date:8/23/13 Path:\\SEA\PROJECTS\0\0275\015\02\GINT\0275015002.GPJ DBTemplate\LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
7/10/2013	7/10/2013	36	TML / RST	Cascade Drilling	Hollow Stem Auger

Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	18.24	Top of Casing Elevation (ft)	17.59
Easting (X) Northing (Y)	1269911.75 200514.57	Horizontal Datum	NAD83

DOE Well I.D.: BIC 625
A 2 (in) well was installed on 7/10/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/14/2013	11.34	6.25

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0							AC	Approximately 4 inches asphalt concrete		
								CC	Approximately 6 inches concrete debris		
		12	18		1			SM	Brown silty fine to coarse sand with gravel and trace concrete debris (medium dense, moist) (fill)	NS	<1
	5	13	10		2			SM	Dark brown silty fine to coarse sand (medium dense, moist)	NS	<1
		16	8		3			SM	Gray silty fine sand (loose, moist)	NS	<1
								ML	Black sandy silt (soft, moist)		
	10	16	6		4			SM	Dark brown silty fine sand (loose, moist)	NS	<1
		17	6		5 CA			SM	Dark brown silty fine to medium sand (loose, wet)	NS	<1
								ML	Black sandy silt (soft, wet)		
	15	17	6		6					NS	<1
		17	4		7			SM	Black silty fine sand (loose, wet)	NS	<1
	20	15	6		8			SM	Black silty fine sand with occasional wood debris (loose, wet)	NS	<1
		17	6		9			SM	Black silty fine sand (loose, wet)	NS	<1
	25	17	6		10 CA			SM	Gray to black silty fine sand (loose, wet)	HS	114
								SM			

WELL LOG

Steel surface monument
Concrete surface seal
3.0'
Bentonite chips
5.0'
2-inch Schedule 40 PVC well casing
7.0'
Cemex sand 2/12
2-inch Schedule 40 PVC screen, 0.010 inch slot width
22.0'
22.2'
23.0'
2-inch Schedule 40 PVC end cap

Note: See Figure A-1 for explanation of symbols.

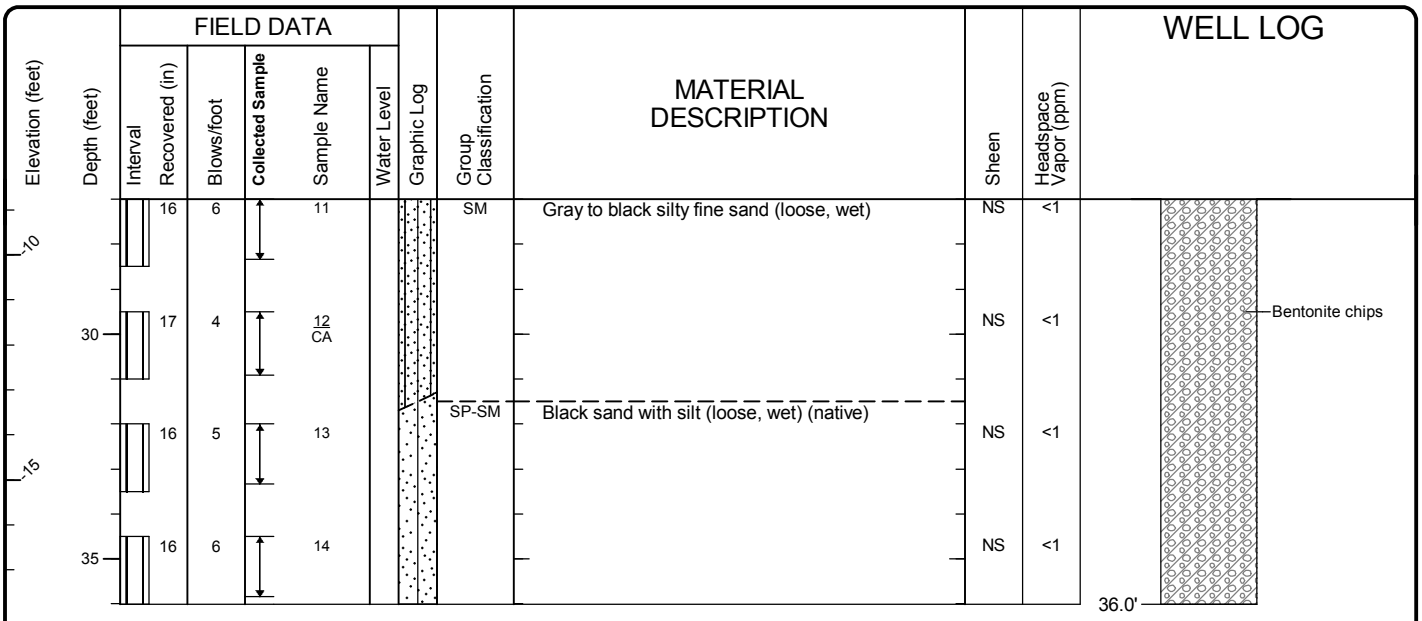
Log of Monitoring Well MW-16

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-17
Sheet 1 of 2

Seattle: Date:8/26/13 Path:\\SEA\PROJECTS\0027501502\GINT\0275015O2.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-16 (continued) (DMC-MW16)

GeoEngineers

Project:	7100 1st Avenue S Site
Project Location:	Seattle, Washington
Project Number:	0275-015-02

Figure A-17
Sheet 2 of 2

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	7/12/2013	7/12/2013	38.5	TML	RST	Cascade Drilling	Hollow Stem Auger

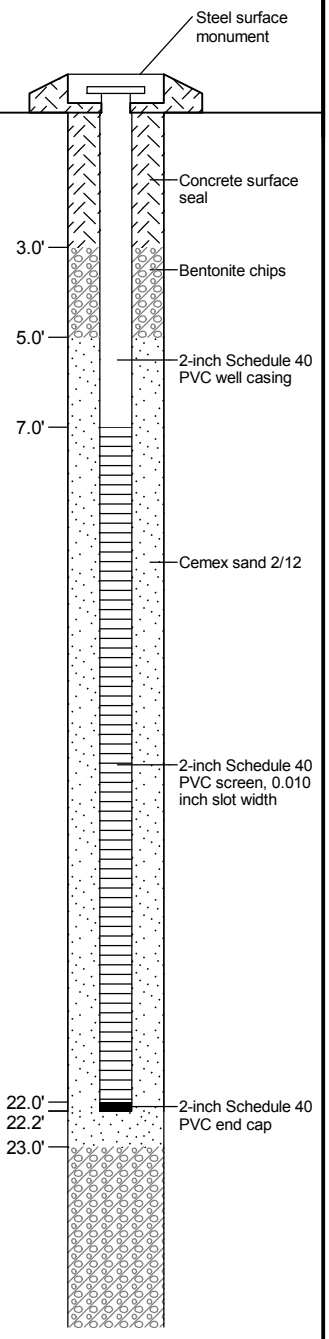
Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	17.01	Top of Casing Elevation (ft)	16.51
Easting (X) Northing (Y)	1269896.95 200611.47	Horizontal Datum	NAD83

DOE Well I.D.: BIC 638
A 2 (in) well was installed on 7/12/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/19/2013	10.0	7.0

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0							AC	Approximately 8 inches asphalt concrete		
								SM	Brown silty fine to coarse sand with gravel and occasional concrete debris (very dense, moist)		
15		12	50/6"		1					NS	<1
	5	14	22		2					NS	<1
10		16	13		3					NS	<1
								SM	Gray silty fine sand (medium dense, moist)		
	10	17	4		4	▼				NS	<1
5								SM	Black silty fine sand with occasional wood debris (loose, wet)		
		17	8		5 CA					NS	<1
								SM	Black silty fine sand (medium dense, wet)		
	15	14	10		6					NS	<1
0		17	4		7					NS	<1
								SM	Black silty fine sand with occasional wood debris (loose, wet)		
	20	17	5		8					NS	<1
5		15	7		9					NS	<1
	25	17	8		10					SS	9
								SP-SM	Black sand with silt (loose, wet)		
								SM			



Note: See Figure A-1 for explanation of symbols.

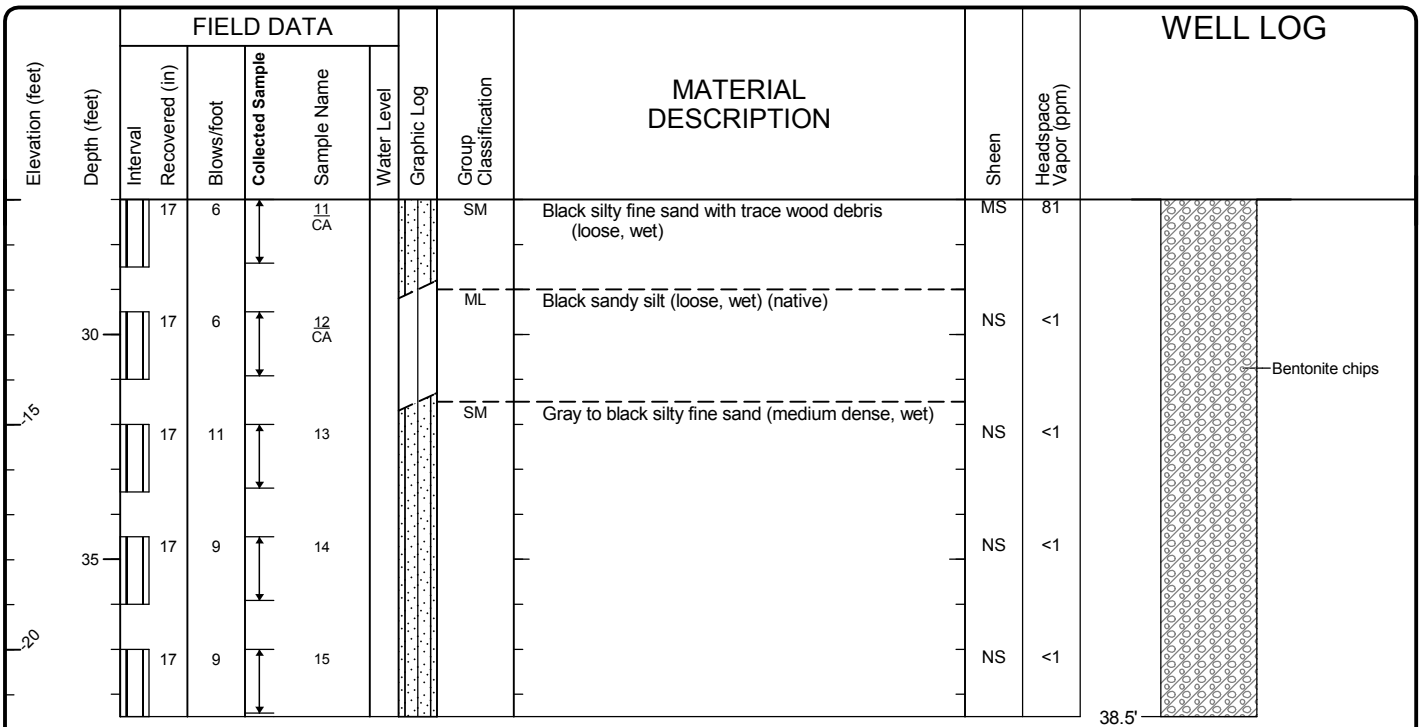
Log of Monitoring Well MW-17 (DMC-MW17)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-18
Sheet 1 of 2

Seattle: Date:8/23/13 Path:\\SEA\PROJECTS\0027501502\GINT\0275015 02.GPJ DBTemplate\LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-17 (continued) (DMC-MW17)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-18
Sheet 2 of 2

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	7/11/2013	7/11/2013	38.5	TML	RST	Cascade Drilling	Hollow Stem Auger

Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	17.9	Top of Casing Elevation (ft)	17.60
Easting (X) Northing (Y)	1270047.89 200466.66	Horizontal Datum	NAD83

DOE Well I.D.: BIC 626
A 2 (in) well was installed on 7/11/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/20/2013	11.12	6.48

Notes:

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0								AC	Approximately 4 inches asphalt concrete		
									CC	Approximately 4 inches concrete debris		
									SM	Brown to gray silty fine to coarse sand with gravel (dense, moist) (fill)		
15			14	40		1					SS	<1
									SM	Brown silty fine to coarse sand (medium dense, moist)		
	5		13	13		2					NS	<1
									SM	Brown silty fine to coarse sand with gravel (medium dense, moist)		
10			9	14		3					NS	<1
	10		17	5		4					NS	<1
									SM	Gray silty fine sand (loose, moist)		
5			17	6		5 CA			SM	Dark brown silty fine to medium sand (loose, wet)	NS	<1
	15		17	5		6			SP-SM	Dark brown to gray sand with silt (loose, wet)	NS	<1
									SM	Black silty fine sand (loose, wet)		
0			17	5		7					NS	<1
	20		17	4		8					NS	<1
5			14	5		9					NS	<1
									SM	Black silty fine sand with occasional wood debris (loose, wet)		
	25		15	5		10					SS	<1
									SM			

WELL LOG

Steel surface monument
Concrete surface seal
3.0' Bentonite chips
5.0' 2-inch Schedule 40 PVC well casing
7.0' Cemex sand 2/12
2-inch Schedule 40 PVC screen, 0.010 inch slot width
22.0' 22.2' 23.0' 2-inch Schedule 40 PVC end cap

Note: See Figure A-1 for explanation of symbols.

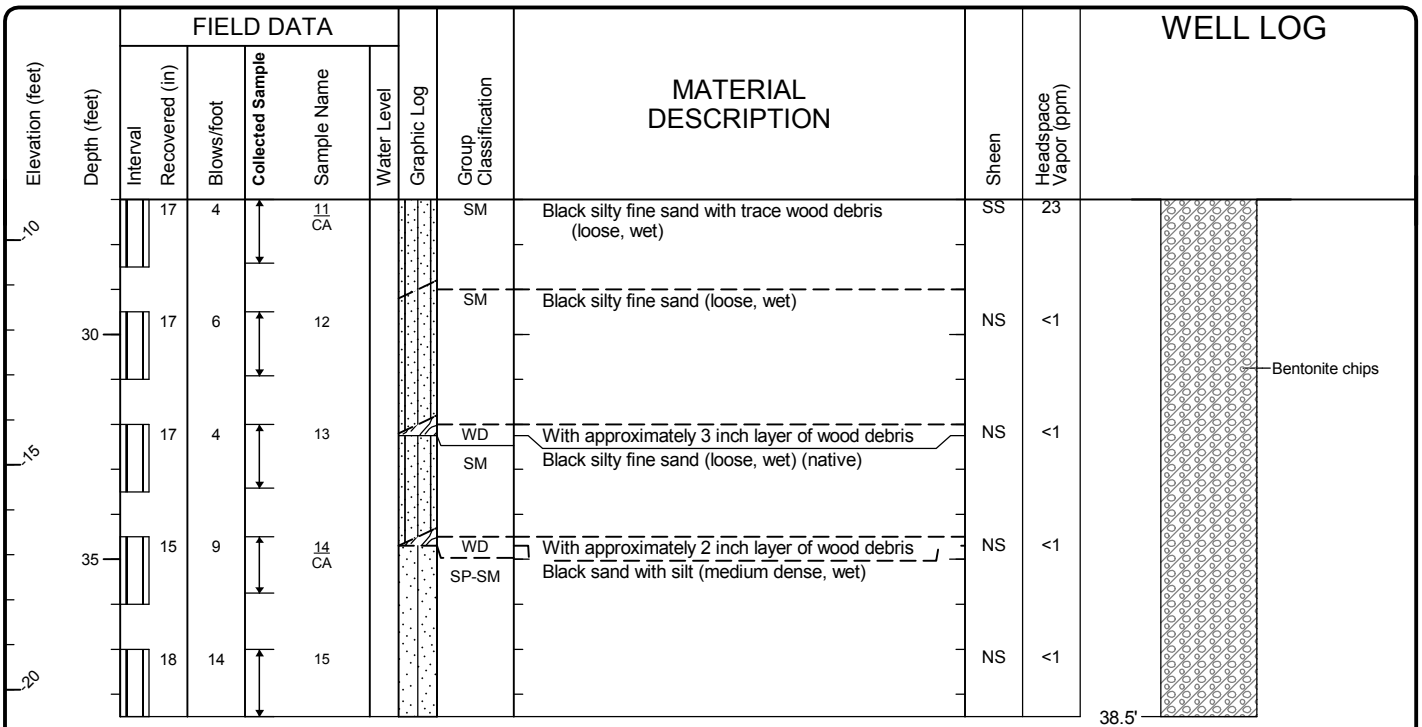
Log of Monitoring Well MW-18 (DMC-MW18)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-19
Sheet 1 of 2

Seattle: Date:8/23/13 Path:\\SEA\PROJECTS\0027501502\GINT\0275015 02.GPJ DBTemplate\LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-18 (continued) (DMC-MW18)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-19
Sheet 2 of 2

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	7/10/2013	7/10/2013	36	TML	RST	Cascade Drilling	Hollow Stem Auger

Hammer Data	Down Hole 300 (lbs) / 30 (in) Drop	Drilling Equipment	CME 75
Surface Elevation (ft) Vertical Datum	17.49	Top of Casing Elevation (ft)	16.99
Easting (X) Northing (Y)	1269975.89 200513.64	Horizontal Datum	NAD83

DOE Well I.D.: BIC 624
A 2 (in) well was installed on 7/10/2013 to a depth of 22 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/20/2013	10.80	6.19

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
	0							AC	Approximately 4 inches asphalt concrete		
		15	30					SM	Brown silty fine to coarse sand with gravel and occasional wood debris (dense, moist)	NS	<1
15											
	5	16	10		2			SM	Dark brown silty fine to medium sand with occasional gravel (medium dense, moist)	NS	<1
		14	7		3			SM	Dark brown silty fine sand with trace wood debris (loose, moist)	NS	<1
10											
	10	18	7		4			SM	Dark brown silty fine sand (loose, moist)	NS	<1
5		18	6		5 CA			SM	Dark brown silty fine to medium sand (loose, wet)	NS	<1
		18	6		6			SM	Dark brown silty fine sand (loose, wet) With approximately 1 to 2 inch layer of wood debris	NS	<1
	15										
0		18	6		7			SM	Black silty fine sand (loose, wet)	NS	<1
	20	14	4		8 CA			SM	Black silty fine sand with occasional wood debris (loose, wet)	NS	<1
5		18	6		9			ML	Black sandy silt (soft, wet)	NS	<1
								SM	Black silty fine sand (loose, wet)	SS	<1
	25	15	4		10			ML			

WELL LOG

Steel surface monument
Concrete surface seal
3.0'
Bentonite chips
5.0'
2-inch Schedule 40 PVC well casing
7.0'
Cemex sand 2/12
2-inch Schedule 40 PVC screen, 0.010 inch slot width
22.0'
22.2'
23.0'
2-inch Schedule 40 PVC end cap

Note: See Figure A-1 for explanation of symbols.

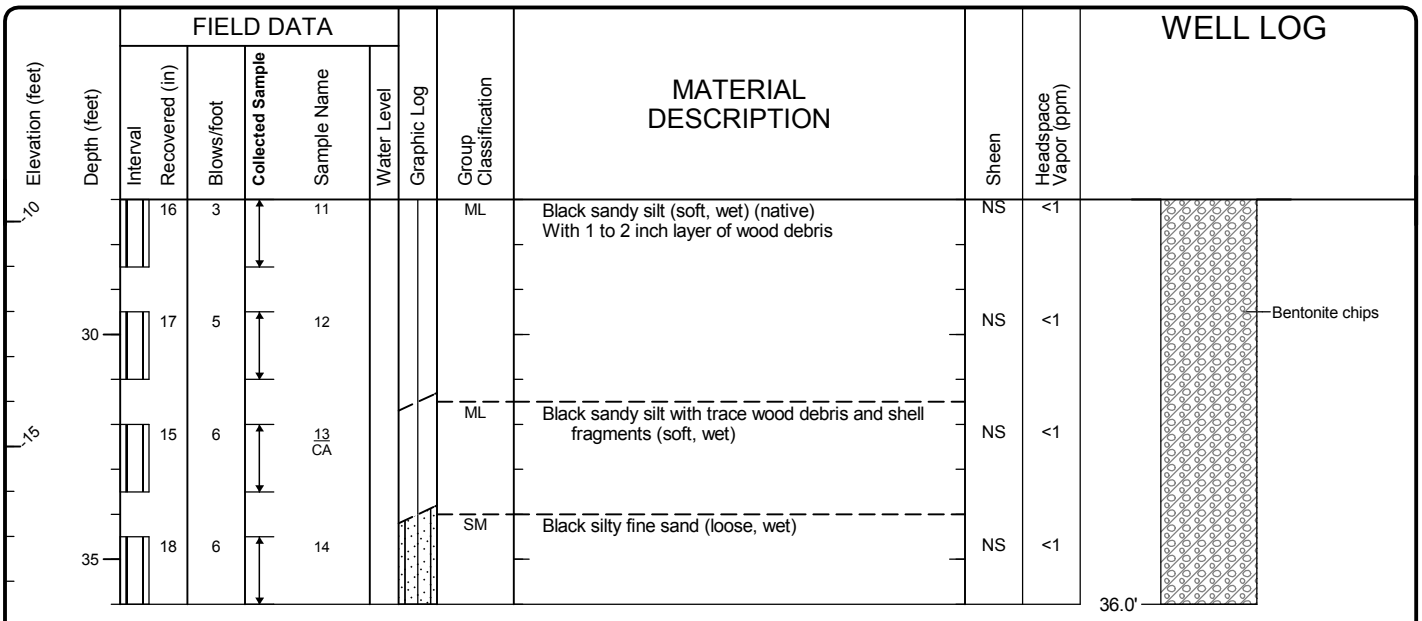
Log of Monitoring Well MW-19 (DMC-MW19)

GeoEngineers

Project: 7100 1st Avenue S Site
Project Location: Seattle, Washington
Project Number: 0275-015-02

Figure A-20
Sheet 1 of 2

Seattle: Date:8/23/13 Path:\\SEA\PROJECTS\0027501502\GINT\0275015 02.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-19 (continued)

DMC-MW19)

GeoEngineers

Project:	7100 1st Avenue S Site
Project Location:	Seattle, Washington
Project Number:	0275-015-02

Figure A-20
Sheet 2 of 2

Dalton, Olmsted Fuglevand, Inc.
Environmental Consultants

ICS / Former NW Cooperage
Seattle, Washington

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DMC-MWA**

Field Rep: D. Cooper
Drilling Co.: Cascade
Driller: James Goble
Drill Type: CME 55
Size/Type Casing: 10" HSA

Location: N200383.1 E1269954.5 NAD83 Ecology ID# BJA570
Ground surface elevation: 17.74 ft. NAVD88 (N. rim monument)
Date Completed: 02/12/15
Weather: Cloudy 50F
Sampler: 3" dia. SPT

Spl. No.	Type Sample Saved	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
				0-20		-	0920	No Sampling from 0-20'. Lean concrete in cuttings
		17.3	SLO/MS	20-21.5	18	4/4/3		Loose, sat, gry, F-M SAND slight sheen, oily odor
		1.7	SLO/SS	21.5-23	18	3/3/3		M stiff, sat, blk, SILT
		2.5	SLO/SS	23-24.5	18	6/5/5		As Above
MWA	Composite 24.5-26'	3.2	SLO/SS	24.5-26	18	4/7/8	1015	M dense, sat, blk, F-M SAND spotty sheen
		1	SLO/SS	26-27.5	18	11/10/13		M dense, sat, blk, F SAND spotty sheen
		3.3	SLO/SS	27.5-29	18	8/5/8		As Above
		1.9	SLO/SS	29-30.5	18	7/6/6		As Above

Bottom of boring @ 30.5'

Depth(ft.)

0 **SUMMARY LOG**

10

20 Loose, saturated, black Fine SAND
21.5 Slight odor, moderate sheen

Medium stiff, wet, black SILT

23.5

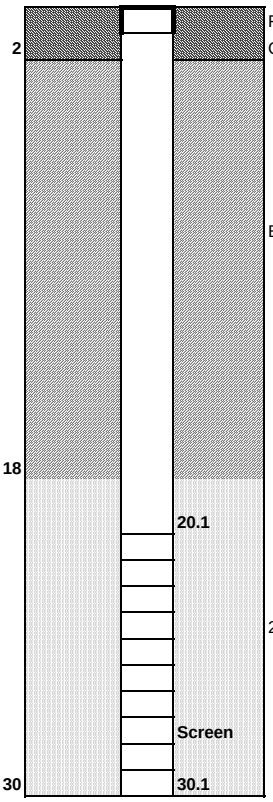
Medium Dense, saturated, black
Fine SAND
spotty sheen, slight odor

30

(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

TOC Elevation: 17.10 ft. (NAVD88)
Riser: 2" dia.SCH 40 PVC
Length: 19.8'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 19.8/29.8
0.3' end cap
Sandpack: 2/12 colorado sand
Seal: Bentonite chip
(top/bot) 2/18
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium, sat = pores saturated with water

LOG DMC-MWA

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DMC-MWB**

Field Rep: D. Cooper | Location: N200401.5 E1270065.7 NAD83 | Ecology ID# BJA571
Drilling Co.: Cascade | Ground surface elevation: 18.41 ft. NAVD88 (N. rim mounument)
Driller: James Goble | Date Completed: 02/12/15
Drill Type: CME 55 | Weather: Cloudy 50F
Size/Type Casing: 10" HSA | Sampler: 3" dia. SPT

Spl. No.	Type Sample Saved	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
				0-20		-	1230	No Sampling from 0-20'. Lean concrete in cuttings
		0.2	NO/NS	20-21.5	18	5/7/5		M dense, sat, gry, F-M SAND 0.3' SILT interbed
		1.0	NO/NS	21.5-23	18	4/3/3		M stiff, wet, blk, F sandy, SILT
		46.5	SLO/NS	23-24.5	18	4/5/5		Stiff, wet, blk, SILT
MWB	Composite 24.5-26'	6.7	NO/NS	24.5-26	18	5/4/5	1310	As Above
		1.8	NO/NS	26-27.5	18	5/4/4		As Above
		1.9	NO/NS	27.5-29	18	2/3/3		Loose, sat, blk, silty, F SAND
		1.4	NO/NS	29-30.5	18	5/5/11		M dense, sat, blk, silty, F-M SAND
		2.1	NO/NS	30.5-32	18	4/7/7		M dense, sat. blk, F-M SAND

Bottom of boring @ 32.0'

Depth(ft.)

0 **SUMMARY LOG**

10

20 Loose, saturated, black Fine to Medium SAND

21.1

Medium stiff to stiff, wet, black SILT

27.5

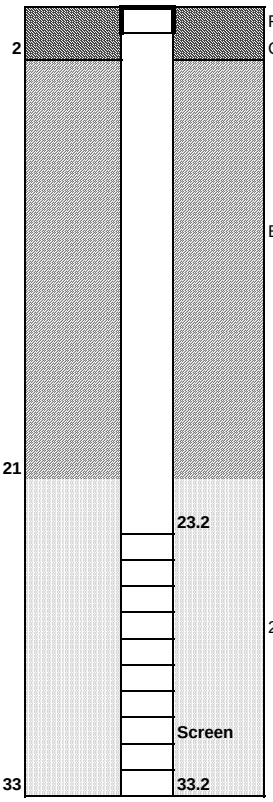
Medium Dense, saturated, black
Silty Fine SAND, grading to Fine to medium SAND

32

(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

TOC Elevation: 18.00 ft, NAVD)
Riser: 2" dia.SCH 40 PVC
Length: 23.2'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 23.2/33.2
0.3' end cap
Sandpack: 2/12 colorado sand
Seal: Bentonite chip
(top/bot) 2/21
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium, sat = pores saturated with water

DESCRIPTION OF SAMPLES, TESTS, AND INSTALLATION - MONITORING WELL NO. **DMC-MWC**

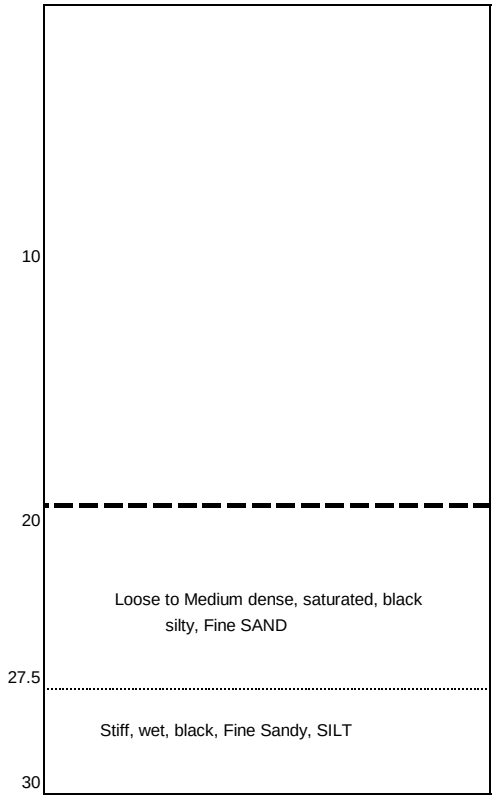
Field Rep: D. Cooper — Location: N200397.7 E1270178.7 NAD83 — Ecology ID# BJA572
Drilling Co.: Cascade — Ground surface elevation: 17.75 ft. NAVD88 (N. rim monument)
Driller: James Goble — Date Completed: 2/13/2015
Drill Type: CME 55 — Weather: Clear 50F
Size/Type Casing: 10" HSA — Sampler: 3" dia. SPT

Spl. No.	Type Sample Saved	PID (ppm)	Odor/ Sheen	Spl Depth (Ft.) From - To	Spl length (inches)	Blows/ 6 inches	Time	Sample Description
				0-20		-	0815	No Sampling from 0-20'. Lean concrete in cuttings
		0.3	NO/NS	20-21.5	18	3/4/5		Loose, sat, blk, silty, F SAND
		4.8	NO/NS	21.5-23	18	4/6/8		M dense, sat, blk, silty, F SAND 0.5' SILT interbed
		0.3	NO/NS	23-24.5	18	8/8/8		M dense, sat, blk, silty, F SAND
MWC	Composite 24.5-26'	0.2	NO/NS	24.5-26	18	9/7/7	0900	M dense, sat, blk, silty, F SAND, w/organics, silt clasts
		0.1	NO/NS	26-27.5	18	6/4/4		M dense, sat, blk, silty, F SAND
		0.3	NO/NS	27.5-29	18	5/6/7		Stiff, wet, blk, F sandy, SILT
		0.4	NO/NS	29-30.5	18	5/7/7		Stiff, wet, blk, F sandy, SILT

Bottom of boring @ 32.0'

Depth(ft.)

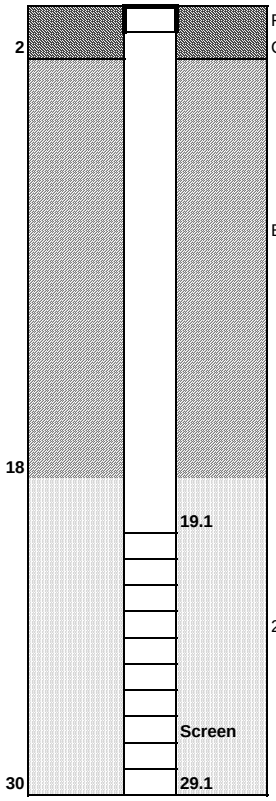
SUMMARY LOG



(Bottom of Boring)

NOTE: The summary log is an interpretation based on samples, drill action, and interpolation. Variations between what is shown and actual conditions should be anticipated.

MONITORING WELL DIAGRAM



MONITORING WELL INFORMATION

TOC Elevation: 17.48 ft. NAVD88
Riser: 2" dia.SCH 40 PVC
Length: 19.1'
Screen: 2" dia. SCH 40 PVC
Slot size: 0.010"
Length: 10'
(top/bot) 19.1/29.1
0.3' end cap
Sandpack: 2/12 colorado sand
Seal: Bentonite chip
(top/bot) 2/18
Monument: 10" dia. Flush Mount (Morris)
-0.3' to top of PVC/TOC

Abbreviations:
gry = gray; bwn = brown; blk = black; mot = mottled
Sheen - NS= none, LS = Light, MS = Moderate, HS = Heavy
Odor - NO= None, SLO = Slight, MO = Moderate, STO = Strong
F = fine; M = medium, sat = pores saturated with water

APPENDIX E
GRAIN SIZE ANALYSES AND HYDRAULIC CONDUCTIVITY DATA

REMEDIAL INVESTION REPORT
ICS/NWC RI/FS
SEATTLE, WASHINGTON

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

December 22, 2015

Matt Dalton
Dalton, Olmsted, & Fuglevand
6034 North Star Road
Ferndale, WA 98248

RE: ICS/Former NW Cooperage, SUM-008
ARI Job No.: ARP2

Dear Mr. Dalton:

Please find enclosed the Chain-of-Custody records (COCs), sample receipt documentation, and the final analytical results for samples from the project referenced above. Nine soil samples were removed from frozen archive on November 27, 2015 and logged under ARI job ARP2. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Forms.

The samples were subcontracted to Materials Testing and Consulting (MTC) for Grain Size analysis. All subcontracted data have been included in this report.

Analytical details regarding requested analyses are discussed in the enclosed MTC Case Narrative.

An electronic copy of this report and all associated raw data will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile ARP2

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Subject: RE: ICS/NWC RI - Grain Size Analyses
From: "Matt Dalton" <mdalton@dofnw.com>
Date: 11/20/2015 12:06 PM
To: "'Cheronne Oreiro'" <cheronneo@arilabs.com>

Lets go with ASTM.

M

From: Cheronne Oreiro [mailto:cheronneo@arilabs.com]
Sent: Thursday, November 19, 2015 10:08 AM
To: Matt Dalton <mdalton@dofnw.com>
Cc: 'Cooper Dave' <dcooper@dofnw.com>
Subject: Re: ICS/NWC RI - Grain Size Analyses

Okay, I'll have them pulled from the freezer ASAP.
Would you like them analyzed by the ASTM method or PSEP?
-Cheronne

ARI will be closed Nov 26th (Thanksgiving).
I will be out of the office Nov 27th thru Nov 30th.

On 11/18/2015 6:48 AM, Matt Dalton wrote:

> Cheronne:
>
> Appreciate your comment – but would like to have these samples run anyway.
>
> Matt
>
> **From:** Cheronne Oreiro [mailto:cheronneo@arilabs.com]
> **Sent:** Tuesday, November 17, 2015 3:20 PM
> **To:** Matt Dalton <mdalton@dofnw.com>
> **Cc:** 'Cooper Dave' <dcooper@dofnw.com>
> **Subject:** Re: ICS/NWC RI - Grain Size Analyses
>
> Hi Matt,
>
> I do have these samples in *frozen* archive. Per the grain size method, archive samples should not be frozen because freezing could break down particles and skew results.
> -Cheronne
>
> ARI will be closed Nov 26th (Thanksgiving).
> I will be out of the office Nov 27th thru Nov 30th.
>
> Cheronne Oreiro
> Project Manager
> Analytical Resources, Inc.
> 4611 S. 134th Place, Suite 100

Tukwila, WA 98168-3240
cheronneo@arilabs.com
(206)-695-6214

How was your customer experience?
Please take our 5 minute online customer survey.

On 11/17/2015 2:22 PM, Matt Dalton wrote:

> Cheronne:
>
> I am looking for archived soil samples to run grain size analyses. My first cut samples are listed on the attached table.
>
> I would appreciate if you would check on the status of these archive samples and let me know if they would work.
>
> Thanks
>
> Matt
>
> Matt Dalton
> ***Dalton, Olmsted & Fuglevand, Inc.***
> 6034 N. Star Rd.
> Ferndale, WA 98248
> Office: 360-380-0862
> Cell: 206-498-6616

TABLE X - Tentative Samples for Grain Size Analysis

ICS/NWC RI
Seattle, WA

Sample	Depth (ft)	Type	ARI Del. Group	Previously Analyzed
P28-SO-13	12.5-13.5	Fine Sand	ZP37	No
P28-SO-22	21-23	Fine to medium Sand		Yes (PCB)
P28-SO-42	41-43	Fine Sand		No
P31-SO-13	**12-14**	**Fine Sand**	**ZO01**	**No**
P31-SO-22	**21-23**	**Fine to medium Sand**		**No**
P31-SO-42	**41-43**	**Fine Sand**		**No**
P32-SO-13	12-14	Find Sand	ZP37	No
P32-SO-22	21-22	Fine to medium Sand		No
P32-SO-42	41-43	Find Sand		No

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2837	Turn-around Requested: Normal	Date: 12/16/14	
ARI Client Company: Dalton Olmsted & Fuglevand	Phone: 206-660-3466	Page: 1 of 2	
Client Contact: Matt Dalton / Dave Cooper		No. of Coolers: 5	Cooler Temps: 0.4-5.4
Client Project Name: ICS / Former NW Cooperage			
Client Project #: SUM-008	Samplers: DG Cooper		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	Analysis Requested: Metals - Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg	VOCs / TPH-G	SVOCs - Full list incl PAHs	PCBs	TPH-DX	Pesticides		ARCHIVE	Notes/Comments
ICS-P28-SO-4-121514	12/15/2014	1230	SOIL	7	X	X	X	X	X	X			
ICS-P28-SO-7-121514	12/15/2014	1240	SOIL	7								X	
ICS-P28-SO-10-121514	12/15/2014	1250	SOIL	7	X	X	X	X	X	X			
ICS-P28-SO-13-121514	12/15/2014	1300	SOIL	7								X	
ICS-P28-SO-16-121514	12/15/2014	1310	SOIL	7	X	X	X	X	X	X			
ICS-P28-SO-22-121514	12/15/2014	1320	SOIL	7								X	
ICS-P28-SO-32-121514	12/15/2014	1430	SOIL	7	X	X	X	X	X	X			
ICS-P28-SO-42-121514	12/15/2014	1500	SOIL	7								X	
ICS-P28-SO-50-121514	12/15/2014	1530	SOIL	7								X	
ICS-P32-SO-13-121514	12/15/2014	0800	SOIL	7								X	

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
	Printed Name: DG Cooper	Printed Name: Jennifer Hillegas	Printed Name	Printed Name
	Company: DOF	Company: ARI	Company	Company
	Date & Time: 12/16/14 @ 0720	Date & Time: 12/16/14 720	Date & Time	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client*

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2037	Turn-around Requested: Normal	Date: 12/16/14	
ARI Client Company: Dalton Olmsted & Fuglevand	Phone: 206-660-3466	Page: 2 of 2	
Client Contact: Matt Dalton / Dave Cooper		No. of Coolers: 5	Cooler Temps: 0.4-5.4
Client Project Name: ICS / Former NW Cooperage			
Client Project #: SUM-008	Samplers: DG Cooper		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	Metals - Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg	VOCs / TPH-G	SVOCs - Full list incl. PAHs	PCBs	TPH-DX	Pesticides		ARCHIVE	Notes/Comments
					Analysis Requested								
ICS-P32-SO-16-121514	12/15/2014	0810	SOIL	7	X	X	X	X	X	X			
ICS-P32-SO-22-121514	12/15/2014	0820	SOIL	7								X	
ICS-P32-SO-32-121514	12/15/2014	0940	SOIL	7	X	X	X	X	X	X			
ICS-P32-SO-42-121514	12/15/2014	1050	SOIL	7								X	
ICS-P32-SO-50-121514	12/15/2014	1100	SOIL	7								X	
ICS-SO-DUPL3-121514	12/15/2014	0815	SOIL	7	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
	Printed Name: DG Cooper	Printed Name: Jennifer Mills	Printed Name	Printed Name
	Company: DOF	Company: ARI	Company	Company
	Date & Time: 12/16/14 0720	Date & Time: 12/16/14 720	Date & Time	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: DOF

Project Name: CS/Former NW Cooperage

COC No(s): ________ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other. ________

Assigned ARI Job No: ZP37

Tracking No: ________ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 2.3 4.3 5.4 0.4 5.4
Time: ________

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 12/16/14 Time: 720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: ________

	NA	YES	NO
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	________	

Was Sample Split by ARI: (NA) YES Date/Time: ________ Equipment: ________ Split by: ________

Samples Logged by: JM Date: 12/16/14 Time: 1330

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small Air Bubbles ~2mm	Peabubbles' 2-4 mm	LARGE Air Bubbles > 4 mm

Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

ARI Assigned Number: ZD01	Turn-around Requested: Normal	Date: 12/9/14	
ARI Client Company: Dalton Olmsted & Fuglevand	Phone: 206-660-3466	Page: 1 of 2	
Client Contact: Matt Dalton / Dave Cooper		No. of Coolers: 4	Cooler Temps: 3.1-5.9
Client Project Name: ICS / Former NW Cooperage			
Client Project #: SUM-008	Samplers: DG Cooper		

Sample ID	Date	Time	Matrix	No Containers	Metals - Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg	VOCs / TPH-G	SVOCs - Full list incl. PAHs	PCBs	TPH-DX	Pesticides	Dioxin	ARCHIVE	Notes/Comments
ICS-P30-SO-4-120914	12/9/2014	1150	SOIL	7	X	X	X	X	X	X			
ICS-P30-SO-7-120914	12/9/2014	1200	SOIL	7								X	
ICS-P30-SO-10-120914	12/9/2014	1210	SOIL	7	X	X	X	X	X	X			
ICS-P30-SO-13-120914	12/9/2014	1220	SOIL	7								X	
ICS-P30-SO-16-120914	12/9/2014	1230	SOIL	7	X	X	X	X	X	X			
ICS-P30-SO-22-120914	12/9/2014	1240	SOIL	7								X	
ICS-P30-SO-32-120914	12/9/2014	1430	SOIL	7	X	X	X	X	X	X			
ICS-P30-SO-42-120914	12/9/2014	1445	SOIL	7								X	
ICS-P30-SO-50-120914	12/9/2014	1500	SOIL	7								X	
ICS-P31-SO-4-120914	12/9/2014	0800	SOIL	7	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by	Received by
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DG Cooper	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: DOF	Company: ARI	Company:	Company:
	Date & Time: 12/10/14 0725	Date & Time: 12/10/14 725	Date & Time	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

ARI Assigned Number: Z001	Turn-around Requested: Normal	Date: 12/10/14	
ARI Client Company: Dalton Olmsted & Fuglevand	Phone: 206-660-3466	Page: 2 of 2	
Client Contact: Matt Dalton / Dave Cooper		No. of Coolers: 4	Cooler Temps: 3.1-5.9
Client Project Name: ICS / Former NW Cooperage			
Client Project #: SUM-008	Samplers: DG Cooper		

Sample ID	Date	Time	Matrix	No Containers	Metals - Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg	VOCs / TPH-G	SVOCs - Full list incl. PAHs	PCBs	TPH-DX	Pesticides		ARCHIVE	Notes/Comments
ICS-P31-SO-7-120914	12/9/2014	0810	SOIL	7								X	
ICS-P31-SO-10-120914	12/9/2014	0820	SOIL	7	X	X	X	X	X	X			
ICS-P31-SO-13-120914	12/9/2014	0830	SOIL	7								X	
ICS-P31-SO-16-120914	12/9/2014	0840	SOIL	7	X	X	X	X	X	X			
ICS-P31-SO-22-120914	12/9/2014	0850	SOIL	7								X	
ICS-P31-SO-32-120914	12/9/2014	1020	SOIL	7	X	X	X	X	X	X			
ICS-P31-SO-42-120914	12/9/2014	1030	SOIL	7								X	
ICS-P31-SO-50-120914	12/9/2014	1050	SOIL	7								X	
Trip Blanks	12/9/2014	-	SOIL	2									

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
	[signature]	[signature]		
	Printed Name: DG Cooper	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: DOF	Company: ARI	Company:	Company:
	Date & Time: 12/10/14 0725	Date & Time: 12/10/14 725	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

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Subject: ICS-NWC - REV COC
From: "Matt Dalton" <mdalton@dofnw.com>
Date: 12/10/2014 7:27 AM
To: "Cheronne Oreiro" <cheronneo@arilabs.com>

Cheronne:

See attached revised COC. I think Dave will be getting you these samples this morning.

Matt

Attachments:

2014_12_10_07_23_51.pdf 556 KB

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 7DØ1	Turn-around Requested: Normal
ARI Client Company: Dalton Olmsted & Fuglevand	Phone: 206-660-3466
Client Contact: Matt Dalton / Dave Cooper	
Client Project Name: ICS / Former NW Cooperage	
Client Project #: SUM-008	Samplers: DG Cooper

Date:	12/9/14
Page: 1	of 2
No. of Coolers:	Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Metals - Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg	VOCs / TPH-G	SVOCs - Full list incl. PAHs	PCBs	TPH-DX	Pesticides	Dioxin	ARCHIVE	Notes/Comments
ICS-P30-SO-4-120914	12/9/2014	1150	SOIL	7	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			Archive [illegible]
ICS-P30-SO-7-120914	12/9/2014	1200	SOIL	7	X	X	X	X	X	X		~~X~~	
ICS-P30-SO-10-120914	12/9/2014	1210	SOIL	7	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			Archive [illegible]
ICS-P30-SO-13-120914	12/9/2014	1220	SOIL	7	X	X	X	X	X	X		~~X~~	
✓ICS-P30-SO-16-120914	12/9/2014	1230	SOIL	7	X	X	X	X	X	X			
✓ICS-P30-SO-22-120914	12/9/2014	1240	SOIL	7								X	
✓ICS-P30-SO-32-120914	12/9/2014	1430	SOIL	7	X	X	X	X	X	X			
✓ICS-P30-SO-42-120914	12/9/2014	1445	SOIL	7								X	
✓ICS-P30-SO-50-120914	12/9/2014	1500	SOIL	7								X	
ICS-P31-SO-4-120914	12/9/2014	0800	SOIL	7	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: DG Cooper	Printed Name:	Printed Name:	Printed Name:
	Company: DOF	Company:	Company:	Company:
	Date & Time:	Date & Time:	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 7001	Turn-around Requested: Normal	Date: 12/10/14	
ARI Client Company: Dalton Olmsted & Fuglevand	Phone: 206-660-3466	Page: 2 of 2	
Client Contact: Matt Dalton / Dave Cooper		No. of Coolers:	Cooler Temps:
Client Project Name: ICS / Former NW Cooperage			
Client Project #: SUM-008	Samplers: DG Cooper		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Metals - Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Ag, Zn, Hg	VOCs / TPH-G	SVOCs - Full list incl. PAHs	PCBs	TPH-DX	Pesticides		ARCHIVE	Notes/Comments
ICS-P31-SO-7-120914	12/9/2014	0810	SOIL	7								X	
ICS-P31-SO-10-120914	12/9/2014	0820	SOIL	7	X	X	X	X	X	X			
ICS-P31-SO-13-120914	12/9/2014	0830	SOIL	7								X	
ICS-P31-SO-16-120914	12/9/2014	0840	SOIL	7	X	X	X	X	X	X			
ICS-P31-SO-22-120914	12/9/2014	0850	SOIL	7								X	
ICS-P31-SO-32-120914	12/9/2014	1020	SOIL	7	X	X	X	X	X	X			
ICS-P31-SO-42-120914	12/9/2014	1030	SOIL	7								X	
ICS-P31-SO-50-120914	12/9/2014	1050	SOIL	7								X	
Trip Blanks	12/9/2014	-	SOIL	2									

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: DG Cooper	Printed Name:	Printed Name:	Printed Name:
	Company: DOF	Company:	Company:	Company:
	Date & Time:	Date & Time:	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: DOF

Project Name: ICS/Former NW Cooperage

COC No(s): (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: 70081

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler? ...	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.7 3.1 5.3 5.9		
Time: _____		

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 12/10/14 Time: 725

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ...	Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 12/10/14 Time: 1102

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

Trip blank was 1 MEOH vial + 1 SOBI vial.
Not a TB per PM. Do not analyze per PM.

By: JM Date: 12/10/14

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm
○ ○	● ● ●	● ● ●

Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: ARP2
Client: Dalton, Olmsted & Fuglevand, Inc
Project Event: ICS/Former NW Cooperage
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	ICS-P28-SO-13-121514	ARP2A	15-23070	Soil	12/15/14 13:00	12/16/14 07:20
2.	ICS-P28-SO-22-121514	ARP2B	15-23071	Soil	12/15/14 13:20	12/16/14 07:20
3.	ICS-P28-SO-42-121514	ARP2C	15-23072	Soil	12/15/14 15:00	12/16/14 07:20
4.	ICS-P32-SO-13-121514	ARP2D	15-23073	Soil	12/15/14 08:00	12/16/14 07:20
5.	ICS-P32-SO-22-121514	ARP2E	15-23074	Soil	12/15/14 08:20	12/16/14 07:20
6.	ICS-P32-SO-42-121514	ARP2F	15-23075	Soil	12/15/14 10:50	12/16/14 07:20
7.	ICS-P31-SO-13-120914	ARP2G	15-23076	Soil	12/09/14 08:30	12/16/14 07:20
8.	ICS-P31-SO-22-120914	ARP2H	15-23077	Soil	12/09/14 08:50	12/16/14 07:20
9.	ICS-P31-SO-42-120914	ARP2I	15-23078	Soil	12/09/14 10:30	12/16/14 07:20

Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting

Project:	ICS/Former NW Cooperage	**Date Received:**	December 2, 2015
Project #:	ARP2	**Sampled By:**	Others
Client :	Analytical Resources, Inc	**Date Tested:**	December 22, 2015
Source:	Multiple	**Tested By:**	A. Urban, A. Kinkade
MTC Sample#:	T15-2891-T15-2899		

CASE NARRATIVE

1. Nine samples were submitted for grain size distribution according to ASTM D422. The samples were prepared according to ASTM D421.
2. One sample from this job was chosen for triplicate analyis.
3. An assumed specific gravity of 2.65 was used in the hydrometer calculations.
4. A standard milkshake mixer type device was used to disperse the fine fraction sample for one minute.
5. The data is provided in summary tables and plots.
6. There were no noted anomalies in this project.

Reviewed by: _____

Corporate ~ 777 Chrysler Drive • Burlington, WA 98233 • Phone (360) 755-1990 • Fax (360) 755-1980
Regional Offices: Olympia ~ 360 534 9777 Bellingham ~ 360.647.6111 Silverdale ~ 360 698 6787 Tukwila ~ 206 241 1974
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Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting

Project: ICS/Former NW Cooperage
Project #: ARP2
Date Received: December 2, 2015
Date Tested: December 22, 2015

Client: Analytical Resources, Inc
Sampled by: Others
Tested by: A Urban, A Kinkade

Percent Finer (Passing) Than the Indicated Size

Sieve Size (microns)	3"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1 3
ICS-P32-SO-13-121514	100 0	100.0	100 0	100 0	100.0	100.0	100 0	100 0	100 0	99 9	99.7	99 1	94.1	66 4	30.1	22.2	15 7	14 4	10 5	6 5	3 9
	100 0	100.0	100 0	100 0	100 0	100 0	99 0	99 0	99 0	98.9	98.6	98 0	93.0	65 2	29 4	21 4	16 0	14 7	9.3	6.7	4 0
	100 0	100.0	100 0	100.0	100 0	100 0	100 0	100 0	100 0	100 0	99.8	99 2	94 6	67.0	32 9	22 4	15 8	14 5	9 2	5 3	3 9
ICS-P28-SO-13-121514	100 0	100.0	100 0	100 0	100 0	100.0	100.0	100 0	100 0	99 5	85 7	66 2	44 4	14 0	4 6	3 7	2.8	2 8	1.8	0 9	0 9
ICS-P28-SO-22-121514	100.0	100.0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	99 5	79.4	30.0	10 5	5 1	2 7	2 7	1.8	1 8	0.9	0 9	0.9
ICS-P28-SO-42-121514	100 0	100 0	100 0	100 0	100.0	100.0	100 0	100 0	99 8	99 5	91 9	59 6	28 1	10 0	4.9	3.9	2.9	2 9	1.9	1 0	1 0
ICS-P32-SO-22-121514	100 0	100.0	100 0	100.0	100 0	100 0	100 0	100 0	100 0	98.2	71.6	28 7	10.9	4.8	2 6	1 8	1 8	0 9	0 9	0.9	0 9
ICS-P32-SO-42-121514	100 0	100.0	100.0	100.0	100 0	100 0	100 0	100 0	100 0	99 9	99.8	97 9	81 6	44.1	14.4	9 1	7 8	5 2	5 2	2 6	2 6
ICS-P31-SO-13-120914	100 0	100.0	100 0	100 0	100 0	100 0	100 0	100.0	100 0	99 9	99.7	98 8	90.5	50 0	20.3	13 1	8 7	8.7	5.8	2 9	2 9
ICS-P31-SO-22-120914	100.0	100.0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	98 7	84.4	70.7	38.8	9 2	3 2	3 2	2 1	2 1	1 1	0 0	0.0
ICS-P31-SO-42-120914	100 0	100.0	100 0	100.0	100.0	99.9	99 9	99 8	99 7	99 4	96.9	74 8	43.4	19 4	8.5	8.5	6 1	4 8	4 8	2 4	2 4

Testing performed according to ASTM D421/D422
Organics were not removed prior to analysis The grain size distribution reported is the "apparent grain size distribution".

Reviewed by: [signature]

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Regional Offices: Olympia - 360 534 9777 Bellingham ~ 360 647 6111 Silverdale ~ 360 698 6787 Tukwila ~ 206 241 1974
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Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting

Project: ICS/Former NW Cooperage
Project #: ARP2
Date Received: December 2, 2015
Date Tested: December 22, 2015

Client Analytical Resources, Inc
Sampled by. Others
Tested by A Urban, A Kinkade

Percent Retained in Each Size Fraction

Description	% Coarse Gravel				% Gravel			% Coarse Sand	% Medium Sand		% Fine Sand			% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Fine Silt	% Very Fine Silt	% Clay	
Particle Size (microns)	3-2"	2-1 1/2"	1 1/2"-1"	1-3/4"	3/4-1/2"	1/2-3/8"	3/8"-4750	4750-2000	2000-850	850-425	425-250	250-150	150-75	75-32	32-22	22-13	13-9	9-7	7-3.2	3.2-1.3	<1.3
ICS-P32-SO-13-121514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	5.0	27.8	36.3	7.8	6.5	1.3	3.9	3.9	2.6	3.9
ICS-P32-SO-13-121514	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.1	0.2	0.7	5.0	27.8	35.8	8.0	5.3	1.3	5.3	2.7	2.7	4.0
ICS-P32-SO-13-121514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	4.7	27.5	34.2	10.5	6.6	1.3	5.3	3.9	1.3	3.9
ICS-P28-SO-13-121514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	13.8	19.5	21.8	30.4	9.4	0.9	0.9	0.0	0.9	0.9	0.0	0.9
ICS-P28-SO-22-121514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	20.1	49.4	19.5	5.4	2.4	0.0	0.9	0.0	0.9	0.0	0.0	0.9
ICS-P28-SO-42-121514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	7.6	32.3	31.5	18.1	5.1	1.0	1.0	0.0	1.0	1.0	0.0	1.0
ICS-P32-SO-22-121514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	26.7	42.9	17.8	6.1	2.2	0.9	0.0	0.9	0.0	0.0	0.0	0.9
ICS-P32-SO-42-121514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.9	16.3	37.5	29.7	5.2	1.3	2.6	0.0	2.6	0.0	2.6
ICS-P31-SO-13-120914	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	8.3	40.5	29.7	7.3	4.4	0.0	2.9	2.9	0.0	2.9
ICS-P31-SO-22-120914	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	14.3	13.7	31.9	29.6	6.0	0.0	1.1	0.0	1.1	1.1	0.0	0.0
ICS-P31-SO-42-120914	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.3	2.5	22.1	31.4	24.0	10.9	0.0	2.4	1.2	0.0	2.4	0.0	2.4

Testing performed according to ASTM D421/D422
Organics were not removed prior to analysis The grain size distribution reported is the "apparent grain size distribution"

Reviewed by:

Corporate ~ 777 Chrysler Drive • Burlington, WA 98233 • Phone (360) 755-1990 • Fax (360) 755-1980
Regional Offices: Olympia ~ 360 534 9777 Bellingham ~ 360 647 6111 Silverdale ~ 360 698 6787 Tukwila ~ 206 241 1974
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Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting

Project: ICS/Former NW Cooperage
Project # ARP2
Date Received. December 2, 2015
Date Tested: December 22, 2015

Client Analytical Resources, Inc
Sampled by Others
Tested by A Urban, A Kinkade

Relative Standard Deviation, By Size

Sample ID	75000	50000	37500	25000	19000	12500	9500	4750	2000	850	425	250	150	75	32	22	13	9	7	3.2	1.3
ICS-P32-SO-13-121514	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.7	99.1	94.1	66.4	30.1	22.2	15.7	14.4	10.5	6.5	3.9
	100.0	100.0	100.0	100.0	100.0	100.0	99.0	99.0	99.0	98.9	98.6	98.0	93.0	65.2	29.4	21.4	16.0	14.7	9.3	6.7	4.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.2	94.6	67.0	32.9	22.4	15.8	14.5	9.2	5.3	3.9
AVE	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.7	99.7	99.6	99.4	98.8	93.9	66.2	30.8	22.0	15.8	14.5	9.7	6.2	4.0
STDEV	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.8	1.5	0.4	0.1	0.1	0.5	0.6	0.0
%RSD	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.6	0.7	1.1	4.9	2.0	0.9	0.9	5.8	10.3	0.9

This Triplicate applies to the Batch Containing the Following Samples

Sample ID	Date Sampled	Date Set up	Date Started	Date Complete	Data Qualifiers
ICS-P32-SO-13-121514	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P28-SO-13-121514	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P28-SO-22-121514	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P28-SO-42-121514	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P32-SO-22-121514	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P32-SO-42-121514	12/15/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P31-SO-13-120914	12/9/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P31-SO-22-120914	12/9/2015	12/3/2015	12/10/2015	12/22/2015	
ICS-P31-SO-42-120914	12/9/2015	12/3/2015	12/10/2015	12/22/2015	

Testing performed according to ASTM D421/D422
Organics were not removed prior to analysis The grain size distribution reported is the "apparent grain size distribution"

Reviewed by

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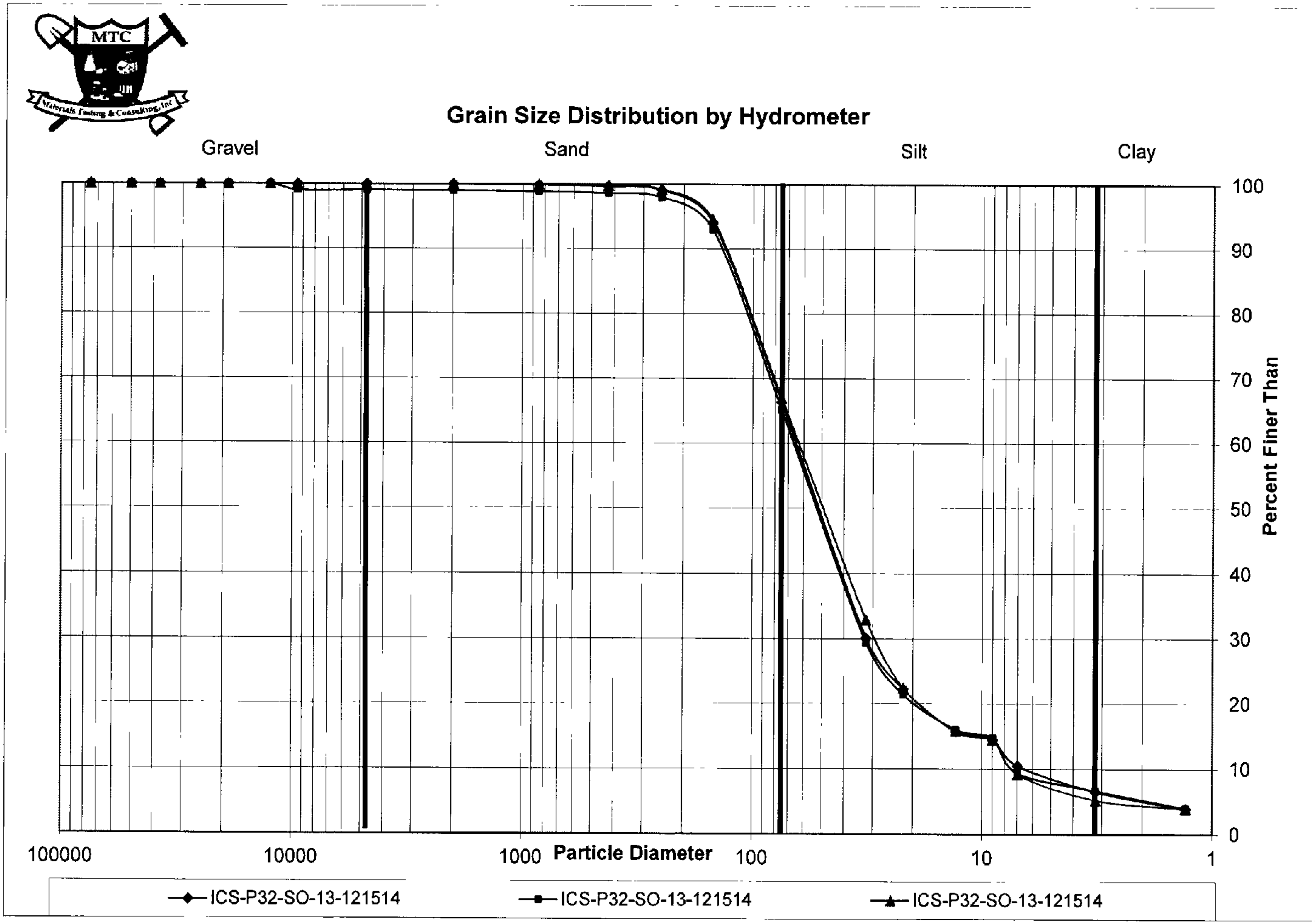
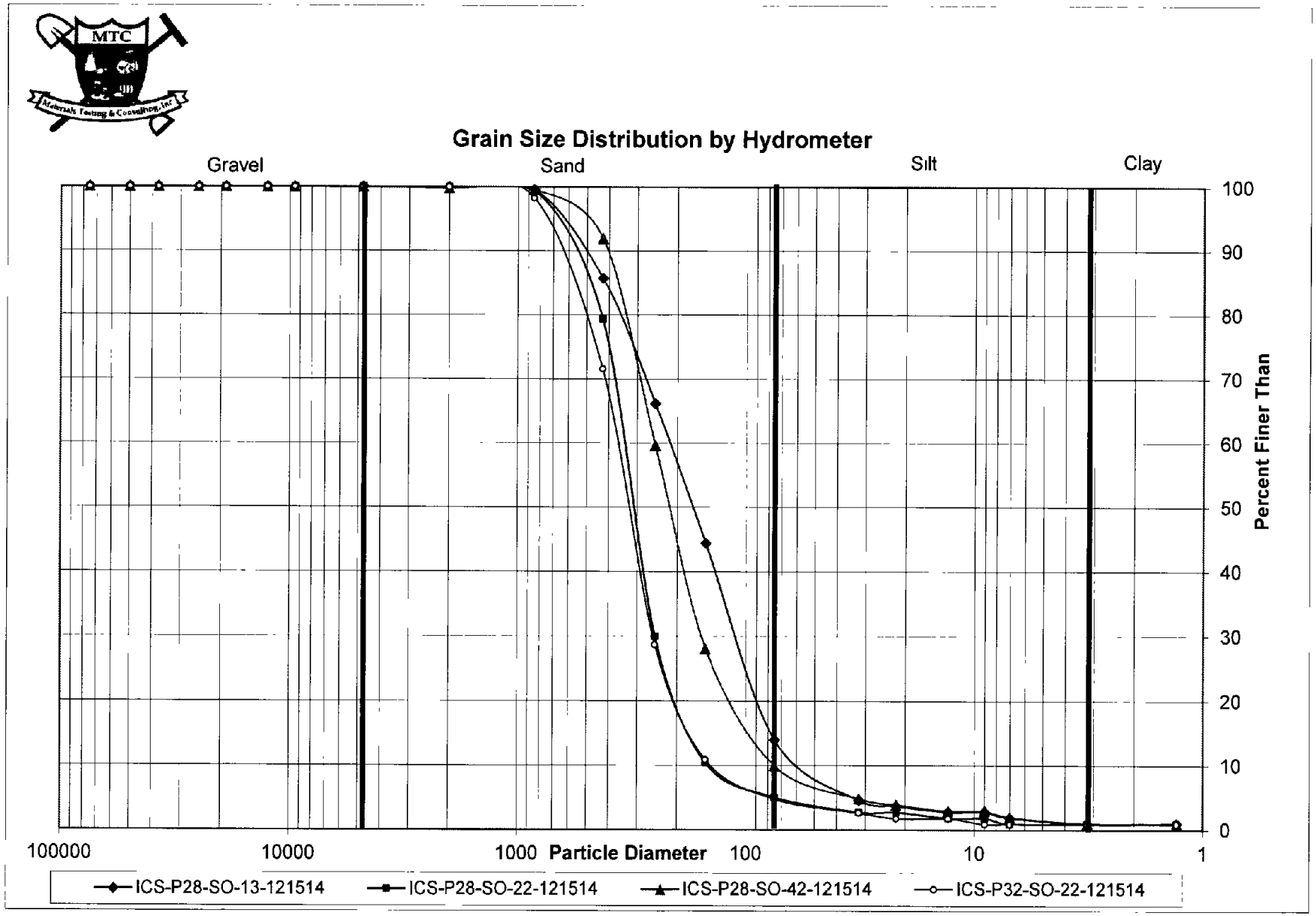
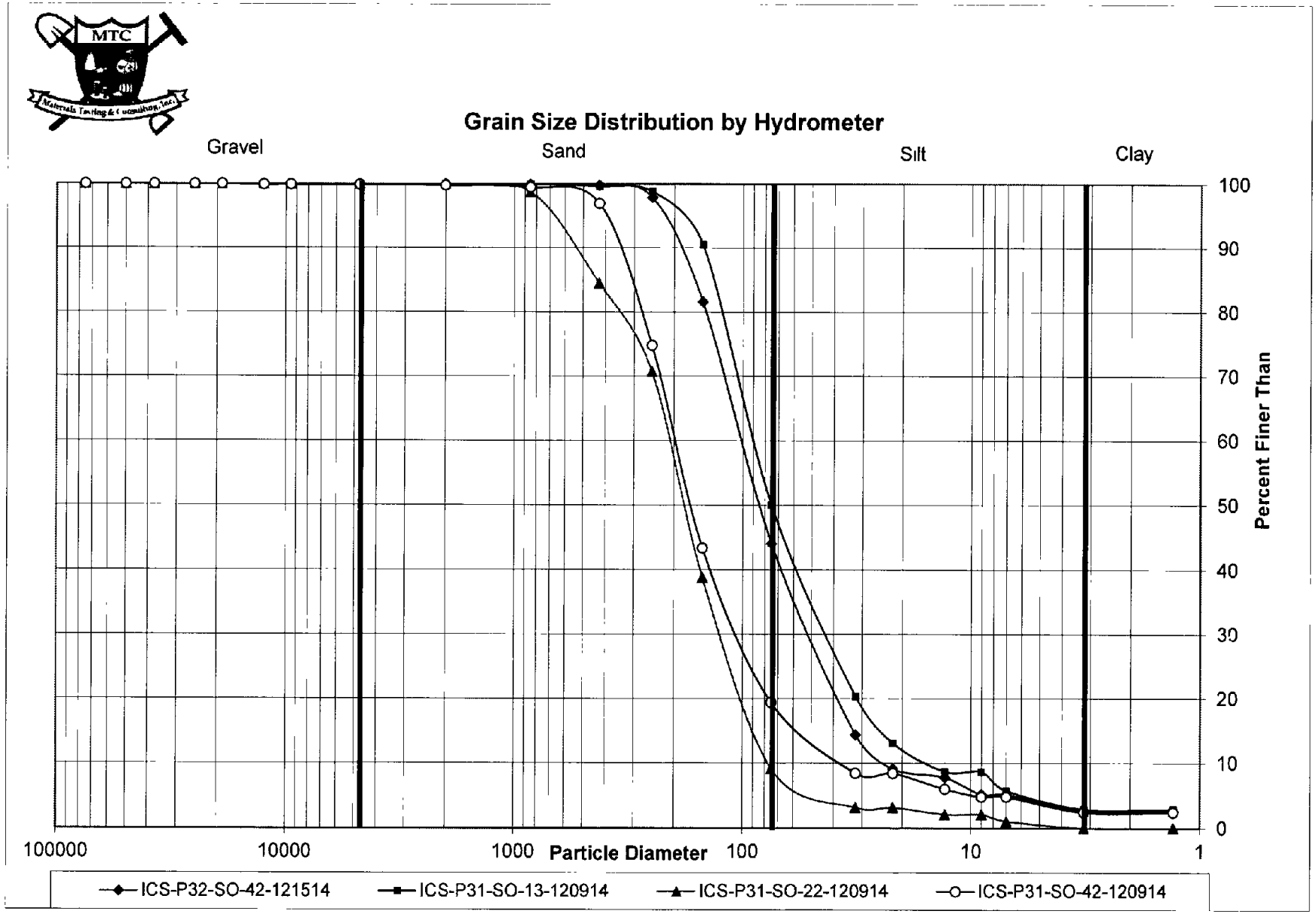

MTC
Materials Testing & Consulting, Inc
Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
Particle Diameter
100
10
1
ICS-P32-SO-13-121514
ICS-P32-SO-13-121514
ICS-P32-SO-13-121514


Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
Particle Diameter
100
10
1
ICS-P28-SO-13-121514
ICS-P28-SO-22-121514
ICS-P28-SO-42-121514
ICS-P32-SO-22-121514


Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
Particle Diameter
100
10
1
ICS-P32-SO-42-121514
ICS-P31-SO-13-120914
ICS-P31-SO-22-120914
ICS-P31-SO-42-120914

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15001-152 MTC Sample ID: 15-2844 Setup Date: 12/3/15 Technician: AM
Sample Description: Brown ~~Silty~~ Sand @ Sandy Silt
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2894-1
Tare Weight (g)	9.58
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	152.24
Hydro Test Sample Weight (g) (not including beaker weight)	77.57
Tare + Oven-Dried #10 Washed (g)	9.57
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	46.58

Hygroscopic Moisture Content	
Tare Number	2894-1
Tare Weight (g)	1.54
Wet Soil + Tare (g)	57.56
Dry Soil + Tare (g)	56.65

Hydro Beaker: CL Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: AM
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 276054 Technician: AM

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
6 45:00	**START**			
6:46 00	**1**	39	6	19°
6 47 00	**2**	29	6	19°
6 50:00	**5**	23	6	19°
7:00:00	**15**	18	6	19°
7:15:00	**30**	17	6	19.5°
7:45.00	**60**	14	6	19.5°
10:55 00	**250**	11	6	20.0°
6 45:00	**1440**	9	6	~~19.5~~
6 45 00				

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 3 Technician: AM

Sieve Size	Cumulative Weight (g)
Empty Tare	9.59
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
#4	
#10	9.59
~~#16~~	~~9.66~~
#20	@ ~~9.67~~ 9.106
#40	@ ~~10.28~~ 9.91
~~#50~~	
#60	10.28
#100	14.10
#200	35.36
Pan	40.81

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Rev. 003
7/29/13

*Jar Broke 12/3/15 @ sample was consumed 12/3/15

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15D0452 MTC Sample ID: D2894-2 Setup Date: 12/3/15 Technician: AM
Sample Description: Brown sandy silt
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2894-2
Tare Weight (g)	10.54
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	172.40
Hydro Test Sample Weight (g) (not including beaker weight)	75.39
Tare + Oven-Dried #10 Washed (g)	112.16 @
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	42.52

Hygroscopic Moisture Content	
Tare Number	2894-2
Tare Weight (g)	1.52
Wet Soil + Tare (g)	61.57
Dry Soil + Tare (g)	60.67

Hydro Beaker: BE Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: AM
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 276054 Technician: AM

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
6:52:00	START			
6:53.00	1	37	6	19°
6 54 00	2	28	6	19°
6 57.00	5	22	6	19°
7:07:00	15	18	6	19°
7:22 00	30	17	6	19.5°
7 52 00	60	13	6	19.5°
11 02:00	250	11	6	20°
6 52.00	1440	9	6	19.5
6 52:00				

Sieve Analysis

Sieve Date: 12/4/15 Sieve Set #: 4 Technician: AM

Sieve Size	Cumulative Weight (g)
Empty Tare	10.54
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	12.10
#4	12.10
#10	12.15
~~#16~~	@
#20	12.24
#40	12.42
#50	@
#60	12.91
#100	16.69
#200	37.49
Pan	42.92

@ Jar Broke 12/3/15 @ Sample was contaminated

Materials Testing and Consulting Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15TOH52 MTC Sample ID: TS-28943 Setup Date: 12/3/15 Technician: au
Sample Description: Brown Sandy silt
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [ ] Whole Sample [ ]

Tare Number	2894-3
Tare Weight (g)	10.80
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	161.56
Hydro Test Sample Weight (g) (not including beaker weight)	77.22
Tare + Oven-Dried #10 Washed (g)	10.82
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	39.27

Hygroscopic Moisture Content	
Tare Number	2894-3
Tare Weight (g)	1.54
Wet Soil + Tare (g)	54.28
Dry Soil + Tare (g)	53.52

Hydro Beaker: F Calgon Batch #: 219 Calgon Date: 12/4/15 Technician: au
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 276054 Technician: AW

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
6:59:00	START			
7:00:00	1	30	6	19°
7:01:00	2	31	6	19°
7:04:00	5	23	6	19°
7:14:00	15	18	6	19.5°
7:29:00	30	17	6	19.5°
7:59:00	60	13	6	19.5
11:09:00	250	10 9 cm	6	20.0
6:59:00	1440	9	6	19.5
6:59:00				

Sieve Analysis

Sieve Date: 12/4/15 Sieve Set #: 3 Technician: au

Sieve Size	Cumulative Weight (g)	
Empty Tare	10.83	
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"		
#4		
#10	10.83	
~~#16~~		(2)
#20	10.86	
#40	10.99	
~~#50~~		(3)
~~#60~~	11.41	
#100	14.96	
#200	35.91	
Pan	39.39	

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Rev. 003
7/29/13

*Jar Broke 12/2/15 GW Sample [illegible] ARP2 : 00824

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15001-52 MTC Sample ID: TS2891 Setup Date: 12/3/15 Technician: AW
Sample Description: DARK BROWN SILTY SAND
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2891
Tare Weight (g)	1913
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	277.17
Hydro Test Sample Weight (g) (not including beaker weight)	109.14
Tare + Oven-Dried #10 Washed (g)	10.18
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	106.34

Hygroscopic Moisture Content	
Tare Number	2891
Tare Weight (g)	1.53
Wet Soil + Tare (g)	60.66
Dry Soil + Tare (g)	60.17

Hydro Beaker: 5 Calgon Batch #: 39 Calgon Date: 12/4/15 Technician: AW
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 276054 Technician: AW

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7 06 00	START			
7:07:00	1	13	6	19°
7.08 00	2	11	6	19°
7:11:00	5	10	6	19.5°
7.21:00	15	9	6	19.5°
7:36:00	30	9	6	19.5°
8:06 00	60	8	6	19.5°
11:16:00	250	7	6	20.0
7:06.00	1440	7	6	19.5
7.06 00				

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 4 Technician: AW

Sieve Size	Cumulative Weight (g)	
Empty Tare	10.10	
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"		
#4		
#10	10.17	
~~#16~~		@
#20	10.65	
#40	25.91	
~~#50~~		@
#60	46.75	
#100	70.36	
#200	103.22	
Pan	106.24	

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15D0152 MTC Sample ID: TS-2892 Setup Date: 12/3/15 Technician: AW
Sample Description: Dark brown Sand
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2892
Tare Weight (g)	10.57
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	280.24
Hydro Test Sample Weight (g) (not including beaker weight)	110.36
Tare + Oven-Dried #10 Washed (g)	10.53
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	115.27

Hygroscopic Moisture Content	
Tare Number	2892
Tare Weight (g)	1.53
Wet Soil + Tare (g)	68.06
Dry Soil + Tare (g)	67.69

Hydro Beaker: BC Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: AW
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

Hydrometer #: 276054 Technician: AW

12/10/2015 Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7:13:00	START			
7:14.00	1	11	6	19.5°
7 15 00	2	9	6	19.5°
7:18.00	5	9	6	19.5°
7 28 00	15	8	6	19.5°
7:43:00	30	8	6	19.5°
8:13 00	60	7	6	19.5°
11:23:00	250	7	6	20.0
7.13 00	1440	7	6	19.5
7:13 00				

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 3 Technician: AW

Sieve Size	Cumulative Weight (g)
Empty Tare	10.54
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
#4	
#10	
~~#16~~	
#20	11.08
#40	33.17
~~#50~~	
#60	87.38
#100	108.50
#200	114.109
Pan	114.91

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Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15T0114-2 MTC Sample ID: 15-2893 Setup Date: 12/3/15 Technician: AM
Sample Description: Dark brown sand
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2893
Tare Weight (g)	10.43
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	253.15
Hydro Test Sample Weight (g) (not including beaker weight)	103.83
Tare + Oven-Dried #10 Washed (g)	11.05
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	104.95

Hygroscopic Moisture Content	
Tare Number	2993
Tare Weight (g)	1.53
Wet Soil + Tare (g)	62.31
Dry Soil + Tare (g)	61.678

Hydro Beaker: C15 Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: AM
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015
Hydrometer # 276054 Technician: AM

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7:20:00	START			
7:21:00	1	12	6	19.5°
7:22.00	2	11	6	19.5°
7:25:00	5	10	6	19.5°
7:35.00	15	9	6	19.5°
7:50:00	30	9	6	19.5°
8:20:00	60	8	6	19.5°
11:30.00	250	7	6	20.0
7:20.00	1440	7	6	19.5
7:20:00				

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 4 Technician: AM

Sieve Size	Cumulative Weight (g)
Empty Tare	10.43
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
#4	10.50
#10	10.90
~~#16~~	
#20	11.218
#40	19.02
~~#50~~	
#60	52.32
#100	84.35
#200	103.51
Pan	104.95

ARP2 · 00627

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15DU152 MTC Sample ID: 15-2895 Setup Date: 12/3/15 Technician: AM
Sample Description: Dark brown Sand
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2895
Tare Weight (g)	10.09
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	203.72
Hydro Test Sample Weight (g) (not including beaker weight)	114.34
Tare + Oven-Dried #10 Washed (g)	10.14
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	119.05

Hygroscopic Moisture Content	
Tare Number	2895
Tare Weight (g)	1.54
Wet Soil + Tare (g)	75.93
Dry Soil + Tare (g)	75.69

Hydro Beaker: DL Calgon Batch #: 3/9 Calgon Date: 12/4/15 Technician: AM
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 27654 Technician: MM

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7.27.00	START			
7.28:00	1	10	6	19.5°
7:29 00	2	9	6	19.5°
7.32:00	5	8	6	19.5°
7:42.00	15	8	6	19.5°
7:57 00	30	7	6	19.5°
8:27:00	60	7	6	19.5°
11:37.00	250	7	6	20.0°
7:27 00	1440	7	6	19.5
7 27:00				

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 3 Technician: AM

Sieve Size	Cumulative Weight (g)
Empty Tare	10.09
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
#4	
#10	10.12
~~#16~~	
#20	12.12 (AM)
#40	42.52
~~#50~~	(AM)
#60	91.39
#100	111.64
#200	118.61
Pan	118.75

ARP2 00029

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15D0452 MTC Sample ID: TS-2896 Setup Date: 12/3/15 Technician: AW
Sample Description: brown Silty Sand
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2896
Tare Weight (g)	9.94
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	239.21
Hydro Test Sample Weight (g) (not including beaker weight)	77.152
Tare + Oven-Dried #10 Washed (g)	9.94
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	58.88

Hygroscopic Moisture Content	
Tare Number	2896
Tare Weight (g)	1.55
Wet Soil + Tare (g)	46.50
Dry Soil + Tare (g)	~~46.~~ @ 46.04

Hydro Beaker: DR Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: AW
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 276054 Technician: AW

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7 34.00	**START**			
7 35 00	**1**	23	6	19.5°
7:36 00	**2**	17	6	19.5°
7:39:00	**5**	13	6	19.5°
7 49.00	**15**	12	6	19.5°
8:04.00	**30**	10	6	19.5°
8 34:00	**60**	10	6	19.5
11:44:00	**250**	8	6	20.0
7 34:00	**1440**	8	6	19.5
7 34 00				

Sieve Analysis

Sieve Date: 12/4/15 Sieve Set #: 4 Technician: AW

Sieve Size	Cumulative Weight (g)
Empty Tare	9.27
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
#4	
#10	@~~9.8~~ 9.92
~~#16~~	
#20	9.99 @
#40	10.09
~~#50~~	@
#60	11.54
#100	24.04
#200	52.81
Pan	59.11

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15T001152 MTC Sample ID: TS-2897 Setup Date: 12/3/15 Technician: AM
Sample Description: Light brown silty sand
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2897
Tare Weight (g)	10.47
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	244.03
Hydro Test Sample Weight (g) (not including beaker weight)	73.17
Tare + Oven-Dried #10 Washed (g)	10.45
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	50.04

Hygroscopic Moisture Content	
Tare Number	2897
Tare Weight (g)	1.54
Wet Soil + Tare (g)	32.83
Dry Soil + Tare (g)	31.04

Hydro Beaker: BQ Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: AM
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 276054 Technician: AM

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7 41:00	START			
7:42.00	1	26	6	19.5°
7:43.00	2	20	6	19.5°
7:46:00	5	15	6	19.5°
7:56 00	15	12	6	19.5°
8:11 00	30	12	6	19.5°
8 41:00	60	10	6	19.5°
11:51 00	250	8	6	20.0°
7:41:00	1440	8	6	19.5
7:41:00				

P #200

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 3 Technician: AM

Sieve Size	Cumulative Weight (g)
Empty Tare	10.44
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
#4	
#10	
~~#16~~	
#20	10.45
#40	10.68
~~#50~~	
#60	11.26
#100	17.01
#200	44.92
Pan	50.41

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15100452 MTC Sample ID: TS-2898 Setup Date: 12/3/15 Technician: AM
Sample Description: Brown sand
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [X]

Tare Number	2898
Tare Weight (g)	10.68
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	314.68
Hydro Test Sample Weight (g) (not including beaker weight)	96.78
Tare + Oven-Dried #10 Washed (g)	10.68
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	98.71

Hygroscopic Moisture Content	
Tare Number	2898
Tare Weight (g)	1.51
Wet Soil + Tare (g)	45.96
Dry Soil + Tare (g)	44.895

Hydro Beaker: DT Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: AM
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 72054 Technician: AM

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7 48 00	START			
7:49 00	1	11	6	19.5°
7 50.00	2	9	6	19.5°
7:53:00	5	9	6	19.5°
8:03.00	15	8	6	19.5°
8.18:00	30	8	6	19.5°
8.48 00	60	7	6	20.0°
11:58 00	250	6	6	20.0°
7:48:00	1440			
7:48.00				

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 4 Technician: AM

Sieve Size	Cumulative Weight (g)
Empty Tare	@ 98.71 - 10.68
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
#4	
#10	
#16	@
#20	11.92
#40	25.41
#50	@
#60	38.37
#100	68.54
#200	96.58
Pan	98.21

Materials Testing and Consulting, Inc.

Sieve/Hydrometer Particle Size Analysis - Modified ASTM D421/422

MTC Job No.: 15D0452 MTC Sample ID: TS-2899 Setup Date: 12/3/15 Technician: au
Sample Description: Brown Sand
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Tare Number	2899
Tare Weight (g)	10.22
Tare + Air-Dried Sample Weight (g) (before #10 preparation)	253.76
Hydro Test Sample Weight (g) (not including beaker weight)	85.29
Tare + Oven-Dried #10 Washed (g)	10.94
Tare + Oven-Dried #200 Washed (g) (inlcuding plus #10 material)	78.40

Hygroscopic Moisture Content	
Tare Number	2899
Tare Weight (g)	1.53
Wet Soil + Tare (g)	45.31
Dry Soil + Tare (g)	43.89

Hydro Beaker: AN Calgon Batch #: 319 Calgon Date: 12/4/15 Technician: au
Method of Size Reduction: Sample Splitter [ ] Quartering [ ] Stockpile [X] Whole Sample [ ]

Hydrometer Analysis

12/10/2015 Hydrometer #: 276054 Technician: AN

Time	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
7:55 00	START			
7:56 00	1	27 137	6	19.5°
7.57:00	2	13	6	19.5°
8:00 00	5	13	6	19.5°
8.10:00	15	11	6	19.5°
8 25.00	30	10	6	19.5°
8:55:00	60	10	6	20.0°
12 05:00	250	8	6	20.0°
7:55.00	1440	8	6	19.5
7:55:00				

Sieve Analysis

Sieve Date: 12/14/15 Sieve Set #: 3 Technician: au

Sieve Size	Cumulative Weight (g)	
Empty Tare	10.18	
2"		
1 1/2"		
1"		
3/4"		
1/2"	10.45	
3/8"	10.45	
#4	10.55	
#10	10.78	
~~#16~~		(au)
#20	11.03	
#40	13.13	
~~#50~~		(au)
#60	31.40	
#100	57.40	
#200	77.27	
Pan	79.29	

1101F A
ASTM Sieve/Hydrometer

Rev. 003
7/29/13

*Jar Broke 12/3/15 au

ARP2 . 00032

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 11/27/15

ANALYTICAL RESOURCES INCORPORATED

ARI Project: ARP2

MTC JOB# 15TC01-152 6.2°C

Laboratory: Materials Testing & Consulting, Inc
Lab Contact: Harold Benny
Lab Address: 4611 S. 134th Pl
Tukwila, WA 98168
Phone: 360-255-9802
Fax:

ARI Client: Dalton, Olmsted & Fuglevand, I
Project ID: ICS/Former NW Cooperage
ARI PM: Cheronne Oreiro
Phone: 206-695-6214
Fax: 206-695-6201
Email: subdata@arilabs.com

Analytical Protocol: In-house
Special Instructions: No Dup

Requested Turn Around: **12/11/15**
Email Results (Y/N): **Yes**

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.*

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
15-23070-ARP2A T15-2891	ICS-P28-SO-13-121514	12/15/14 13:00	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					
15-23071-ARP2B T15-2892	ICS-P28-SO-22-121514	12/15/14 13:20	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					
15-23072-ARP2C T15-2893	ICS-P28-SO-42-121514	12/15/14 15:00	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					
15-23073-ARP2D T15-2894	ICS-P32-SO-13-121514	12/15/14 08:00	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					
15-23074-ARP2E T15-2895	ICS-P32-SO-22-121514	12/15/14 08:20	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					
15-23075-ARP2F T15-2896	ICS-P32-SO-42-121514	12/15/14 10:50	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					
15-23076-ARP2G T15-2897	ICS-P31-SO-13-120914	12/09/14 08:30	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					

Carrier	Airbill		Date	
Relinquished by	Company ARI	Date 12/2/15	Time 1150	
Received by	Company MTC	Date 12/2/15	Time 1150	

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 11/27/15

ANALYTICAL RESOURCES INCORPORATED

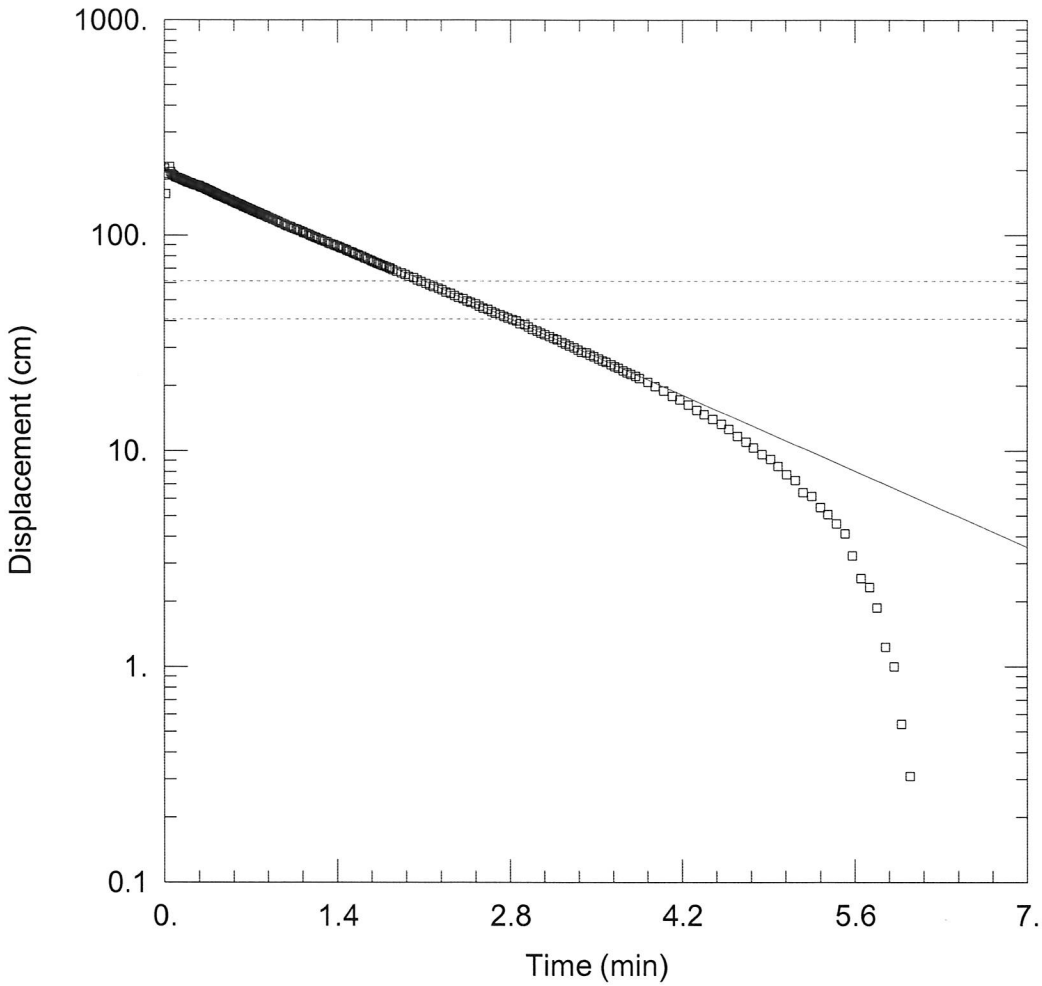
ARI Project: ARP2
MTC JOB#157001-152

Laboratory: Materials Testing & Consulting, In ARI Client: Dalton, Olmsted & Fuglev
Lab Contact: Harold Benny Project ID: ICS/Former NW Cooperage

ARI Sample ID	Client Sample ID/ Add'l Sample ID	Sampled	Matrix	Bottles	Analyses
15-23077-ARP2H T15-2898	ICS-P31-SO-22-120914	12/09/14 08:50	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					
15-23078-ARP2I T15-2899	ICS-P31-SO-42-120914	12/09/14 10:30	Soil	1	ASTM D422 SUB GSASTM D422
Special Instructions: None					

- If PO for sample
- Need QC (N/C
- Samples have been stored frozen.

Carrier	Airbill		Date
~~Relinquished by~~	Company ARI	Date 12/2/15	Time 1150
Received by	Company MTC	Date 12/2/15	Time 1150



HC-B1

WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - HCB1.aqt
Date: 09/10/16 Time: 10:52:05

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: HC-B1
Test Date: 1-25-16

AQUIFER DATA

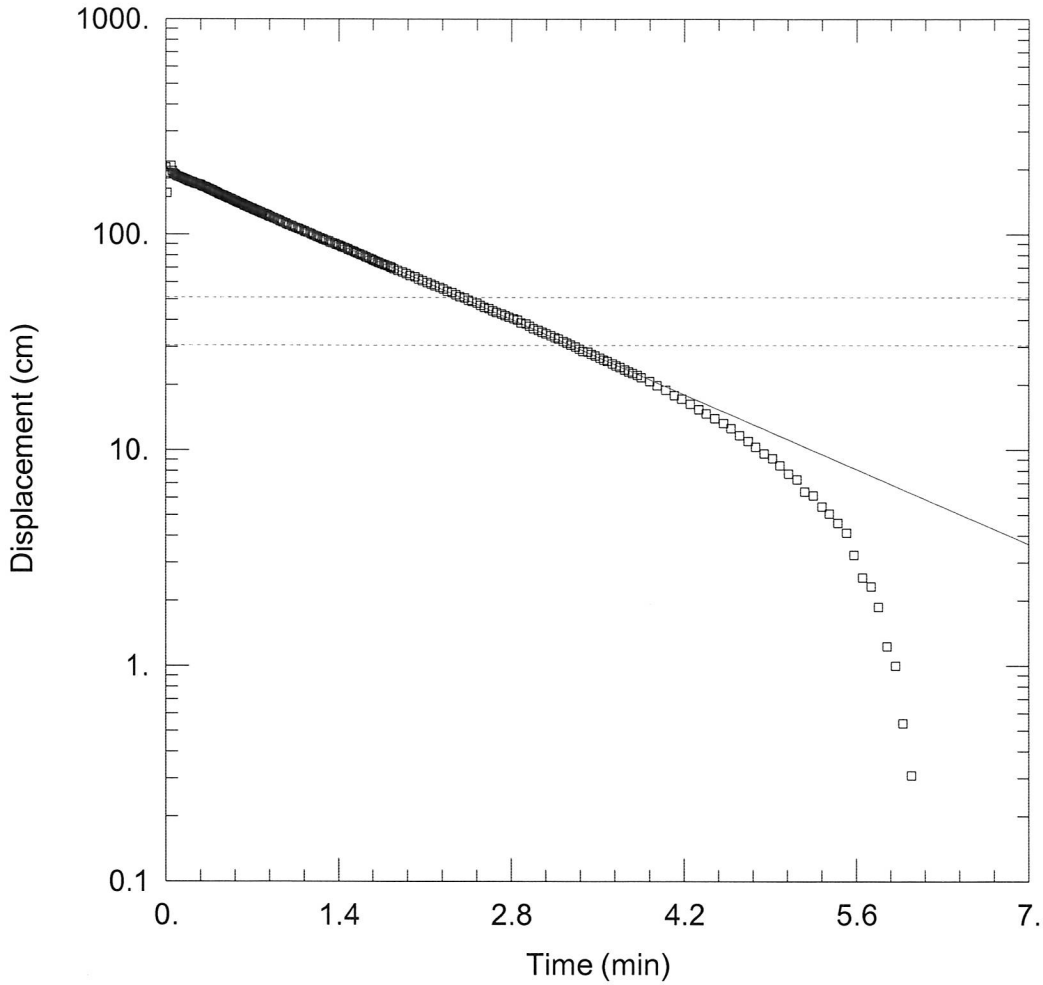
Saturated Thickness: 700. cm
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (New Well)

Initial Displacement: 204. cm
Total Well Penetration Depth: 436. cm
Casing Radius: 2.54 cm
Static Water Column Height: 436. cm
Screen Length: 152. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
K = 0.0003151 cm/sec
Solution Method: Bouwer-Rice
y0 = 206.7 cm



HC-B1

WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - HCB1.aqt
Date: 09/10/16 Time: 10:48:35

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: HC-B1
Test Date: 1-25-16

AQUIFER DATA

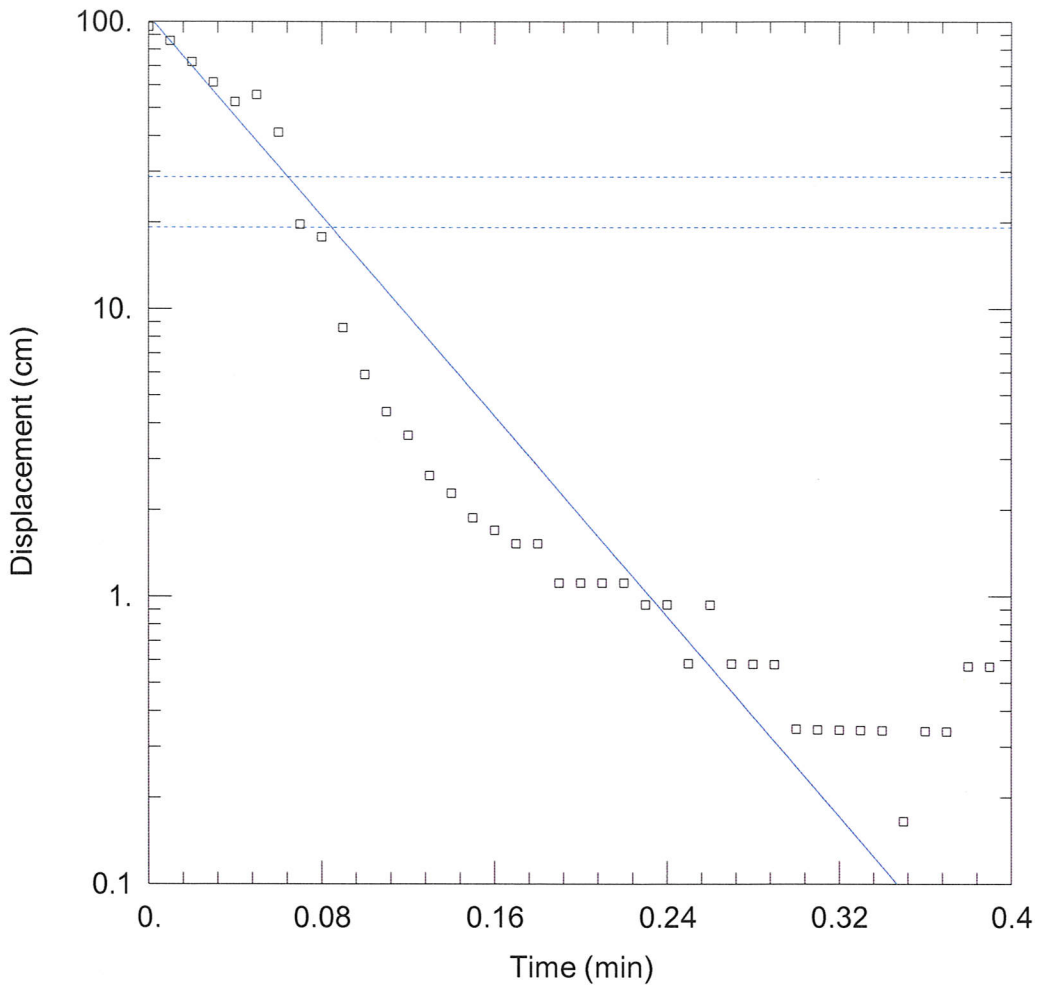
Saturated Thickness: 700. cm Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (New Well)

Initial Displacement: 204. cm
Total Well Penetration Depth: 436. cm
Casing Radius: 2.54 cm
Static Water Column Height: 436. cm
Screen Length: 152. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.000395 cm/sec
y0 = 199.3 cm



MW-6

WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MW6.aqt
Date: 09/10/16 Time: 11:06:31

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW6
Test Date: 1-25-16

AQUIFER DATA

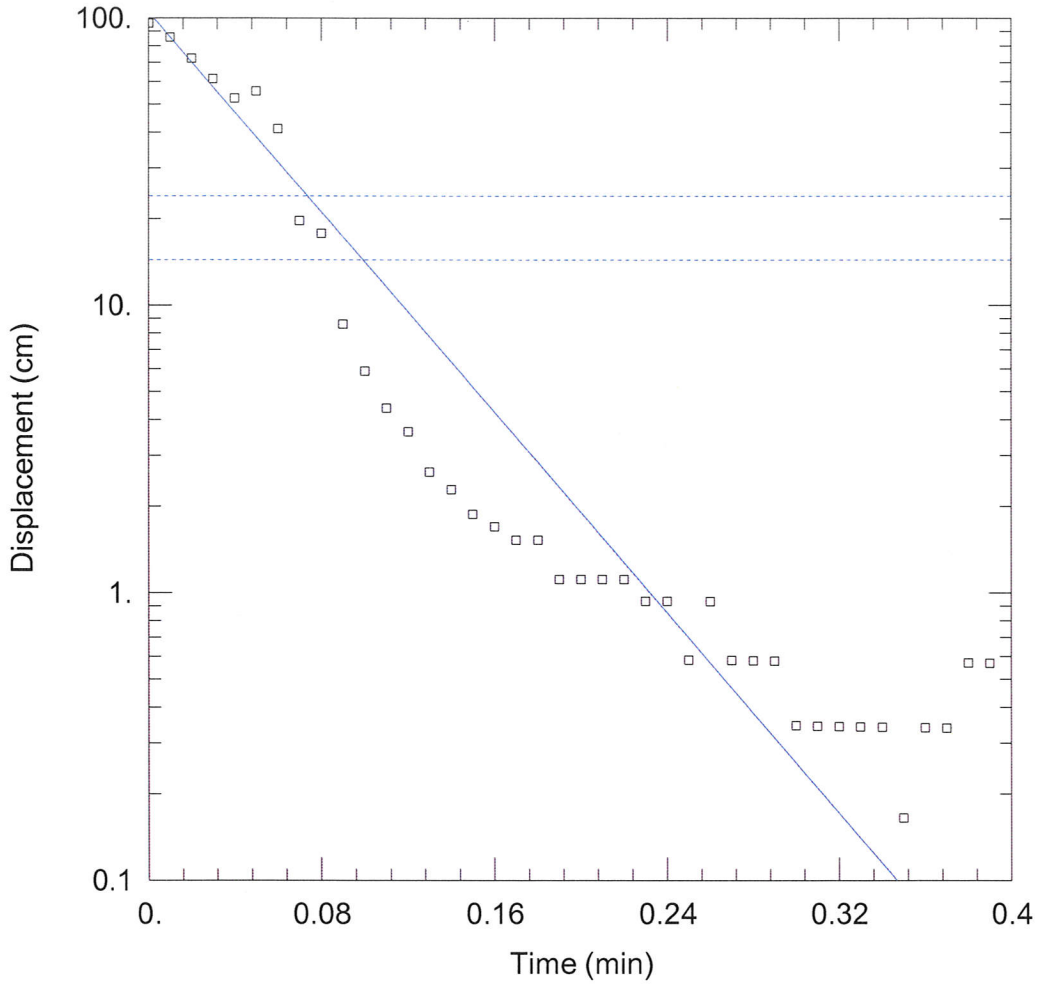
Saturated Thickness: 518. cm Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW6)

Initial Displacement: 95.8 cm
Total Well Penetration Depth: 366. cm
Casing Radius: 2.54 cm
Static Water Column Height: 365. cm
Screen Length: 152. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice
K = 0.01081 cm/sec
y0 = 104.5 cm



MW-6

WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MW6.aqt
Date: 09/10/16 Time: 11:07:04

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW6
Test Date: 1-25-16

AQUIFER DATA

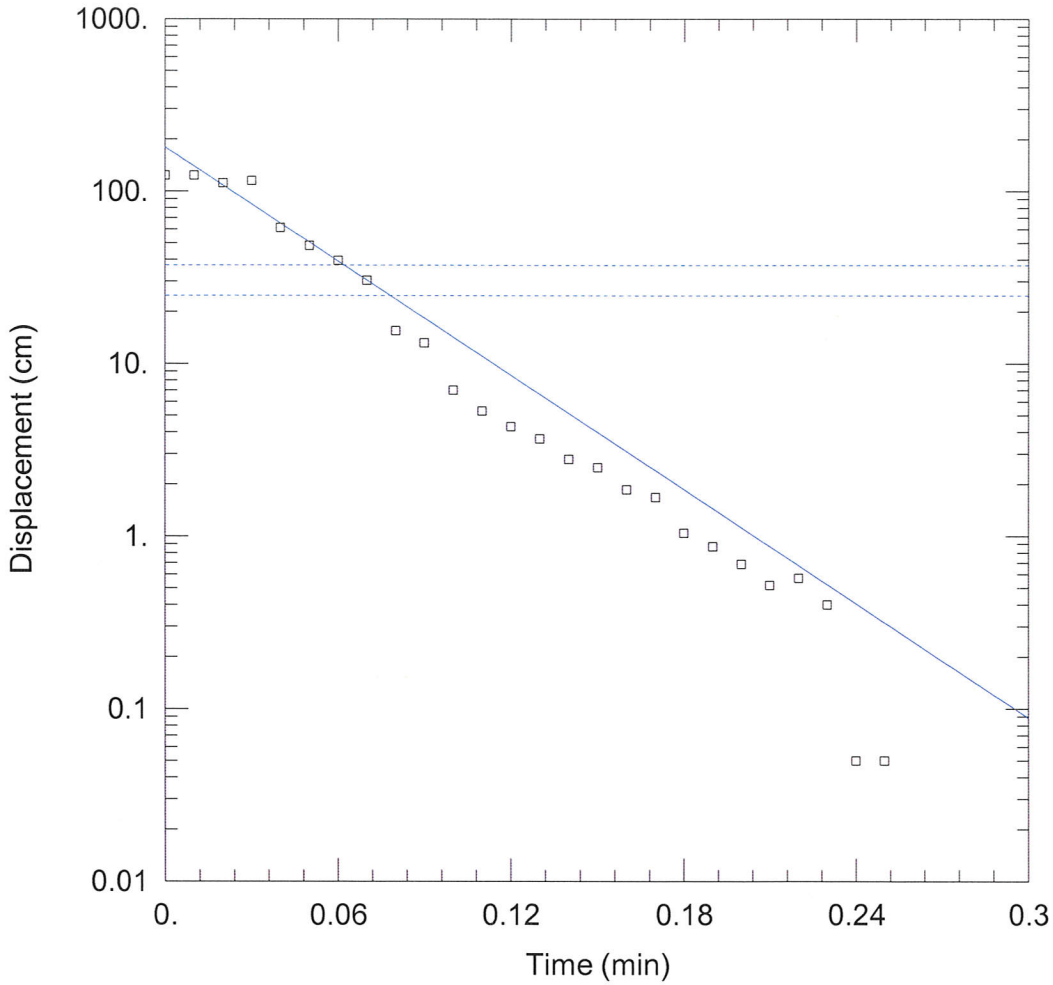
Saturated Thickness: 518. cm Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW6)

Initial Displacement: 95.8 cm
Total Well Penetration Depth: 366. cm
Casing Radius: 2.54 cm
Static Water Column Height: 365. cm
Screen Length: 152. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.01386 cm/sec
y0 = 104.5 cm



MW-7

WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MW7.aqt
Date: 09/10/16 Time: 11:00:05

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW7
Test Date: 1-25-16

AQUIFER DATA

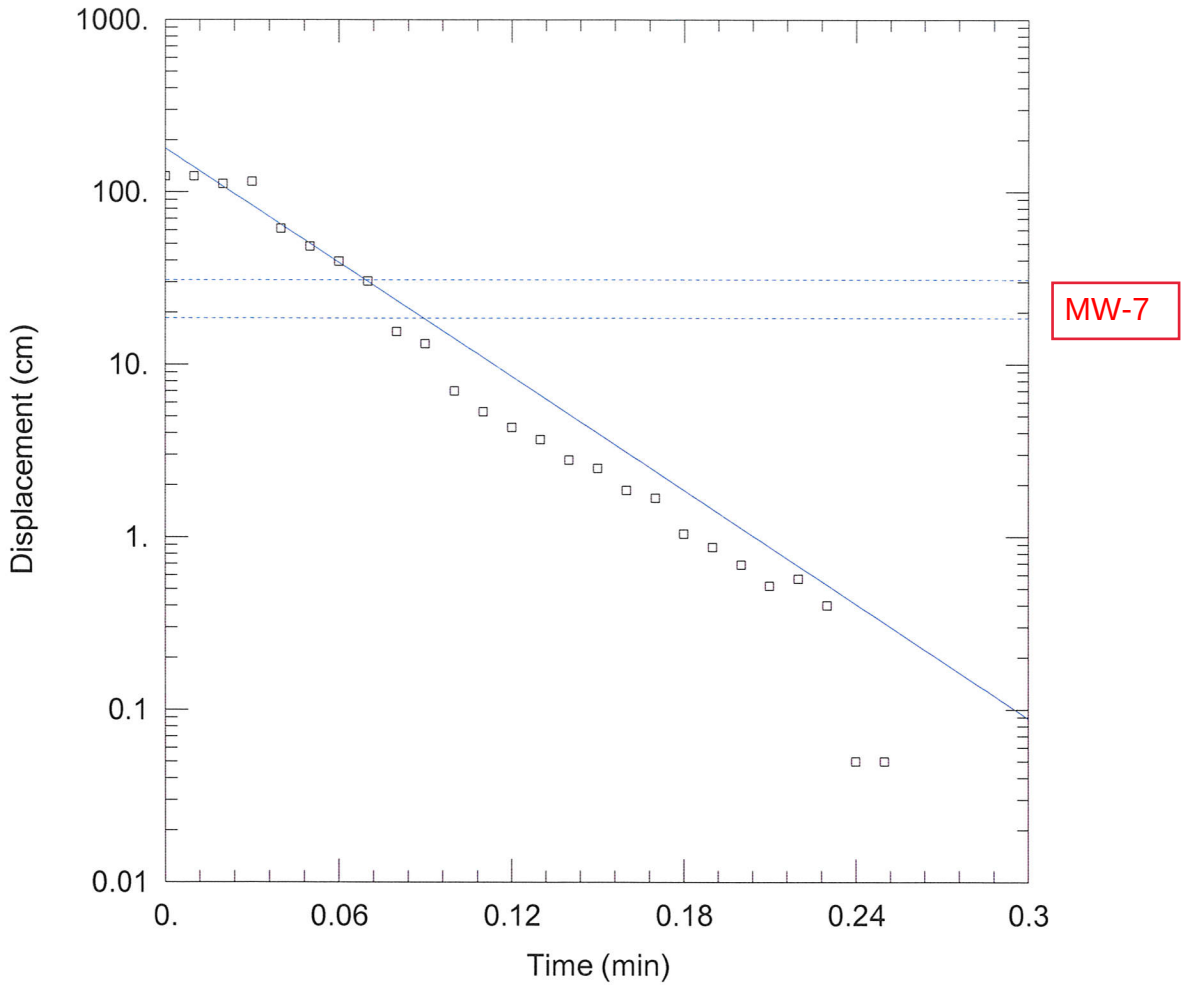
Saturated Thickness: 464. cm Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW7)

Initial Displacement: 123.5 cm
Total Well Penetration Depth: 309. cm
Casing Radius: 2.54 cm
Static Water Column Height: 309. cm
Screen Length: 152. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01337 cm/sec
y0 = 179.1 cm



WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MW7.aqt
Date: 09/10/16 Time: 11:00:36

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW7
Test Date: 1-25-16

AQUIFER DATA

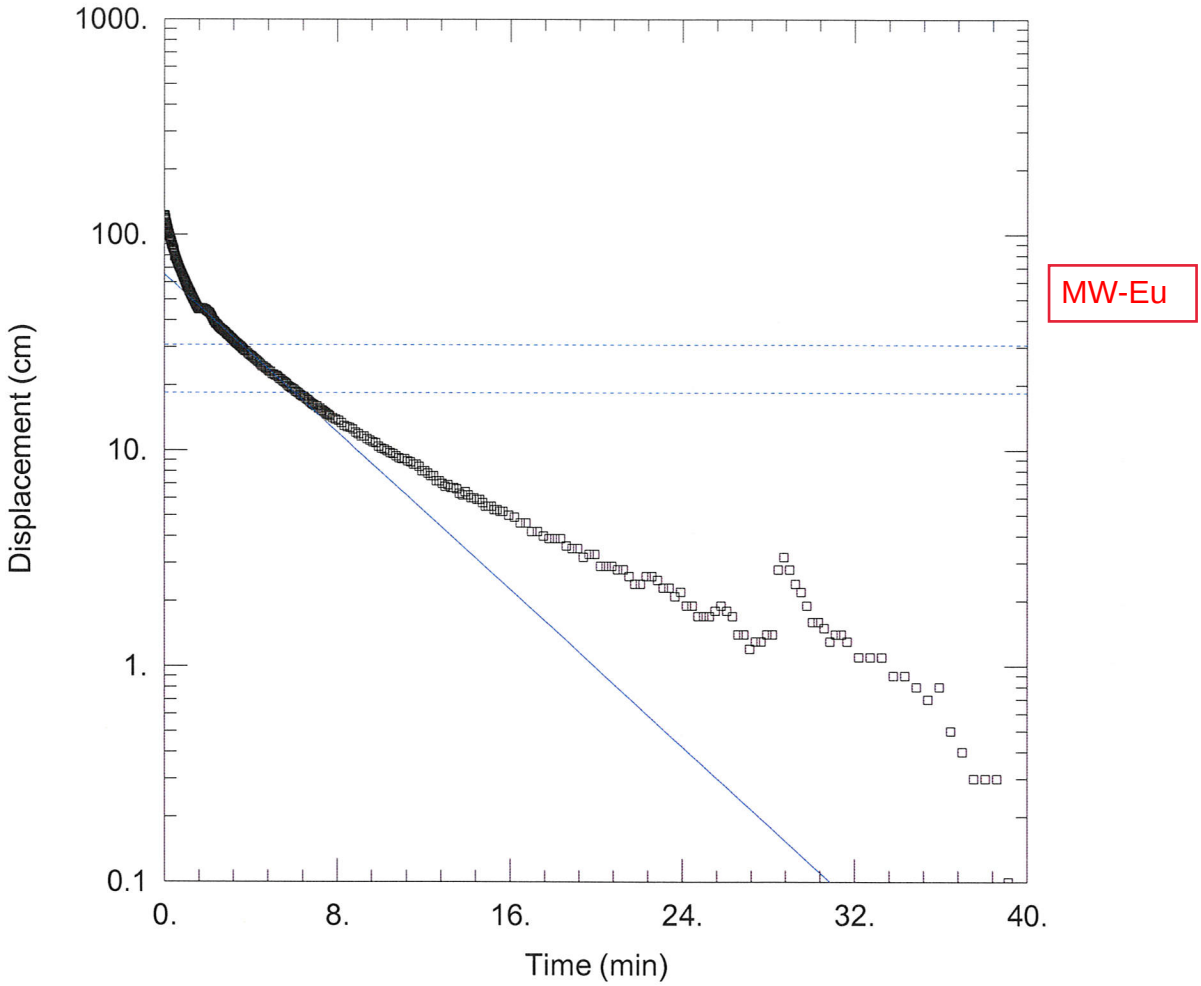
Saturated Thickness: 464. cm
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW7)

Initial Displacement: 123.5 cm
Total Well Penetration Depth: 309. cm
Casing Radius: 2.54 cm
Static Water Column Height: 309. cm
Screen Length: 152. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
K = 0.01754 cm/sec
Solution Method: Hvorslev
y0 = 179.1 cm



WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MWEu.aqt
Date: 09/10/16 Time: 11:03:39

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW-Eu
Test Date: 1-25-16

AQUIFER DATA

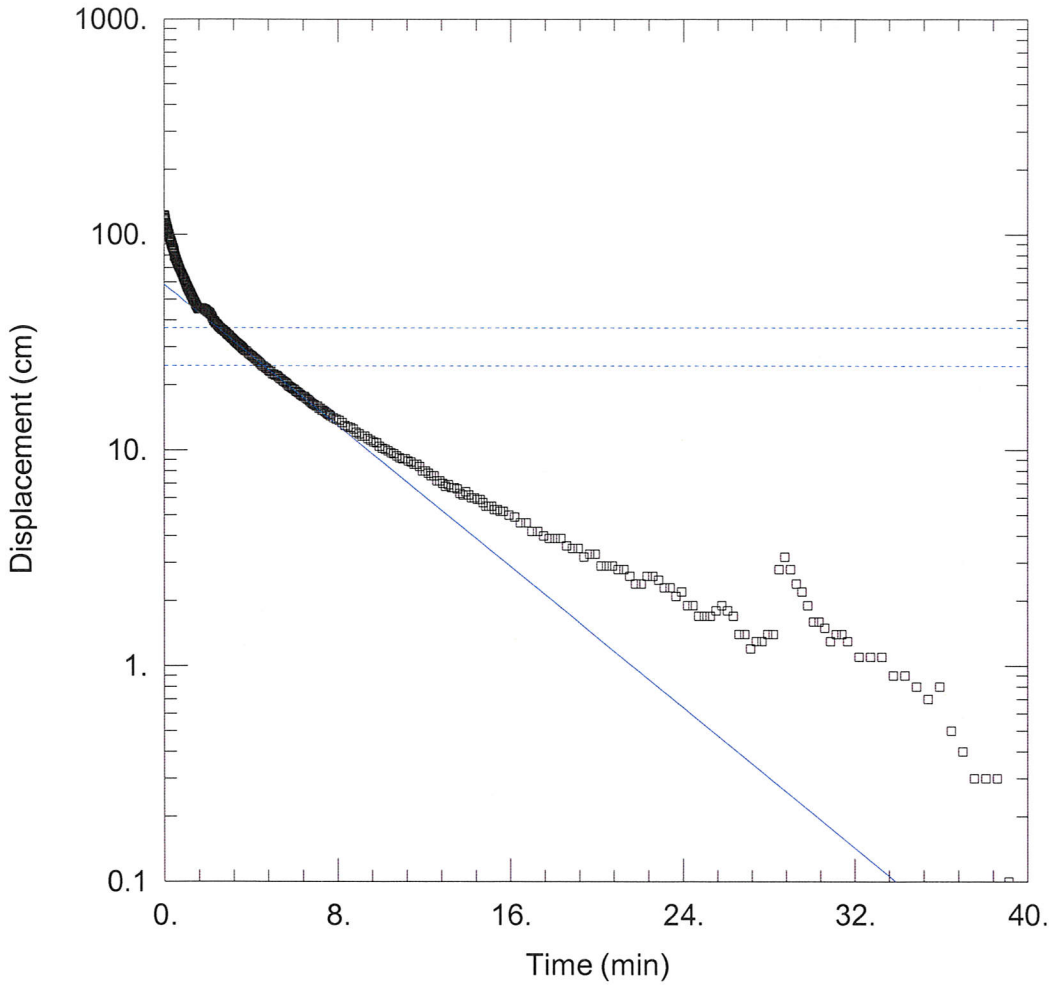
Saturated Thickness: 440. cm
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-Eu)

Initial Displacement: 123. cm
Total Well Penetration Depth: 305.1 cm
Casing Radius: 2.54 cm
Static Water Column Height: 145. cm
Screen Length: 305. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
K = 8.371E-5 cm/sec
Solution Method: Hvorslev
y0 = 65.2 cm



MW-Eu

WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MWEu.aqt
Date: 09/10/16 Time: 11:04:34

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW-Eu
Test Date: 1-25-16

AQUIFER DATA

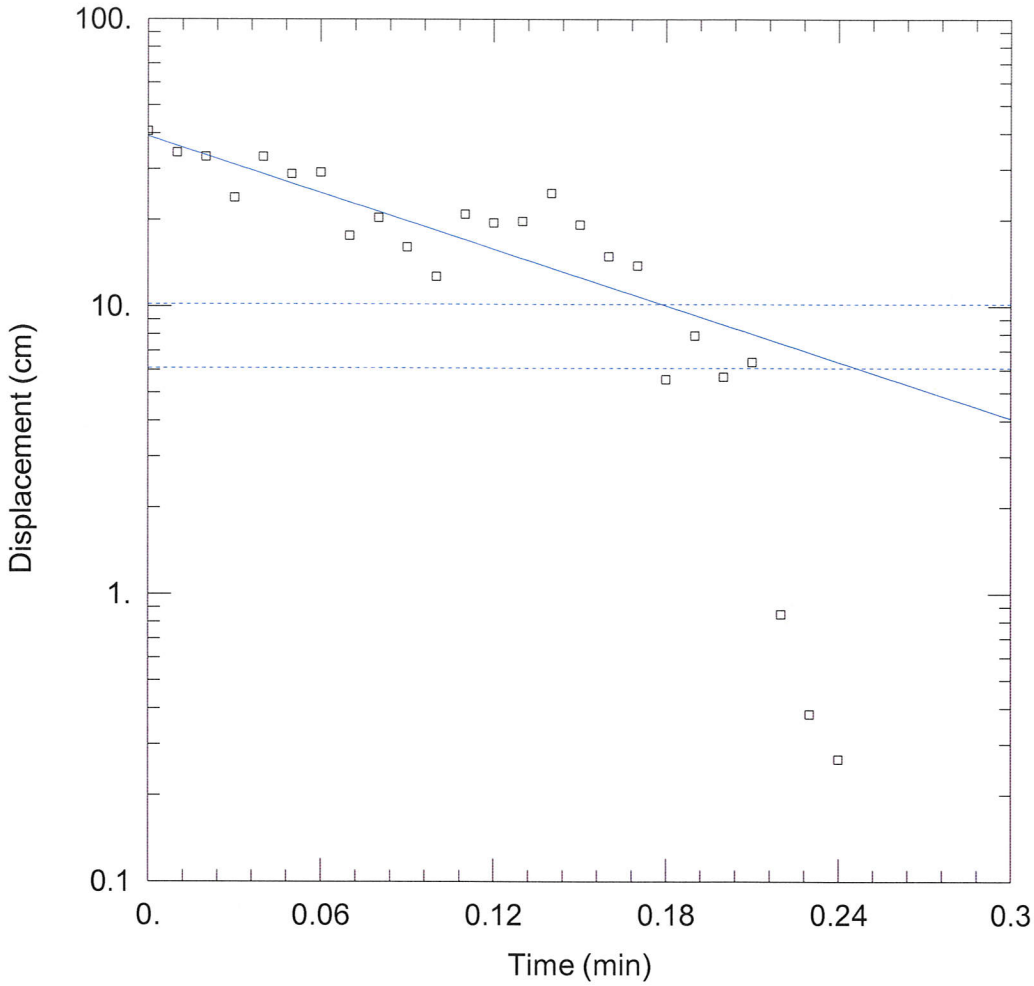
Saturated Thickness: 440. cm Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-Eu)

Initial Displacement: 123. cm
Total Well Penetration Depth: 305.1 cm
Casing Radius: 2.54 cm
Static Water Column Height: 145. cm
Screen Length: 305. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 5.324E-5 cm/sec
y0 = 58.37 cm



MW-IL

WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MWIL.aqt
Date: 09/10/16 Time: 11:12:10

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW-II
Test Date: 1-25-16

AQUIFER DATA

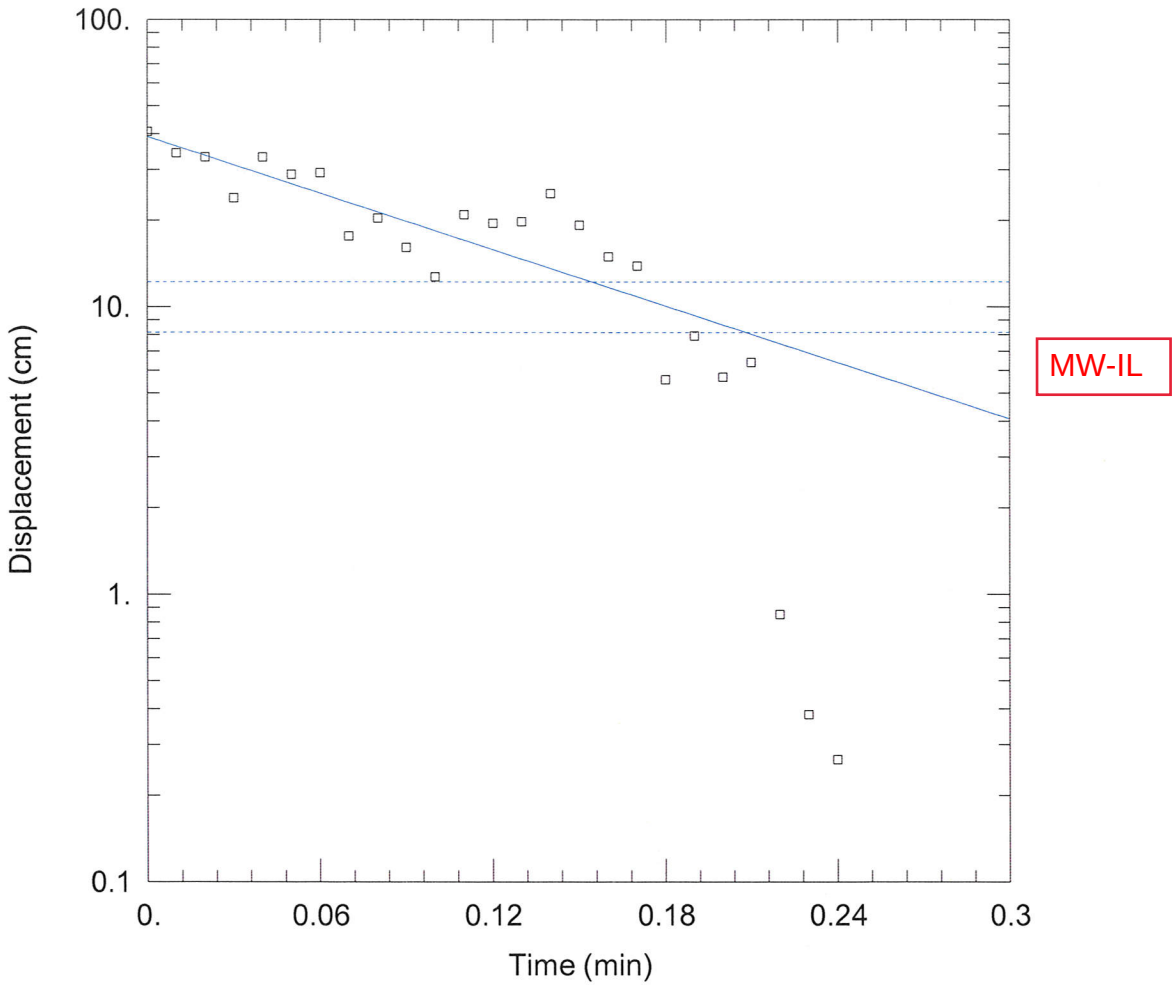
Saturated Thickness: 949. cm
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MWIL)

Initial Displacement: 40.65 cm
Total Well Penetration Depth: 812. cm
Casing Radius: 2.54 cm
Static Water Column Height: 812. cm
Screen Length: 305. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.003005 cm/sec
y0 = 39.01 cm



WELL TEST ANALYSIS

Data Set: D:\Project Files New\Ind. Container Serv\aPhase 2b Data Gap\K Testing\Aqtw1 - MWIL.aqt
Date: 09/10/16 Time: 11:12:48

PROJECT INFORMATION

Company: DOF
Client: ICS-NWC
Project: SUM-008
Location: Seattle
Test Well: MW-II
Test Date: 1-25-16

AQUIFER DATA

Saturated Thickness: 949. cm Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MWIL)

Initial Displacement: 40.65 cm
Total Well Penetration Depth: 812. cm
Casing Radius: 2.54 cm
Static Water Column Height: 812. cm
Screen Length: 305. cm
Well Radius: 2.54 cm

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.002441 cm/sec
y0 = 39.01 cm

APPENDIX F
SEDIMENT ANALYTICAL DATA TABLES
1991 to 2007 (Various), 2008 (DOF), 2012 (DOF) AND 2014 (DOF) SAMPLE ANALYSES
ICS/NWC – EMBAYMENT SAMPLE LOCATIONS

REMEDIAL INVESTION REPORT
ICS/NWC RI/FS
SEATTLE, WASHINGTON

- **TABLE F.1** – RESULTS OF SURFACE SEDIMENT SAMPLE ANALYES – 1991 to 2007
- **TABLE F.2a** – RESULTS OF SURFACE SEDIMENT SAMPLE ANALYES – 2012 and 2014
- **TABLE F.2b** – BaPEq-TEQ CALCULATIONS – Embayment Surface Sediment – 2012 Data
- **TABLE F.3** – SURFACE SEDIMENT GRAIN SIZE ANALYSES – 2012
- **TABLE F.4a** – RESULTS OF SUBSURFACE SEDIMENT SAMPLE ANALYSES – 2012
- **TABLE F.4b** – BaPEq-TEQ CALCULATIONS – Embayment Subsurface Sediment – 2012 Data
- **TABLE F.5** – LDW-SC40 CORE SEDIMENT DATA

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	SS-1	SS-2	SS-3	Sed. 1	Sed. 2	Sed. 3	Sed. 4	Sed. 4 FD	Sed. 5 (d)
Date	1991	1991	1991	May-07	May-07	May-07	May-07	May-07	May-07
Source	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(b)	(b)
Coordinate X	-----	-----	-----	-----	-----	-----	-----	-----	-----
Coordinate Y	-----	-----	-----	-----	-----	-----	-----	-----	-----
Depth (cm)	<8	<8	<8	<10	<10	<10	<10	<10	-----
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Solids (%)	-----	-----	-----	57.7	48.6	85.5	84.1	80.7	71.7
Total Organic Carbon (%)	-----	-----	-----	12	6.45	1.07	0.95	1.02	1.88
Petroleum Hydrocarbons									
Gasoline Range Organics	-----	-----	-----	<20	**200**	<20	<20	<20	<20
Diesel Range Organics	-----	-----	-----	**10000**	**6800**	**100**	**380**	**210**	**280**
Residual Range Organics	-----	-----	-----	**20000**	**15000**	**400**	**1500**	**650**	**1200**
Total Metals									
Aluminum	-----	-----	-----	-----	-----	-----	-----	-----	-----
Antimony	-----	-----	-----	-----	-----	-----	-----	-----	-----
Arsenic	<16	<22	<18	**48.7**	**20.1**	**2.6**	**3.7**	**2.3**	**7.8**
Barium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Beryllium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	<0.78	**2.1**	**1.5**	**36.3**	**6.69**	**0.153**	**0.714**	**0.603**	**1.13**
Calcium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	**60.2**	**103**	**89.9**	**1680**	**507**	**15.1**	**28.5**	**22.6**	**48.8**
Cobalt	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	**370**	**211**	**289**	**1090**	**157**	**19.6**	**34.4**	**28.5**	**146**
Iron	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	**247**	**529**	**422**	**10400**	**4280**	**35.9**	**137**	**115**	**225**
Magnesium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Manganese	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	**0.22**	**0.29**	**1.8**	**247**	**59.5**	**0.21**	**0.203**	**0.179**	**0.296**
Molybdenum	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	**17.4**	**26.2**	**23.6**	-----	-----	-----	-----	-----	-----
Potassium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Selenium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	-----	-----	-----	**19**	**0.676**	**0.174**	**0.13**	**0.231**	**0.918**
Sodium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Thallium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Tin	-----	-----	-----	-----	-----	-----	-----	-----	-----
Vanadium	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	**287**	**362**	**280**	**4580**	**2140**	**43.5**	**175**	**141**	**255**
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,1,1-Trichloroethane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
1,1,2,2-Tetrachloroethane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
1,1,2-Trichloroethane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
1,1,2-Trichlorotrifluoroethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,1-Dichloroethane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
1,1-Dichloroethene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
1,1-Dichloropropene	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3-Trichlorobenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3-Trichloropropane	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,4-Trimethylbenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2-Dibromo-3-chloropropane	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2-Dibromoethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2-Dichloroethane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
1,2-Dichloropropane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
1,3,5-Trimethylbenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,3-Dichloropropane	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,Chlorobutane	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,2-Dichloropropane	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Chlorotoluene	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Hexanone	<0.016	<0.022	<0.018	-----	-----	-----	-----	-----	-----
2-Nitropropane	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Chlorotoluene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acetone	0.075	0.53	<0.018	-----	-----	-----	-----	-----	-----
Allyl chloride	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Bromobenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	SS-1	SS-2	SS-3	Sed. 1	Sed. 2	Sed. 3	Sed. 4	Sed. 4 FD	Sed. 5 (d)
Date	1991	1991	1991	May-07	May-07	May-07	May-07	May-07	May-07
Source	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(b)	(b)
Coordinate X	-----	-----	-----	-----	-----	-----	-----	-----	-----
Coordinate Y	-----	-----	-----	-----	-----	-----	-----	-----	-----
Depth (cm)	<8	<8	<8	<10	<10	<10	<10	<10	-----
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bromochloromethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bromodichloromethane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Bromoform	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Bromomethane	<0.016	<0.022	<0.018	-----	-----	-----	-----	-----	-----
Carbon disulfide	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Carbon Tetrachloride	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Chlorobenzene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Chloroethane	<0.016	<0.022	<0.018	-----	-----	-----	-----	-----	-----
Chloroform	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Chloromethane	<0.016	<0.022	<0.018	-----	-----	-----	-----	-----	-----
cis-1,2-Dichloroethene	-----	-----	-----	-----	-----	-----	-----	-----	-----
cis-1,3-Dichloropropene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Dibromochloromethane	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Dibromomethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dichlorodifluoromethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dichloromethane	<0.0078	0.011	<0.009	-----	-----	-----	-----	-----	-----
Diethyl ether	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ethy Methacrylate	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ethylbenzene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Iodomethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Isopropylbenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Methacrylonitrile	-----	-----	-----	-----	-----	-----	-----	-----	-----
Methyl Acrylate	-----	-----	-----	-----	-----	-----	-----	-----	-----
Methyl ethyl ketone	<0.016	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Methyl isobutyl ketone	-----	-----	-----	-----	-----	-----	-----	-----	-----
Methyl methacrylate	-----	-----	-----	-----	-----	-----	-----	-----	-----
n-Butylbenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
n-Propylbenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
p-Cymene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pentachloroethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
sec-Butlybenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Styrene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Tert-butyl methyl ether	-----	-----	-----	-----	-----	-----	-----	-----	-----
tert-Butylbenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Tetrachloroehtene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Toluene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
trans-1,2-Dichloroethene	-----	-----	-----	-----	-----	-----	-----	-----	-----
trans-1,3-Dichloropropene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Trichloroethene	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Trichlorofluoromethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Vinyl chloride	<0.016	<0.022	<0.018	-----	-----	-----	-----	-----	-----
Xylene (m &p)	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Xylene (o)	<0.0078	<0.011	<0.009	-----	-----	-----	-----	-----	-----
Semivolatile Organic Compounds									
1,2,4-Trichlorobenzene	-----	-----	-----	**0.94**	<2.1	<0.049	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	-----	-----	-----	**0.67**	<2.1	<0.049	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,4-Dichlorobenzene	-----	-----	-----	<2	**1.1**	<0.049	<0.1	<0.1	<0.1
1-Methylnaphthalene	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4-Dichlorophenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4-Dinitrophenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4-Dinitrotoluene	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,6-Dinitrotoluene	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4-Dimethylphenol	-----	-----	-----	<10	<11	<0.25	<0.5	<0.5	<0.5
2,4,5-Trichlorophenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4,6-Trichlorophenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Chloronaphthalene	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Chlorophenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Methylnaphthalene	-----	-----	-----	**1.6**	**0.49**	<0.049	**0.028**	**0.032**	**0.035**
2-Methylphenol	-----	-----	-----	<2	<2.1	<0.049	<0.1	<0.1	<0.1

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	SS-1	SS-2	SS-3	Sed. 1	Sed. 2	Sed. 3	Sed. 4	Sed. 4 FD	Sed. 5 (d)
Date	1991	1991	1991	May-07	May-07	May-07	May-07	May-07	May-07
Source	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(b)	(b)
Coordinate X	-----	-----	-----	-----	-----	-----	-----	-----	-----
Coordinate Y	-----	-----	-----	-----	-----	-----	-----	-----	-----
Depth (cm)	<8	<8	<8	<10	<10	<10	<10	<10	-----
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
2-Nitroaniline	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Nitrophenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
3,3-Dchlorobenzidine	-----	-----	-----	-----	-----	-----	-----	-----	-----
3-Nitroaniline	-----	-----	-----	-----	-----	-----	-----	-----	-----
4,6-Dinitro-o-cresol	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Bromophenyl phenyl ether	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Chloro-3-methylphenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Chloroaniline	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Chlorophenyl phenyl ether	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Methylphenol	-----	-----	-----	**0.51**	<2.1	**0.03**	<0.1	<0.1	<0.1
4-Nitroaniline	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Nitrophenol	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthene	<0.51	<0.73	<0.60	**0.47**	<2.1	**0.012**	<0.1	**0.041**	<0.1
Acenaphthylene	<0.51	<0.73	<0.60	**0.48**	<2.1	<0.049	<0.1	<0.1	<0.1
Aniline	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	<0.51	<0.73	<0.60	**0.63**	**0.75**	**0.012**	**0.023**	**0.15**	**0.035**
Benzo(a)anthracene	<0.51	<0.73	<0.60	**0.53**	**4.2**	**0.019**	**0.087**	**0.34**	**0.067**
Benzo(a)pyrene	<0.51	<0.73	<0.60	**0.94**	**3.3**	**0.019**	**0.09**	**0.26**	**0.07**
Benzo(b)fluoranthene	<0.51	<0.73	<0.60	**1.1**	**4.5**	**0.031**	**0.14**	**0.42**	**0.13**
Benzo(e)pyrene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	<0.51	<0.73	<0.60	**0.91**	**2.2**	**0.02**	**0.088**	**0.21**	**0.098**
Benzo(k)fluoranthene	<0.51	<0.73	<0.60	**0.38**	**2**	**0.012**	**0.053**	**0.15**	**0.036**
Total Benzofluoranthenes	<0.51	<0.73	<0.60	**1.29**	**4.2**	**0.032**	**0.141**	**0.36**	**0.134**
Benzoic Acid	-----	-----	-----	<40	<42	<0.98	<2	<2	<2
Benzyl Alcohol	-----	-----	-----	<4	<4.2	<0.098	<0.2	<0.2	<0.2
Biphenyl	-----	-----	-----	-----	-----	-----	-----	-----	-----
bis(2-chloroethoxy)methane	-----	-----	-----	-----	-----	-----	-----	-----	-----
bis(2-chlorethyl)ether	-----	-----	-----	-----	-----	-----	-----	-----	-----
bis(2-chloroisopropyl)ether	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bis(2-ethylhexyl)phthalate	-----	-----	-----	**6.5**	**17**	**0.14**	**0.76**	**0.42**	**2.2**
Butylbenzylphthalate	-----	-----	-----	**3.3**	<2.1	<0.049	<0.1	<0.1	**0.88**
Carbozole	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	<0.51	<0.73	<0.60	**0.92**	**4.8**	**0.022**	**0.098**	**0.29**	**0.074**
Dibenzo(ah)anthracene	<0.51	<0.73	<0.60	**0.32**	**0.57**	<0.049	**0.02**	**0.042**	<0.1
Dibenzofuran	-----	-----	-----	<2	<2.1	**0.0083**	<0.1	0.035	<0.1
Diethylphthalate	-----	-----	-----	<2	<2.1	<0.049	<0.1	<0.1	<0.1
Dimethylphthalate	-----	-----	-----	**0.44**	<2.1	<0.049	**0.013**	<0.1	**0.13**
Di-N-Butylphthalate	-----	-----	-----	<2	<2.1	<0.049	<0.1	<0.1	<0.12
Di-n-octyl phthalate	-----	-----	-----	<2	<2.1	<0.049	<0.1	<0.1	<0.1
Fluoranthene	<0.51	<0.73	<0.60	**1.1**	**7.3**	**0.054**	**0.17**	**1**	**0.17**
Fluorene	<0.51	<0.73	<0.60	**0.44**	<2.1	**0.0098**	<0.1	**0.081**	**0.019**
Hexachlorobenzene	-----	-----	-----	<2	<2.1	<0.049	<0.1	<0.1	<0.1
Hexachlorobutadiene	-----	-----	-----	<2	<2.1	<0.049	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	-----	-----	-----	-----	-----	-----	-----	-----	-----
Hexachloroethane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(123-cd)pyrene	<0.51	<0.73	<0.60	**0.77**	**1.9**	**0.02**	**0.085**	**0.21**	**0.069**
Isophorone	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	<0.51	<0.73	<0.60	**0.84**	<2.1	**0.017**	**0.034**	<0.1	**0.035**
Nitrobenzene	-----	-----	-----	-----	-----	-----	-----	-----	-----
N-Nitrosodimethylamine	-----	-----	-----	<2	<2.1	<0.049	<0.1	<0.1	<0.1
N-Nitroso-di-n-propylamine	-----	-----	-----	-----	-----	-----	-----	-----	-----
N-Nitrosodiphenylamine	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pentachlorophenol	-----	-----	-----	**14**	<21	<0.49	<1	<1	<1
Phenanthrene	<0.51	<0.73	<0.60	**1.4**	**0.72**	**0.032**	**0.057**	**0.8**	**0.097**
Phenol	-----	-----	-----	**0.74**	<6.2	**0.024**	<0.3	<0.3	<0.3
Pyrene	<0.51	-----	-----	**1.5**	**7.7**	**0.053**	**0.19**	**0.82**	**0.22**
Pesticides/PCBs									
2,4'-DDD	-----	-----	-----	<22	<1.8	<0.0099	<0.015	<0.028	**0.11**
2,4'-DDE	-----	-----	-----	<10	<1	<0.0099	<0.0098	<0.0098	<0.0086
2,4'-DDT	-----	-----	-----	<45	**5.9**	**0.021**	**0.032**	**0.044**	**0.15**

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	SS-1	SS-2	SS-3	Sed. 1	Sed. 2	Sed. 3	Sed. 4	Sed. 4 FD	Sed. 5 (d)
Date	1991	1991	1991	May-07	May-07	May-07	May-07	May-07	May-07
Source	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(b)	(b)
Coordinate X	-----	-----	-----	-----	-----	-----	-----	-----	-----
Coordinate Y	-----	-----	-----	-----	-----	-----	-----	-----	-----
Depth (cm)	<8	<8	<8	<10	<10	<10	<10	<10	-----
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
4,4'-DDD	<0.011	<0.380	<0.310	**15**	**2**	**0.0066**	**0.022**	**0.034**	**0.035**
4,4'-DDE	<0.011	<0.380	<0.310	**16**	**3.6**	**0.02**	**0.042**	**0.06**	**0.21**
4,4'-DDT	<0.011	<0.380	<0.310	**46**	**5.8**	**0.022**	**0.047**	**0.051**	<0.00099
Aldrin	<0.0053	<0.090	<0.150	<10	<1	<0.0099	<0.0098	<0.0098	<0.00099
alpha-BHC	<0.0053	<0.090	<0.150	-----	-----	-----	-----	-----	-----
alpha-Chlordane	-----	-----	-----	-----	-----	-----	-----	-----	-----
alpha-Endosulfan	-----	-----	-----	-----	-----	-----	-----	-----	-----
beta-BHC	<0.0053	<0.090	<0.150	-----	-----	-----	-----	-----	-----
beta-Endosulfan	-----	-----	-----	-----	-----	-----	-----	-----	-----
delta-BHC	<0.0053	<0.090	<0.150	-----	-----	-----	-----	-----	-----
Chlordane	-----	-----	-----	<100	<12	<0.099	<0.098	<0.11	<0.16
Cis-Nonachlor	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dieldrin	<0.011	<0.380	<0.310	<10	<1	<0.0099	<0.0098	<0.0099	<0.0025
Endosulfan sulfate	<0.011	<0.380	<0.310	-----	-----	-----	-----	-----	-----
Endrin	<0.011	<0.380	<0.310	-----	-----	-----	-----	-----	-----
Endrin aldehyde	<0.011	<0.380	<0.310	-----	-----	-----	-----	-----	-----
Endrin ketone	-----	-----	-----	-----	-----	-----	-----	-----	-----
gamma-BHC	-----	-----	-----	-----	-----	-----	-----	-----	-----
gamma-chlordane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Heptachlor	<0.0053	<0.090	<0.150	<10	<1	<0.0099	<0.0098	<0.0098	<0.00099
Heptachlor epoxide	<0.0053	<0.090	<0.150	-----	-----	-----	-----	-----	-----
Lindane	<0.0053	<0.090	<0.150	<10	<1	<0.0099	<0.0098	<0.0098	0.0017
Methoxychlor	<0.053	<3.800	<1.500	-----	-----	-----	-----	-----	-----
Mirex	-----	-----	-----	-----	-----	-----	-----	-----	-----
Oxychlordane	-----	-----	-----	-----	-----	-----	-----	-----	-----
Toxaphene	<0.110	<3.800	<3.100	-----	-----	-----	-----	-----	-----
Trans-Nonachlor	-----	-----	-----	-----	-----	-----	-----	-----	-----
PCB 1016	<0.0053	<1.900	<1.500	<100	<10	<0.099	<0.098	<0.98	<0.99
PCB 1221	<0.0053	<1.900	<1.500	<200	<20	<0.2	<0.2	<2.0	<2
PCB 1232	<0.0053	<1.900	<1.500	<100	<10	<0.099	<0.098	<0.98	<0.99
PCB 1242	<0.0053	<1.900	<1.500	**850**	**70**	**0.21**	**0.89**	**2.7**	**0.6**
PCB 1248	<0.0053	<1.900	<1.500	<100	<10	<0.099	<0.098	<0.98	<0.99
PCB 1254	<0.0053	<1.900	<1.500	**1500**	**120**	**0.36**	**0.74**	**2**	**1.3**
PCB 1260	**0.22**	**4.2**	**0.94**	**580**	**41**	**0.22**	**0.3**	<0.98	**1.7**
Total PCBs	**0.22**	**4.2**	**0.94**	**2930**	**231**	**0.79**	**1.93**	**4.7**	**3.6**
Dioxin/Furans (ng/kg)									
1,2,3,4,6,7,8-HpCDD	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,4,6,7,8-HpCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,4,7,8,9-HpCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,4,7,8-HxCDD	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,4,7,8-HxCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,6,7,8-HxCDD	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,6,7,8-HxCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,7,8,9-HxCDD	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,7,8,9-HxCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,7,8-PeCDD	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2,3,7,8-PeCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,3,4,6,7,8-HxCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,3,4,7,8-PeCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,3,7,8-TCDD	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,3,7,8-TCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
OCDD	-----	-----	-----	-----	-----	-----	-----	-----	-----
OCDF	-----	-----	-----	-----	-----	-----	-----	-----	-----
TEQ (h)	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	SS-1	SS-2	SS-3	Sed. 1	Sed. 2	Sed. 3	Sed. 4	Sed. 4 FD	Sed. 5 (d)
Date	1991	1991	1991	May-07	May-07	May-07	May-07	May-07	May-07
Source	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(b)	(b)
Coordinate X	-----	-----	-----	-----	-----	-----	-----	-----	-----
Coordinate Y	-----	-----	-----	-----	-----	-----	-----	-----	-----
Depth (cm)	<8	<8	<8	<10	<10	<10	<10	<10	-----
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Other Compounds									
Dibutyltin as ion	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monobutlytin as ion	-----	-----	-----	-----	-----	-----	-----	-----	-----
Tetrabutyltin as ion	-----	-----	-----	-----	-----	-----	-----	-----	-----
Tributyltin as ion	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: nd - Not detected
TR - Trace
(a) - SAIC Feb. 2007
(b) - SAIC July 2007
(c) - LDW Round 1 RI
(d) - Outfall sediment
(e) - EPA SI
(f) - LDW RI

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	LDW SS84	DR139	B5a-2	DR157	DR138
Date	Jan-05	Sep-98	Sep-04	Aug-98	Aug-98
Source	(c)	(e)	(g)	(e)	(e)
Coordinate X	1269997	1270186	1270183	1270346	1270354
Coordinate Y	200324	200341	200299	200349	200326
Depth (cm)	<15	<15	<15	<15	<15
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Solids (%)	56.6	-----	66.2	-----	-----
Total Organic Carbon (%)	4.12	2.96	1.4	5.47	0.47
Petroleum Hydrocarbons					
Gasoline Range Organics	-----	-----	-----	-----	-----
Diesel Range Organics	-----	-----	-----	-----	-----
Residual Range Organics	-----	-----	-----	-----	-----
Total Metals					
Aluminum	-----	**21000**	**-----**	**18000**	**8700**
Antimony	**0.3**	**6**	**0.74**	<10	<10
Arsenic	**12.3**	**9.9**	**7.4**	**10**	**5.2**
Barium	-----	**74**	-----	**81**	**23**
Beryllium	-----	**0.38**	-----	**0.32**	**0.14**
Cadmium	**2**	**0.9**	**0.296**	**1.2**	<0.2
Calcium	-----	**5.9**	-----	**6100**	**3900**
Chromium	**122**	**52**	**27**	**55**	**16**
Cobalt	**13.1**	**10**	**7.7**	**9**	**4**
Copper	**117**	**86**	**36.7**	**83**	**20**
Iron	**-----**	**32000**	-----	**27000**	**16000**
Lead	**615**	**180**	**74.7**	**250**	**23**
Magnesium	**-----**	**8100**	**-----**	**7700**	**3300**
Manganese	**-----**	**250**	**-----**	**200**	**280**
Mercury	**2.46**	**0.82**	**0.16**	**1.6**	**0.05**
Molybdenum	**5.1**	-----	**1.7**	-----	-----
Nickel	**39**	**24**	**16**	**19**	**9.7**
Potassium	**-----**	**2200**	-----	**2300**	**920**
Selenium	**8**	**1**	**0.3**	**14**	**8**
Silver	**1.7**	**1.1**	**0.168**	**1.1**	**0.11**
Sodium	**-----**	**9600**	-----	**17000**	**5300**
Thallium	<0.30	**0.11**	**0.068**	**0.1**	**0.03**
Tin	**-----**	**10**	-----	**9**	<4
Vanadium	**55.1**	**71**	**46.5**	**67**	**50**
Zinc	**417**	**240**	**121**	**250**	**57**
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	-----	<0.0033	-----	-----	-----
1,1,1-Trichloroethane	-----	<0.0033	-----	-----	-----
1,1,2,2-Tetrachloroethane	-----	<0.0033	-----	-----	-----
1,1,2-Trichloroethane	-----	<0.0033	-----	-----	-----
1,1,2-Trichlorotrifluoroethane	-----	<0.0033	-----	-----	-----
1,1-Dichloroethane	-----	<0.0033	-----	-----	-----
1,1-Dichloroethene	-----	<0.0033	-----	-----	-----
1,1-Dichloropropene	-----	<0.0033	-----	-----	-----
1,2,3-Trichlorobenzene	-----	<0.0065	-----	-----	-----
1,2,3-Trichloropropane	-----	<0.0033	-----	-----	-----
1,2,4-Trimethylbenzene	-----	<0.0033	-----	-----	-----
1,2-Dibromo-3-chloropropane	-----	<0.016	-----	-----	-----
1,2-Dibromoethane	-----	<0.0033	-----	-----	-----
1,2-Dichloroethane	-----	<0.0033	-----	-----	-----
1,2-Dichloropropane	-----	<0.0033	-----	-----	-----
1,3,5-Trimethylbenzene	-----	<0.0033	-----	-----	-----
1,3-Dichloropropane	-----	<0.0033	-----	-----	-----
1,Chlorobutane	-----	<0.0033	-----	-----	-----
2,2-Dichloropropane	-----	<0.0033	-----	-----	-----
2-Chlorotoluene	-----	<0.0033	-----	-----	-----
2-Hexanone	-----	<0.0065	-----	-----	-----
2-Nitropropane	-----	<0.016	-----	-----	-----
4-Chlorotoluene	-----	<0.0033	-----	-----	-----
Acetone	-----	<0.033	-----	-----	-----
Allyl chloride	-----	<0.0033	-----	-----	-----
Benzene	-----	<0.0033	-----	-----	-----
Bromobenzene	-----	<0.0033	-----	-----	-----

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	LDW SS84	DR139	B5a-2	DR157	DR138
Date	Jan-05	Sep-98	Sep-04	Aug-98	Aug-98
Source	(c)	(e)	(g)	(e)	(e)
Coordinate X	1269997	1270186	1270183	1270346	1270354
Coordinate Y	200324	200341	200299	200349	200326
Depth (cm)	<15	<15	<15	<15	<15
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bromochloromethane	-----	<0.0033	-----	-----	-----
Bromodichloromethane	-----	<0.0033	-----	-----	-----
Bromoform	-----	<0.0065	-----	-----	-----
Bromomethane	-----	<0.016	-----	-----	-----
Carbon disulfide	-----	<0.0065	-----	-----	-----
Carbon Tetrachloride	-----	<0.0033	-----	-----	-----
Chlorobenzene	-----	<0.0033	-----	-----	-----
Chloroethane	-----	<0.0065	-----	-----	-----
Chloroform	-----	<0.0033	-----	-----	-----
Chloromethane	-----	<0.0033	-----	-----	-----
cis-1,2-Dichloroethene	-----	<0.0033	-----	-----	-----
cis-1,3-Dichloropropene	-----	<0.0035	-----	-----	-----
Dibromochloromethane	-----	<0.0033	-----	-----	-----
Dibromomethane	-----	<0.0033	-----	-----	-----
Dichlorodifluoromethane	-----	<0.0033	-----	-----	-----
Dichloromethane	-----	<0.016	-----	-----	-----
Diethyl ether	-----	<0.0033	-----	-----	-----
Ethy Methacrylate	-----	<0.0033	-----	-----	-----
Ethylbenzene	-----	<0.0033	-----	-----	-----
Iodomethane	-----	<0.0033	-----	-----	-----
Isopropylbenzene	-----	<0.016	-----	-----	-----
Methacrylonitrile	-----	<0.016	-----	-----	-----
Methyl Acrylate	-----	<0.016	-----	-----	-----
Methyl ethyl ketone	-----	<0.0065	-----	-----	-----
Methyl isobutyl ketone	-----	<0.0065	-----	-----	-----
Methyl methacrylate	-----	<0.0065	-----	-----	-----
n-Butylbenzene	-----	<0.0033	-----	-----	-----
n-Propylbenzene	-----	<0.0033	-----	-----	-----
p-Cymene	-----	<0.0033	-----	-----	-----
Pentachloroethane	-----	<0.0033	-----	-----	-----
sec-Butlybenzene	-----	<0.0033	-----	-----	-----
Styrene	-----	<0.0033	-----	-----	-----
Tert-butyl methyl ether	-----	<0.0033	-----	-----	-----
tert-Butylbenzene	-----	<0.0033	-----	-----	-----
Tetrachloroehtene	-----	<0.0033	-----	-----	-----
Toluene	-----	<0.0033	-----	-----	-----
trans-1,2-Dichloroethene	-----	<0.0033	-----	-----	-----
trans-1,3-Dichloropropene	-----	<0.0061	-----	-----	-----
Trichloroethene	-----	<0.0033	-----	-----	-----
Trichlorofluoromethane	-----	<0.0033	-----	-----	-----
Vinyl chloride	-----	<0.0033	-----	-----	-----
Xylene (m &p)	-----	<0.0065	-----	-----	-----
Xylene (o)	-----	<0.0033	-----	-----	-----
Semivolatile Organic Compound					
1,2,4-Trichlorobenzene	<0.29	<0.02	<0.0086	<0.02	<0.02
1,2-Dichlorobenzene	<0.29	<0.02	<0.0086	<0.02	<0.02
1,3-Dichlorobenzene	<0.29	<0.02	<0.0086	<0.02	<0.02
1,4-Dichlorobenzene	<0.29	<0.02	<0.0086	<0.02	<0.02
1-Methylnaphthalene	-----	-----	0.01	-----	-----
2,4-Dichlorophenol	<1.4	<0.06	<0.0086	<0.06	<0.06
2,4-Dinitrophenol	<2.9	<0.20	<0.180	<0.20	<0.20
2,4-Dinitrotoluene	<1.4	<0.20	<0.0086	<0.20	<0.20
2,6-Dinitrotoluene	<1.4	<0.20	<0.0086	<0.20	<0.20
2,4-Dimethylphenol	<0.29	<0.02	<0.043	<0.02	<0.02
2,4,5-Trichlorophenol	<1.4	<0.20	<0.0086	<0.20	<0.20
2,4,6-Trichlorophenol	<1.4	<0.20	<0.0086	<0.20	<0.20
2-Chloronaphthalene	<0.29	<0.02	<0.0086	<0.02	<0.02
2-Chlorophenol	<0.29	<0.02	<0.0086	<0.02	<0.02
2-Methylnaphthalene	<0.29	**0.07**	**0.014**	**0.10**	<0.02
2-Methylphenol	<0.29	<0.02	<0.0086	<0.02	<0.02

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	LDW SS84	DR139	B5a-2	DR157	DR138
Date	Jan-05	Sep-98	Sep-04	Aug-98	Aug-98
Source	(c)	(e)	(g)	(e)	(e)
Coordinate X	1269997	1270186	1270183	1270346	1270354
Coordinate Y	200324	200341	200299	200349	200326
Depth (cm)	<15	<15	<15	<15	<15
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
2-Nitroaniline	<1.4	<0.10	<0.018	<0.10	<0.10
2-Nitrophenol	<1.4	<0.10	<0.0086	<0.10	<0.10
3,3-Dchlorobenzidine	<1.4	<0.20	<0.086	<0.20	<0.20
3-Nitroaniline	<1.4	<0.20	<0.018	<0.20	<0.20
4,6-Dinitro-o-cresol	<2.9	<0.20	<0.086	<0.20	<0.20
4-Bromophenyl phenyl ether	<0.29	<0.04	<0.0086	<0.04	<0.04
4-Chloro-3-methylphenol	<1.4	<0.04	<0.0086	<0.04	<0.04
4-Chloroaniline	<1.4	<0.06	<0.0086	<0.06	<0.06
4-Chlorophenyl phenyl ether	<0.29	<0.02	<0.0086	<0.02	<0.02
4-Methylphenol	<0.29	**0.03**	<0.0086	**0.03**	<0.02
4-Nitroaniline	<1.4	<0.10	<0.018	<0.10	<0.10
4-Nitrophenol	<1.4	<0.10	<0.086	<0.10	<0.10
Acenaphthene	<0.29	**0.18**	**0.0041**	**0.05**	<0.02
Acenaphthylene	<0.29	<0.02	**0.0046**	<0.02	<0.02
Aniline	<0.29	-----	<0.018	-----	-----
Anthracene	<0.29	**0.46**	**0.015**	**0.16**	<0.02
Benzo(a)anthracene	**0.4**	**0.33**	**0.041**	**0.44**	<0.02
Benzo(a)pyrene	**0.51**	**0.31**	**0.037**	**0.32**	<0.02
Benzo(b)fluoranthene	**0.69**	**0.51**	**0.054**	**0.48**	0.02
Benzo(e)pyrene	**-----**	-----	**0.044**	-----	-----
Benzo(ghi)perylene	**0.23**	**0.22**	**0.041**	**0.18**	<0.02
Benzo(k)fluoranthene	**0.44**	**0.29**	**0.046**	**0.36**	<0.02
Total Benzofluoranthenes	**0.67**	**0.51**	**0.087**	**0.54**	<0.02
Benzoic Acid	<2.9	<0.20	<0.180	<0.20	<0.20
Benzyl Alcohol	<0.29	<0.050	0.0082	<0.05	<0.05
Biphenyl	-----	-----	0.0041	-----	-----
bis(2-chloroethoxy)methane	<0.29	<0.040	<0.0086	<0.04	<0.04
bis(2-chlorethyl)ether	<0.29	<0.040	<0.0086	<0.04	<0.04
bis(2-chloroisopropyl)ether	<0.29	<0.040	<0.0086	<0.04	<0.04
Bis(2-ethylhexyl)phthalate	**4.2**	**2.5**	**0.052**	**2.3**	**0.03**
Butylbenzylphthalate	<0.29	**0.11**	**0.0074**	**0.09**	<0.02
Carbozole	<0.29	**0.21**	**0.0076**	**0.07**	<0.02
Chrysene	**0.7**	**0.48**	**0.081**	**0.68**	**0.03**
Dibenzo(ah)anthracene	<0.29	**0.08**	**0.0086**	<0.02	<0.02
Dibenzofuran	<0.29	**0.06**	**0.0058**	**0.03**	<0.02
Diethylphthalate	<0.29	<0.020	<0.0086	<0.02	<0.02
Dimethylphthalate	<0.29	**0.04**	**0.0034**	0.03	<0.02
Di-N-Butylphthalate	**0.38**	**0.07**	**0.0072**	**0.3**	<0.02
Di-n-octyl phthalate	<0.29	<0.020	<0.018	<0.02	<0.02
Fluoranthene	**1.1**	**0.82**	**0.16**	**0.68**	**0.03**
Fluorene	**<0.29**	**0.14**	**0.0065**	**0.05**	<0.02
Hexachlorobenzene	<0.017	<0.020	**0.0006**	<0.02	<0.02
Hexachlorobutadiene	<0.017	<0.020	<0.0086	<0.02	<0.02
Hexachlorocyclopentadiene	<1.4	<0.100	<0.043	**0.1**	<0.10
Hexachloroethane	<0.29	<0.020	<0.0086	<0.02	<0.02
Indeno(123-cd)pyrene	**0.22**	**0.22**	**0.0036**	**0.18**	<0.02
Isophorone	<0.29	<0.020	<0.0086	<0.02	<0.02
Naphthalene	<0.29	**0.06**	**0.01**	**0.05**	<0.02
Nitrobenzene	<0.29	<0.020	<0.0086	<0.02	<0.02
N-Nitrosodimethylamine	<0.29	-----	<0.0043	-----	-----
N-Nitroso-di-n-propylamine	<1.4	<0.040	<0.0086	<0.04	<0.04
N-Nitrosodiphenylamine	<0.29	<0.040	<0.0086	<0.04	<0.04
Pentachlorophenol	<1.4	**0.1**	**0.014**	**0.3**	**<0.10**
Phenanthrene	**0.33**	**0.36**	**0.031**	**0.32**	**<0.02**
Phenol	<0.29	**0.04**	**0.024**	**0.05**	<0.02
Pyrene	**0.98**	**0.87**	**0.13**	**1.4**	**0.03**
Pesticides/PCBs					
2,4'-DDD	<0.034	-----	<0.014	-----	-----
2,4'-DDE	<0.034	-----	**0.0028**	-----	-----
2,4'-DDT	<0.46	-----	**0.0055**	-----	-----

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	LDW SS84	DR139	B5a-2	DR157	DR138
Date	Jan-05	Sep-98	Sep-04	Aug-98	Aug-98
Source	(c)	(e)	(g)	(e)	(e)
Coordinate X	1269997	1270186	1270183	1270346	1270354
Coordinate Y	200324	200341	200299	200349	200326
Depth (cm)	<15	<15	<15	<15	<15
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
4,4'-DDD	<0.54	**0.033**	**0.022**	-----	-----
4,4'-DDE	<0.80	**0.14**	**0.031**	-----	-----
4,4'-DDT	<0.034	<0.011	**0.016**	-----	-----
Aldrin	<0.017	<0.010	<0.001	-----	-----
alpha-BHC	<0.017	<0.010	<0.001	-----	-----
alpha-Chlordane	<0.017	<0.010	**0.0016**	-----	-----
alpha-Endosulfan	<0.017	<0.010	<0.001	-----	-----
beta-BHC	<0.017	<0.010	<0.0011	-----	-----
beta-Endosulfan	<0.034	<0.010	**0.01**	-----	-----
delta-BHC	<0.017	-----	<0.0015	-----	-----
Chlordane	-----	-----	-----	-----	-----
Cis-Nonachlor	<0.33	-----	-----	-----	-----
Dieldrin	<0.034	0.017	<0.001	-----	-----
Endosulfan sulfate	<0.034	<0.010	<0.001	-----	-----
Endrin	<0.034	<0.010	0.0015	-----	-----
Endrin aldehyde	<0.25	<0.050	<0.0047	-----	-----
Endrin ketone	<0.034	<0.010	**0.006**	-----	-----
gamma-BHC	<0.017	<0.010	**0.0013**	-----	-----
gamma-chlordane	<0.017	<0.011	**0.016**	-----	-----
Heptachlor	<0.070	<0.010	<0.001	-----	-----
Heptachlor epoxide	<0.510	<0.011	<0.0062	-----	-----
Lindane	-----	-----	-----	-----	-----
Methoxychlor	<0.170	<0.010	<0.0031	-----	-----
Mirex	<0.034	-----	<0.001	-----	-----
Oxychlordane	<0.034	-----	-----	-----	-----
Toxaphene	<1.7	<0.10	<0.054	-----	-----
Trans-Nonachlor	<0.034	-----	-----	-----	-----
PCB 1016	<0.69	<0.020	<0.010	<0.02	<0.02
PCB 1221	<0.69	<0.040	<0.020	<0.04	<0.02
PCB 1232	<0.69	<0.020	<0.010	<0.02	<0.02
PCB 1242	<0.69	**0.61**	<0.010	**2.4**	0.092
PCB 1248	**12**	<0.020	0.60	<0.02	<0.02
PCB 1254	**6.8**	**1.1**	**0.63**	**1.3**	**0.063**
PCB 1260	**4.3**	**1.2**	**0.50**	**0.98**	**0.032**
Total PCBs	**23.1**	**2.91**	**1.73**	**4.68**	**0.187**
Dioxin/Furans (ng/kg)					
1,2.3,4,6,7,8-HpCDD	**11400**	-----	-----	-----	-----
1,2.3,4,6,7,8-HpCDF	**2360**	-----	-----	-----	-----
1,2.3,4,7,8,9-HpCDF	**147**	-----	-----	-----	-----
1,2.3,4,7,8-HxCDD	**66.7**	-----	-----	-----	-----
1,2.3,4,7,8-HxCDF	**382**	-----	-----	-----	-----
1,2.3,6,7,8-HxCDD	**401**	-----	-----	-----	-----
1,2.3,6,7,8-HxCDF	**85.8**	-----	-----	-----	-----
1,2.3,7,8,9-HxCDD	**308**	-----	-----	-----	-----
1,2.3,7,8,9-HxCDF	**5.74**	-----	-----	-----	-----
1,2.3,7,8-PeCDD	**57.1**	-----	-----	-----	-----
1,2.3,7,8-PeCDF	**16.5**	-----	-----	-----	-----
2,3,4,6,7,8-HxCDF	**50.9**	-----	-----	-----	-----
2,3,4,7,8-PeCDF	**56**	-----	-----	-----	-----
2,3,7,8-TCDD	**30.6**	-----	-----	-----	-----
2,3,7,8-TCDF	**46.6**	-----	-----	-----	-----
OCDD	**103000**	-----	-----	-----	-----
OCDF	**7320**	-----	-----	-----	-----
TEQ (h)	**412**	-----	-----	-----	-----

TABLE F.1 - Results of Surface Sediment Sample Analyses - 1991 to 2007

Location	LDW SS84	DR139	B5a-2	DR157	DR138
Date	**Jan-05**	**Sep-98**	**Sep-04**	**Aug-98**	**Aug-98**
Source	(c)	(e)	(g)	(e)	(e)
Coordinate X	1269997	1270186	1270183	1270346	1270354
Coordinate Y	200324	200341	200299	200349	200326
Depth (cm)	<15	<15	<15	<15	<15
Units	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**
Other Compounds					
Dibutyltin as ion	-----	-----	**0.01**	-----	-----
Monobutlytin as ion	-----	-----	**0.0052**	-----	-----
Tetrabutyltin as ion	-----	-----	<0.0016	-----	-----
Tributyltin as ion	-----	-----	**0.0064**	-----	-----

Notes: nd - Not detected
TR - Trace
(a) - SAIC Feb. 2007
(b) - SAIC July 2007
(c) - LDW Round 1 RI
(d) - Outfall sediment
(e) - EPA SI
(f) - LDW RI

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Collection Date	Comments	ARI Delivery Group	% solids %	Specific gravity SU	Wet density lb/ft^3	Moisture content %	Dry density lb/ft^3	TOC %	Antimony mg/kg, dry	Arsenic mg/kg, dry
Screening Levels										na	7
ICS-DSS-01-SE	12/10/12		VW14	77	-----	-----	-----	-----	2.65	**0.5 J_R**	**61.1**
ICS-DSS-02-SE	7/3/12		VB16	76	-----	137.1	17.0	117.2	3.24	0.2 U	**10.0**
ICS-DSS-03-SE	7/3/12		VB16	49	-----	-----	-----	-----	3.45	0.4 U	**17.2**
ICS-DSS-04-SE	7/3/12		VB16	64	2.60	103.6	55.1	66.8	2.83	**0.7 J_R**	**13.2**
ICS-DUP-02-SE	7/3/12	field dup of 04	VB16	61	-----	-----	-----	-----	7.86	**1.2 J_R**	**17.6**
ICS-DSS-05-SE	7/3/12		VB16	65	-----	-----	-----	-----	2.62	**0.5 J_R**	**28.8**
ICS-DSS-06-SE	7/3/12		VB16	62	-----	-----	-----	-----	5.55	**0.5 J_R**	**7.1**
ICS-DSS-07-SE	7/3/12		VB16	76	-----	-----	-----	-----	3.34	0.3 U	**10.6**
ICS-DSS-08-SE	7/3/12		VB16	76	-----	106.4	11.3	95.6	2.92	**0.3 J_R**	**13.9**
ICS-DSS-09-SE	7/3/12		VB16	71	-----	-----	-----	-----	18.1	**1.9 J_R**	**13.0**
ICS-DSS-10-SE	7/3/12		VB16	79	-----	-----	-----	-----	0.553	0.3 U	**4.2**
ICS-DSS-11-SE	7/3/12		VB16	69	-----	-----	-----	-----	2.73	**0.3 J_R**	**8.1**
ICS-DSS-12-SE	7/3/12		VB16	69	-----	-----	-----	-----	30.9	**2.2 J_R**	**8.3**
ICS-DSS-13-SE	7/3/12		VB16	77	-----	-----	-----	-----	1.85	0.2 U	**3.4**
ICS-DUP-01-SE	7/3/12	field dup of 13	VB16	79	-----	-----	-----	-----	1.55	0.2 U	**3.3**
ICS-DSS-14-SE	7/2/12		VB00	62	-----	-----	-----	-----	4.96	**0.5 J_R**	**23.2**
ICS-DSS-15-SE	7/3/12		VB16	59	-----	-----	-----	-----	4.25	0.3 U	**19.1**
ICS-DSS-16-SE	7/2/12		VB00	83	-----	-----	-----	-----	1.05	0.2 U	**14.9**
ICS-DSS-17-SE	7/2/12		VB00	74	2.69	111.7	30.8	85.4	2.32	0.3 U	**8.3**
ICS-DSS-18-SE	7/2/12		VB00	70	-----	-----	-----	-----	2.66	0.3 U	**21.0**
ICS-DSS-19-SE	7/2/12		VB00	48	2.61	88.8	105.7	43.2	2.93	**0.8 J_R**	**16.4**
ICS-DSS-20-SE	7/2/12		VB00	65	-----	-----	-----	-----	1.54	0.3 U	**12.1**
ICS-DSS-21-SE	7/2/12		VB00	53	-----	-----	-----	-----	1.92	0.4 U	**10.4**
ICS-DSS-22-SE	7/2/12		VB00	68	-----	-----	-----	-----	1.22	0.3 U	**7.0**
ICS-DSS-23-SE	7/2/12		VB00	82	-----	-----	-----	-----	1.42	0.2 U	**3.1**
ICS-DSS-24-SE	7/3/12		VB16	45	-----	-----	-----	-----	2.64	0.4 U	**11.1**
ICS-DSS-25-SE	7/3/12		VB16	44	-----	-----	-----	-----	3.48	0.4 U	**9.7**
ICS-DSS-26-SE	7/2/12		VB00	70	-----	-----	-----	-----	2.63	**0.6 J_R**	**12.6**
ICS-DDS26-SE	9/19/14		ZA94	68	-----	-----	-----	-----	-----	-----	20 U
ICS-DSS-27-SE	7/2/12		VB00	69	-----	-----	-----	-----	2.92	0.3 U	**17.1**
ICS-DSS-28-SE	7/2/12		VB00	64	-----	-----	-----	-----	2.24	0.3 U	**14.5**
ICS-DSS-29-SE	7/2/12		VB00	78	-----	-----	-----	-----	1.93	0.2 U	**8.9**
ICS-DSS-30-SE	7/2/12		VB00	80	2.73	102.5	21.6	84.3	0.442	0.2 U	**5.4**
ICS-DSS-31-SE	7/3/12		VB16	61	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Collection Date	Comments	ARI Delivery Group	% solids %	Specific gravity SU	Wet density lb/ft^3	Moisture content %	Dry density lb/ft^3	TOC %	Antimony mg/kg, dry	Arsenic mg/kg, dry
Screening Levels										na	7
ICS-DSS-32-SE	7/3/12		VB16	35	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	9/19/14		ZA94	48	-----	-----	-----	-----	-----	-----	30 U
ICS-SED2	9/19/14		ZA94	53	-----	-----	-----	-----	-----	-----	**30**
ICS-SED4	9/19/14		ZA94	73	-----	-----	-----	-----	-----	-----	6 U
ICS-LDWSS84	9/19/14		ZA94	54	-----	-----	-----	-----	-----	-----	9 U
ICS-B5a2	9/19/14		ZA94	62	-----	-----	-----	-----	-----	-----	8 U

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

ICS/NW Cooperage Site
Seattle, WA

Sample Location	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	Total Petroleum Hydrocarbons		
										Diesel-range mg/kg, dry	Lube-range mg/kg, dry	Total mg/kg,dry
Screening Levels	na	5.1	260	390	450	0.41	na	6.1	410	-----	-----	2000
ICS-DSS-01-SE	0.02 U	**0.3**	**35.2**	**96.3**	**69.8**	**0.17**	**35.8**	0.2 U	**125**	84	**550**	**634**
ICS-DSS-02-SE	0.2 U	**0.2**	**26.4**	**88.3**	**35.5**	**0.12**	**32.1**	0.2 U	**98**	52	**280**	**332**
ICS-DSS-03-SE	0.4 U	**0.6**	**37**	**90**	**92.3**	**0.45**	**27**	0.4 U	**289**	120	**440**	**560**
ICS-DSS-04-SE	0.3 U	**5.3**	**167**	**217**	**1250**	**2.42**	**27.7**	**0.3**	**1270**	**1400**	**3000**	**4400**
ICS-DUP-02-SE	0.3 U	**7.4**	**298**	**224**	**2190**	**2.20**	**32.8**	**0.5**	**1590**	**1400**	**2600**	**4000**
ICS-DSS-05-SE	0.3 U	**0.7**	**84.6**	**144**	**150**	**0.28**	**41.3**	0.3 U	**190**	76	**240**	**316**
ICS-DSS-06-SE	0.3 U	**2.6**	**612**	**115**	**633**	**7.7**	**25.9**	**1.3**	**400**	570	**1600**	**2170**
ICS-DSS-07-SE	0.3 U	**0.2**	**24.0**	**36.1**	**75.6**	**0.25**	**26.6**	0.3 U	**141**	17	**83**	**100**
ICS-DSS-08-SE	0.3 U	**0.9**	**70.5**	**91.1**	**201**	**3.8**	**26.7**	**0.3**	**195**	200	**620**	**820**
ICS-DSS-09-SE	0.3 U	**8.2**	**288**	**260**	**5920**	**14.3**	**39.1**	**1.3**	**1220**	**6700**	**15,000**	**21700**
ICS-DSS-10-SE	0.3 U	**0.3**	**28.4**	**24.5**	**59.0**	**0.21**	**25.2**	0.3 U	**74**	14	**56**	**70**
ICS-DSS-11-SE	0.3 U	**1.0**	**90.6**	**67.1**	**626**	**0.71**	**31.8**	0.3 U	**281**	56	**220**	**276**
ICS-DSS-12-SE	0.3 U	**4.3**	**1110**	**115**	**3930**	**0.16**	**151**	**0.4**	**3820**	**12,000**	**42,000**	**54000**
ICS-DSS-13-SE	**0.3**	**0.2**	**25.0**	**24.8**	**42.1**	**0.12**	**25.3**	0.2 U	**52**	43	**90**	**133**
ICS-DUP-01-SE	**0.3**	**0.1**	**20.1**	**22.5**	**48.3**	**0.11**	**21.6**	0.2 U	**55**	40	**67**	**107**
ICS-DSS-14-SE	0.3 U	**0.5**	**36.1**	**70.8**	**201**	**0.17**	**34.9**	0.3 U	**188**	24	**130**	**154**
ICS-DSS-15-SE	**0.4**	**0.4**	**23.2**	**49.4**	**55.5**	**0.21**	**20.5**	0.3 U	**168**	68	**280**	**348**
ICS-DSS-16-SE	0.2 U	**0.1**	**15.3**	**24.6**	**18.0**	**0.03**	**23.5**	0.2 U	**66**	8.5	**35**	**43.5**
ICS-DSS-17-SE	**0.3**	0.1 U	**32**	**40.3**	**44.4**	**0.15**	**28.7**	0.3 U	**75**	24	**100**	**124**
ICS-DSS-18-SE	0.3 U	**0.3**	**21.2**	**46.8**	**55.5**	**0.20**	**24.7**	0.3 U	**150**	18	**83**	**101**
ICS-DSS-19-SE	0.4 U	**1.3**	**65**	**103**	**343**	**1.73**	**26**	**1.2**	**318**	240	**710**	**950**
ICS-DSS-20-SE	**0.4**	**0.2**	**26**	**37.4**	**42.3**	**0.18**	**18.0**	0.3 U	**109**	28	**88**	**116**
ICS-DSS-21-SE	0.4 U	**0.4**	**29**	**54.4**	**55.9**	**0.54**	**20.5**	0.4 U	**146**	49	**150**	**199**
ICS-DSS-22-SE	**0.4**	**0.3**	**21**	**33.4**	**22.3**	**0.17**	**18.2**	**0.3**	**81**	58	**170**	**228**
ICS-DSS-23-SE	0.2 U	**0.2**	**24.3**	**38.9**	**29.5**	**0.08**	**26.9**	0.2 U	**58**	**34**	**95**	**129**
ICS-DSS-24-SE	**0.5**	0.2 U	**27**	**53**	**59.7**	**0.22**	**19**	0.4 U	**117**	52	**180**	**232**
ICS-DSS-25-SE	0.4 U	**0.4**	**28**	**58**	**50.4**	**0.34**	**22**	0.4 U	**130**	77	**230**	**307**
ICS-DSS-26-SE	0.3 U	**1.6**	**268**	**182**	**1690**	**0.83**	**70.8**	**0.4**	**1340**	54	**180**	**234**
ICS-DDS26-SE	-----	**0.90**	**151**	-----	**665**	**0.47**	-----	1 U	-----	-----	-----	-----
ICS-DSS-27-SE	0.3 U	**0.6**	**39.6**	**120**	**683**	**0.92**	**26.5**	**0.5**	**242**	150	**520**	**670**
ICS-DSS-28-SE	**0.5**	**0.6**	**33**	**55.5**	**47.5**	**0.34**	**25.7**	**0.60**	**121**	170	**570**	**740**
ICS-DSS-29-SE	0.2 U	**0.3**	**15.7**	**30.3**	**74.1**	**0.05**	**17.7**	0.2 U	**100**	11	**120**	**131**
ICS-DSS-30-SE	0.2 U	0.1 U	**13.2**	**17.4**	**16.3**	**0.06**	**10.5**	0.2 U	**62**	6.3 U	**14**	**14**
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	Total Petroleum Hydrocarbons		
										Diesel-range mg/kg, dry	Lube-range mg/kg, dry	Total mg/kg,dry
Screening Levels	na	5.1	260	390	450	0.41	na	6.1	410	-----	-----	2000
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	**47**	**2940**	-----	**6330**	**61**	-----	**5**	-----	-----	-----	-----
ICS-SED2	-----	**3.7**	**465**	-----	**4080**	**9.0**	-----	1 U	-----	-----	-----	-----
ICS-SED4	-----	0.3 U	**17.7**	-----	**30**	**0.06**	-----	0.4 U	-----	-----	-----	-----
ICS-LDWSS84	-----	**1.0**	**60.7**	-----	**226**	**0.78**	-----	0.5 U	-----	-----	-----	-----
ICS-B5a2	-----	**0.60**	**55.5**	-----	**136**	**0.18**	-----	0.5 U	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitroso-di-N-propylamine µg/kg, dry
Screening Levels	420	na	na	(a)	57	(a)	63	670	na
ICS-DSS-01-SE	**35 J**	58 U	14 U	14 U	58 U	14 U	14 U	**70 J**	58 U
ICS-DSS-02-SE	55 U	55 U	14 U	14 U	55 U	14 U	14 U	110 U	55 U
ICS-DSS-03-SE	**28**	19 U	4.8 U	**4.1 J**	**62**	4.8 U	**4.6 J**	**13 J**	19 U
ICS-DSS-04-SE	83 U	83 U	21 U	21 U	83 U	21 U	21 U	**79 J**	83 U
ICS-DUP-02-SE	**50 J**	84 U	21 U	21 U	**34 J**	21 U	**12 J**	**46 J**	84 U
ICS-DSS-05-SE	**18 J**	20 U	5.0 U	**4.4 J**	**29**	5.0 U	5.0 U	**14 J**	20 U
ICS-DSS-06-SE	**88**	20 U	5.0 U	**3.4 J**	**25**	**6.3**	**16**	**32 J**	20 U
ICS-DSS-07-SE	19 U	19 U	4.7 U	4.7 U	**9.0 J**	**3.4 J**	4.7 U	37 U	19 U
ICS-DSS-08-SE	**55**	19 U	4.8 U	**12**	**12 J**	**13**	**4.9**	**14 J**	19 U
ICS-DSS-09-SE	**650 J**	720 U	**900**	**7600**	**640 J**	**12,000**	**620**	**1900**	720 U
ICS-DSS-10-SE	18 U	18 U	4.6 U	4.6 U	**7.1 J**	4.6 U	4.6 U	37 U	18 U
ICS-DSS-11-SE	**66**	19 U	4.8 U	**4.8**	**18 J**	**9.4**	**12**	**42**	19 U
ICS-DSS-12-SE	**5700**	1700 U	440 U	440 U	**20,000**	**1000**	440 U	3500 U	**14,000**
ICS-DSS-13-SE	**14 J**	19 U	**2.4 J**	**3.9 J**	**7.3 J**	**4.1 J**	4.7 U	38 U	19 U
ICS-DUP-01-SE	**14 J**	19 U	4.8 U	**2.5 J**	**8.8 J**	4.8 U	4.8 U	38 U	19 U
ICS-DSS-14-SE	**31 J_Q**	20 U	4.9 U	4.9 U	**40**	4.9 U	**2.8 J**	39 U	20 U
ICS-DSS-15-SE	**28**	20 U	5.0 U	**4.3 J**	**30**	**4.3 J**	**3.8 J**	**27 J**	20 U
ICS-DSS-16-SE	19 U	19 U	4.8 U	4.8 U	**8.5 J**	4.8 U	4.8 U	39 U	19 U
ICS-DSS-17-SE	**16 J**	18 U	4.6 U	4.6 U	**7.4 J**	4.6 U	**21**	**12 J**	18 U
ICS-DSS-18-SE	**12 J**	19 U	4.7 U	4.7 U	**21**	4.7 U	4.7 U	38 U	19 U
ICS-DSS-19-SE	**140 J_Q**	20 U	**12**	**30**	**110**	**17**	**22**	**90**	20 U
ICS-DSS-20-SE	**44 J_Q**	19 U	4.7 U	4.7 U	**52**	4.7 U	4.7 U	**11 J**	19 U
ICS-DSS-21-SE	**67 J_Q**	19 U	**2.5 J**	**8.1**	**200**	**3.0 J**	**18**	**29 J**	19 U
ICS-DSS-22-SE	**11 J**	19 U	4.8 U	**4.6 J**	**9.6 J**	4.8 U	4.8 U	38 U	19 U
ICS-DSS-23-SE	20 U	20 U	4.9 U	4.9 U	**8.2 J**	4.9 U	4.9 U	39 U	20 U
ICS-DSS-24-SE	19 U	19 U	4.8 U	**3.5 J**	**84**	4.8 U	**3.5 J**	**14 J**	19 U
ICS-DSS-25-SE	**32**	20 U	4.9 U	**5.4**	**170**	**3.8 J**	4.9 U	**18 J**	20 U
ICS-DSS-26-SE	**190 J_Q**	18 U	4.6 U	**8.5**	**33**	**16**	**43**	**71**	18 U
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	**35 J_Q**	18 U	4.6 U	**4.4 J**	**19**	**3.6 J**	**6.6**	**17 J**	18 U
ICS-DSS-28-SE	**28 J_Q**	19 U	**5.6**	**5.8**	**51**	**2.4 J**	4.7 U	**17 J**	19 U
ICS-DSS-29-SE	18 U	18 U	4.6 U	4.6 U	**7.3 J**	4.6 U	4.6 U	37 U	18 U
ICS-DSS-30-SE	19 U	19 U	4.8 U	4.8 U	**10 J**	4.8 U	4.8 U	38 U	19 U
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitroso-di-N-propylamine µg/kg, dry
Screening Levels	420	na	na	(a)	57	(a)	63	670	na
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry
Screening Levels	na	na	na	29	650	na	(a)	(a)	na
ICS-DSS-01-SE	58 U	58 U	58 U	**29 J**	1200 U	580 U	14 U	**52 J**	290 U
ICS-DSS-02-SE	55 U	55 U	55 U	55 U	1100 U	550 U	14 U	55 U	270 U
ICS-DSS-03-SE	19 U	19 U	19 U	**4.8 J**	**160 J**	190 U	19 U	**18 J**	97 U
ICS-DSS-04-SE	83 U	83 U	**50 J**	**50 J**	1700 U	830 U	**15 J**	**79 J**	420 U
ICS-DUP-02-SE	84 U	84 U	**50 J**	**34 J**	**940 J**	840 U	**20 J**	**96**	420 U
ICS-DSS-05-SE	20 U	20 U	20 U	20 U	400 U	200 U	5.0 U	20 U	99 U
ICS-DSS-06-SE	20 U	20 U	20 U	**11 J**	**250 J**	200 U	**6.8**	**43**	99 U
ICS-DSS-07-SE	19 U	19 U	19 U	19 U	370 U	190 U	4.7 U	19 U	93 U
ICS-DSS-08-SE	19 U	19 U	19 U	**4.8 J**	**210 J**	190 U	**3.6 J**	**47**	96 U
ICS-DSS-09-SE	720 U	720 U	1400 U	**830**	14,000 U	**1100 J**	**1400**	**12,000**	3600 U
ICS-DSS-10-SE	18 U	18 U	18 U	18 U	370 U	180 U	4.6 U	**62**	92 U
ICS-DSS-11-SE	19 U	19 U	**14 J**	**14 J**	**330 J**	190 U	**15**	**130**	96 U
ICS-DSS-12-SE	1700 U	1700 U	1700 U	**4400**	35,000 U	17,000 U	440 U	**120,000**	8700 U
ICS-DSS-13-SE	19 U	19 U	19 U	19 U	380 U	190 U	**12**	**110**	94 U
ICS-DUP-01-SE	19 U	19 U	19 U	19 U	380 U	190 U	**8.4**	**82**	96 U
ICS-DSS-14-SE	20 U	20 U	20 U	20 U	**230 J**	200 U	4.9 U	**20**	97 U
ICS-DSS-15-SE	20 U	20 U	20 U	**3.2 J**	**120 J**	200 U	5.0 U	**15 J**	99 U
ICS-DSS-16-SE	19 U	19 U	19 U	19 U	390 U	190 U	4.8 U	19 U	97 U
ICS-DSS-17-SE	18 U	18 U	18 U	**3.4 J**	370 U	180 U	4.6 U	**130**	92 U
ICS-DSS-18-SE	19 U	19 U	19 U	19 U	380 U	190 U	4.7 U	19 U	94 U
ICS-DSS-19-SE	20 U	20 U	**22**	**20 J**	**380 J**	200 U	**22**	**92**	98 U
ICS-DSS-20-SE	19 U	19 U	19 U	**3.0 J**	**1200**	190 U	4.7 U	**18 J**	93 U
ICS-DSS-21-SE	19 U	19 U	19 U	**8.9 J**	**360 J**	190 U	**2.9 J**	**41**	94 U
ICS-DSS-22-SE	19 U	19 U	19 U	**3.0 J**	380 U	190 U	4.8 U	**64**	96 U
ICS-DSS-23-SE	20 U	20 U	20 U	20 U	390 U	200 U	**4.6 J**	**110**	98 U
ICS-DSS-24-SE	19 U	19 U	19 U	**3.0 J**	**190 J**	190 U	4.8 U	**20**	97 U
ICS-DSS-25-SE	20 U	20 U	20 U	**3.1 J**	**250 J**	200 U	**3.0 J**	**20**	99 U
ICS-DSS-26-SE	18 U	18 U	**500**	**13 J**	**610**	**20 J**	**36**	**180**	93 U
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	18 U	18 U	**21**	**5.7 J**	**220 J**	180 U	**7.0**	**78**	92 U
ICS-DSS-28-SE	19 U	19 U	19 U	**3.7 J**	**120 J**	190 U	**3.6 J**	**21**	94 U
ICS-DSS-29-SE	18 U	18 U	18 U	18 U	370 U	180 U	4.6 U	18 U	92 U
ICS-DSS-30-SE	19 U	19 U	19 U	19 U	380 U	190 U	4.8 U	19 U	96 U
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry
Screening Levels	na	na	na	29	650	na	(a)	(a)	na
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzo-furan µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry
Screening Levels	(a)	na	na	na	(a)	(a)	(a)	(a)	na
ICS-DSS-01-SE	**38 J**	290 U	290 U	58 U	58 U	58 U	**260**	**67**	290 U
ICS-DSS-02-SE	55 U	270 U	270 U	55 U	55 U	55 U	**100**	**30 J**	270 U
ICS-DSS-03-SE	**16 J**	97 U	97 U	19 U	19 U	**31**	**22**	**18 J**	97 U
ICS-DSS-04-SE	**75 J**	420 U	420 U	83 U	**180**	**58 J**	83 U	83 U	420 U
ICS-DUP-02-SE	**100**	420 U	420 U	84 U	**67 J**	**50 J**	84 U	84 U	420 U
ICS-DSS-05-SE	20 U	99 U	99 U	20 U	**11 J**	**23**	20 U	20 U	99 U
ICS-DSS-06-SE	**80**	99 U	99 U	20 U	**54**	**11 J**	20 U	20 U	99 U
ICS-DSS-07-SE	19 U	93 U	93 U	19 U	19 U	19 U	19 U	19 U	93 U
ICS-DSS-08-SE	**52**	96 U	96 U	19 U	**500**	**12 J**	19 U	**12 J**	96 U
ICS-DSS-09-SE	**13,000**	3600 U	3600 U	720 U	720 U	**650 J**	**4600**	**3800**	3600 U
ICS-DSS-10-SE	**12 J**	92 U	92 U	18 U	18 U	18 U	18 U	18 U	92 U
ICS-DSS-11-SE	**100**	96 U	96 U	19 U	**60**	19 U	19 U	**60**	96 U
ICS-DSS-12-SE	**50,000**	8700 U	8700 U	1700 U	1700 U	**8700**	**39,000**	**26,000**	8700 U
ICS-DSS-13-SE	**62**	94 U	94 U	19 U	19 U	**17 J**	**13 J**	**30**	94 U
ICS-DUP-01-SE	**45**	96 U	96 U	19 U	19 U	**11 J**	19 U	**21**	96 U
ICS-DSS-14-SE	**18 J**	97 U	97 U	20 U	**9.7 J**	**11 J**	20 U	20 U	97 U
ICS-DSS-15-SE	**15 J**	99 U	99 U	20 U	20 U	20 U	20 U	20 U	99 U
ICS-DSS-16-SE	19 U	97 U	97 U	19 U	19 U	19 U	19 U	19 U	97 U
ICS-DSS-17-SE	**35**	92 U	92 U	18 U	**12 J**	**11 J**	18 U	**34**	92 U
ICS-DSS-18-SE	19 U	94 U	94 U	19 U	19 U	19 U	19 U	19 U	94 U
ICS-DSS-19-SE	**120**	98 U	98 U	20 U	**68**	**25**	**49**	**33**	98 U
ICS-DSS-20-SE	**17 J**	93 U	93 U	19 U	**2900**	**10 J**	19 U	**15 J**	93 U
ICS-DSS-21-SE	**35**	94 U	94 U	19 U	**20**	**15 J**	**44**	**24**	94 U
ICS-DSS-22-SE	**21**	96 U	96 U	19 U	19 U	**12 J**	**31**	**20**	96 U
ICS-DSS-23-SE	**36**	98 U	98 U	20 U	**9.8 J**	20 U	**190**	**220**	98 U
ICS-DSS-24-SE	**14 J**	97 U	97 U	19 U	19 U	**13 J**	**9.7 J**	**14 J**	97 U
ICS-DSS-25-SE	**15 J**	99 U	99 U	20 U	20 U	20 U	20 U	**11 J**	99 U
ICS-DSS-26-SE	**150**	93 U	93 U	18 U	**82**	**12 J**	**36**	**52**	93 U
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	**68**	92 U	**20 J**	18 U	**100**	**54**	**10 J**	**27**	92 U
ICS-DSS-28-SE	**21**	94 U	94 U	19 U	19 U	19 U	19 U	**14 J**	94 U
ICS-DSS-29-SE	18 U	92 U	92 U	18 U	18 U	18 U	18 U	18 U	92 U
ICS-DSS-30-SE	19 U	96 U	96 U	19 U	19 U	19 U	19 U	19 U	96 U
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzo-furan µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry
Screening Levels	(a)	na	na	na	(a)	(a)	(a)	(a)	na
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry
Screening Levels	na	(a)	na	(a)	(a)	360	(a)	na	(a)
ICS-DSS-01-SE	290 U	140 U	58 U	**220**	58 U	**150 J_Q**	**3700**	**470**	**720**
ICS-DSS-02-SE	270 U	140 U	55 U	**66**	55 U	140 U	**710**	**52 J**	**180**
ICS-DSS-03-SE	97 U	48 U	19 U	**23**	19 U	**56**	**270**	**70**	**85**
ICS-DSS-04-SE	420 U	210 U	83 U	83 U	**32 J**	**360**	**460**	83 U	**71 J**
ICS-DUP-02-SE	420 U	210 U	84 U	84 U	**38 J**	**400**	**160**	84 U	**50 J**
ICS-DSS-05-SE	99 U	50 U	20 U	**12 J**	**3.5 J**	**22 J**	**390**	**32**	**29**
ICS-DSS-06-SE	99 U	50 U	20 U	20 U	**14 J**	**820**	**74**	20 U	**25**
ICS-DSS-07-SE	93 U	47 U	19 U	19 U	19 U	**25 J**	**29**	19 U	19 U
ICS-DSS-08-SE	96 U	48 U	19 U	**10 J**	**9.1 J**	**920**	**110**	**19**	**33**
ICS-DSS-09-SE	3600 U	1800 U	720 U	**6200**	**4000**	**6500 J**	**14,000**	**4500**	**16,000**
ICS-DSS-10-SE	92 U	46 U	18 U	18 U	18 U	**48 J_Q**	**28**	18 U	18 U
ICS-DSS-11-SE	96 U	48 U	19 U	**14 J**	**14 J**	**290**	**200**	**15 J**	**36**
ICS-DSS-12-SE	8700 U	4400 U	1700 U	**58,000**	**4800**	**1000 J**	**380,000**	**48,000**	**78,000**
ICS-DSS-13-SE	94 U	47 U	19 U	**25**	**11 J**	**45 J**	**180**	19 U	**40**
ICS-DUP-01-SE	96 U	48 U	19 U	**18 J**	**8.4 J**	**27 J**	**130**	19 U	**29**
ICS-DSS-14-SE	97 U	49 U	20 U	20 U	**3.5 J**	**21 J**	**60**	**16 J**	**18 J**
ICS-DSS-15-SE	99 U	50 U	20 U	20 U	**3.3 J**	**51**	**61**	**9.9 J**	**15 J**
ICS-DSS-16-SE	97 U	48 U	19 U	19 U	19 U	48 U	19 U	19 U	19 U
ICS-DSS-17-SE	92 U	46 U	18 U	18 U	**2.9 J**	**24 J**	**110**	**10 J**	**23**
ICS-DSS-18-SE	94 U	**39 J**	19 U	19 U	**3.4 J**	**15 J**	**24**	**22**	**11 J**
ICS-DSS-19-SE	98 U	**36 J**	20 U	**51**	20 U	**400**	**330**	**49**	**100**
ICS-DSS-20-SE	93 U	47 U	19 U	**16 J**	**3.1 J**	47 U	**100**	**20**	**33**
ICS-DSS-21-SE	94 U	47 U	19 U	**41**	19 U	**65 J**	**430**	**31**	**90**
ICS-DSS-22-SE	96 U	48 U	19 U	**18 J**	19 U	48 U	**110**	**11 J**	**28**
ICS-DSS-23-SE	98 U	49 U	20 U	**400**	20 U	49 U	**150**	**14 J**	**70**
ICS-DSS-24-SE	97 U	48 U	19 U	**16 J**	19 U	**18 J**	**230**	**20**	**35**
ICS-DSS-25-SE	99 U	49 U	20 U	**12 J**	**2.7 J**	**28 J**	**90**	**16 J**	**28**
ICS-DSS-26-SE	93 U	46 U	18 U	**40**	**42**	**400**	**380**	**50**	**68**
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	92 U	46 U	18 U	**12 J**	**7.8 J**	**140 J**	**170**	**29**	**62**
ICS-DSS-28-SE	94 U	47 U	19 U	**18 J**	**19**	47 U	**55**	19 U	**26**
ICS-DSS-29-SE	92 U	46 U	18 U	18 U	18 U	46 U	**18 J**	18 U	18 U
ICS-DSS-30-SE	96 U	48 U	19 U	19 U	19 U	48 U	**18 J**	19 U	19 U
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry
Screening Levels	na	(a)	na	(a)	(a)	360	(a)	na	(a)
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry
Screening Levels	(a)	(a)	(a)	(a)	(b)	(a)	(b)	(a)	(b)
ICS-DSS-01-SE	58 U	**5100**	**5400**	**13 J**	**3500**	**520**	**3800**	58 U	**5000**
ICS-DSS-02-SE	55 U	**1100**	**1000**	55 U	**470**	**260**	**680**	55 U	**940**
ICS-DSS-03-SE	19 U	**1100**	**920**	**43 J_Q**	**340**	**620**	**770**	19 U	**850**
ICS-DSS-04-SE	**130**	**1100**	**710**	**230 J_Q**	**190**	**1300**	**410**	83 U	**470**
ICS-DUP-02-SE	**120**	**200**	**250**	84 U	**120**	**1200**	**180**	84 U	**290**
ICS-DSS-05-SE	20 U	**1100**	**770**	20 U	**110**	**320**	**310**	20 U	**360**
ICS-DSS-06-SE	**85**	**78**	**78**	20 U	**35**	**260**	**110**	20 U	**180**
ICS-DSS-07-SE	19 U	**49**	**41**	19 U	**20**	**36 B**	**36**	19 U	**52**
ICS-DSS-08-SE	**72**	**150**	**160**	19 U	**72**	**150**	**130**	19 U	**190**
ICS-DSS-09-SE	**3400**	**7000**	**6800**	**1100**	**2700**	**9600**	**5200**	720 U	**3300**
ICS-DSS-10-SE	**18 J**	**29**	**28**	18 U	**12 J**	**57**	**19**	18 U	**30 J**
ICS-DSS-11-SE	**43**	**160**	**150**	**58 J_Q**	**80**	**330**	**130**	19 U	**190**
ICS-DSS-12-SE	**44,000**	**390,000**	**290,000**	**44,000 J_Q**	**130,000**	**180,000**	**180,000**	1700 U	**120,000**
ICS-DSS-13-SE	19 U	**180**	**170**	19 U	**76**	**79**	**87**	19 U	**130**
ICS-DUP-01-SE	19 U	**130**	**120**	19 U	**60**	**63**	**77**	19 U	**100**
ICS-DSS-14-SE	20 U	**120**	**110**	**25 J_Q**	**47**	**83**	**100**	20 U	**140**
ICS-DSS-15-SE	20 U	**130**	**130**	**31 J_Q**	**53**	**300**	**98**	**40**	**140**
ICS-DSS-16-SE	19 U	**11 J**	**9.7 J**	19 U	19 U	**16 JB**	19 U	19 U	**14 J**
ICS-DSS-17-SE	18 U	**98**	**89**	**14 J**	**42**	**49**	**66**	18 U	**98**
ICS-DSS-18-SE	**22**	**63**	**66**	**16 J**	**34**	**79**	**67**	19 U	**140**
ICS-DSS-19-SE	**130**	**500**	**730**	**110 J_Q**	**260**	**1400**	**460**	20 U	**730**
ICS-DSS-20-SE	**320**	**290**	**280**	19 U	**160**	**98**	**370**	19 U	**300**
ICS-DSS-21-SE	**38**	**540**	**540**	**150 J_Q**	**200**	**320**	**340**	19 U	**410**
ICS-DSS-22-SE	19 U	**190**	**230**	**12 J**	**63**	**60**	**81**	19 U	**110**
ICS-DSS-23-SE	20 U	**510**	**350**	20 U	**71**	**84**	**92**	20 U	**110**
ICS-DSS-24-SE	19 U	**370**	**280**	**28 J_Q**	**96**	**300**	**190**	19 U	**230**
ICS-DSS-25-SE	**13 J**	**200**	**180**	**27 J_Q**	**100**	**270**	**160**	**27**	**240**
ICS-DSS-26-SE	**220**	**410**	**360**	**260 J_Q**	**170**	**550**	**240**	18 U	**420**
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	**31**	**410**	**400**	18 U	**250**	**180**	**360**	18 U	**580**
ICS-DSS-28-SE	**14 J**	**160**	**160**	19 U	**43**	**190**	**50**	19 U	**77**
ICS-DSS-29-SE	**10 J**	**41**	**41**	18 U	**18 J**	**26**	**45**	18 U	**54**
ICS-DSS-30-SE	19 U	**24**	**25**	19 U	19 U	**24**	**15 J**	19 U	**26 J**
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry
Screening Levels	(a)	(a)	(a)	(a)	(b)	(a)	(b)	(a)	(b)
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Benzo(a)-pyrene µg/kg, dry	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	Tributyltin ion µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Levels	90 (b)	(b)	(b)	(a)	(a)	(a)	na	na	na	na
ICS-DSS-01-SE	**3000**	**1200**	**510**	**1200**	4952	28,710	**-----**	4.9 U	4.9 U	6.9 U
ICS-DSS-02-SE	**440**	**270**	**140**	**300**	1056	5340	-----	0.47 U	3.8 U	0.47 U
ICS-DSS-03-SE	**260**	**140**	**70**	**140**	449	4590	-----	2.8 U	2.3 U	4.9 U
ICS-DSS-04-SE	**220**	**140**	**71 J**	**210**	668	3521	-----	3.8 U	30 U	3.8 U
ICS-DUP-02-SE	**180**	**120**	**71 J**	**190**	356	1601	-----	3.8 U	3.8 U	3.8 U
ICS-DSS-05-SE	**95**	**51**	**27**	**58**	454	2881	-----	0.48 U	4.6 U	9.5 U
ICS-DSS-06-SE	**150**	**61**	**17 J**	**83**	153	792	3.6 U	3.1 U	3.1 U	3.1 U
ICS-DSS-07-SE	**24**	**19**	**10 J**	**24**	29	275	-----	0.48 U	0.48 U	0.48 U
ICS-DSS-08-SE	**78**	**110**	**37**	**160**	212	1087	-----	1.6 U	1.6 U	1.6 U
ICS-DSS-09-SE	**1800**	**900**	**580 J**	**1100**	53,450	29,380	**150**	54 U	34 U	34 U
ICS-DSS-10-SE	**13 J**	**9.2 J**	18 U	**13 J**	90	153	-----	0.48 U	0.48 U	0.48 U
ICS-DSS-11-SE	**96**	**65**	**21**	**73**	380	965	-----	1.5 U	1.5 U	1.5 U
ICS-DSS-12-SE	**71,000**	**21,000**	**13,000**	**19,000**	683,700	1,234,000	-----	300 U	300 U	300 U
ICS-DSS-13-SE	**76**	**43**	**13 J**	**49**	385	824	-----	0.48 U	0.48 U	0.48 U
ICS-DUP-01-SE	**54**	**36**	**12 J**	**38**	270	627	-----	0.49 U	0.49 U	0.49 U
ICS-DSS-14-SE	**46**	**38**	**14 J**	**47**	109	662	-----	0.47 U	0.47 U	0.47 U
ICS-DSS-15-SE	**52**	**38**	**20**	**57**	91	718	-----	0.84 U	3.1 U	1.8 U
ICS-DSS-16-SE	19 U	19 U	19 U	19 U	19	35	-----	0.49 U	0.49 U	0.49 U
ICS-DSS-17-SE	**41**	18 U	18 U	**45**	274	479	-----	0.48 U	2.4 U	1.2 U
ICS-DSS-18-SE	**44**	**34**	19 U	**38**	35	486	-----	0.48 U	0.48 U	0.48 U
ICS-DSS-19-SE	**350**	**190**	**99**	**220**	647	3539	**16**	1.0 U	1.0 U	1.0 U
ICS-DSS-20-SE	**82**	**51**	**21**	**53**	177	1607	-----	0.49 U	0.49 U	0.49 U
ICS-DSS-21-SE	**180**	**110**	**53**	**140**	661	2513	-----	1.7 U	2.4 U	0.49 U
ICS-DSS-22-SE	**56**	**34**	**11 J**	**46**	263	821	-----	0.46 U	0.46 U	0.46 U
ICS-DSS-23-SE	**41**	**27**	20 U	**32**	920	1233	-----	0.48 U	0.48 U	0.48 U
ICS-DSS-24-SE	**94**	**50**	**26**	**50**	324	1386	**4.3**	0.49 U	1.2 U	3.4 U
ICS-DSS-25-SE	**100**	**58**	**20**	**70**	150	1128	-----	1.1 U	3.3 U	37 U
ICS-DSS-26-SE	**200**	**160**	**47**	**200**	716	2207	-----	4.8 U	4.8 U	0.48 U
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	**280**	**170**	**77**	**180**	386	2707	-----	2.5 U	1.1 U	4.4 U
ICS-DSS-28-SE	**28**	**18 J**	19 U	**23**	120	559	-----	0.48 U	0.48 U	0.48 U
ICS-DSS-29-SE	**19**	**17 J**	18 U	**25**	18	260	-----	0.46 U	0.46 U	0.46 U
ICS-DSS-30-SE	19 U	**10 J**	19 U	**10 J**	18	110	-----	0.49 U	0.49 U	0.49 U
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	**10**	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Benzo(a)-pyrene µg/kg, dry	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	Tributyltin ion µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Levels	90 (b)	(b)	(b)	(a)	(a)	(a)	na	na	na	na
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	**9.6**	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry	4,4'-DDD µg/kg, dry
Screening Levels	na	na	na	na	na	na	na	na	na	na
ICS-DSS-01-SE	4.9 U	4.9 U	4.9 U	9.9 U	4.9 U	9.9 U	**51 J_P**	9.9 U	9.9 U	9.9 U
ICS-DSS-02-SE	2.2 U	0.47 U	4.7 U	9.4 U	0.47 U	9.4 U	3.2 U	9.4 U	9.4 U	0.94 U
ICS-DSS-03-SE	4.5 U	4.6 U	0.49 U	23 U	0.49 U	17 U	**68**	9.7 U	9.7 U	0.97 U
ICS-DSS-04-SE	15 U	44 U	190 U	380 U	27 U	1200 U	**2000**	1600 U	380 U	**400 J_M**
ICS-DUP-02-SE	14 U	37 U	190 U	380 U	24 U	930 U	1400 U	380 U	380 U	380 U
ICS-DSS-05-SE	4.2 U	10 U	19 U	29 U	1.6 U	36 U	**130**	34 U	12 U	9.3 U
ICS-DSS-06-SE	3.1 U	8.8 U	31 U	180 U	11 U	460 U	**2000**	650 U	110 U	**400 J_M**
ICS-DSS-07-SE	0.48 U	0.48 U	0.80 U	3.8 U	0.48 U	9.5 U	9.5 U	9.5 U	9.5 U	5.5 U
ICS-DSS-08-SE	1.6 U	2.8 U	1.6 U	32 U	16 U	69 U	120 U	32 U	32 U	3.2 U
ICS-DSS-09-SE	680 U	2000 U	680 U	3200 U	200 U	1400 U	**5000 J_M**	68 U	1400 U	**1000 J_M**
ICS-DSS-10-SE	0.48 U	0.48 U	17 U	28 U	1.6 U	14 U	**400**	48 U	17 U	0.97 U
ICS-DSS-11-SE	1.5 U	1.5 U	7.5 U	15 U	3.3 U	26 U	180 U	100 U	15 U	15 U
ICS-DSS-12-SE	300 U	300 U	300 U	600 U	300 U	600 U	600 U	600 U	600 U	600 U
ICS-DSS-13-SE	0.48 U	0.48 U	3.0 U	15 U	0.48 U	8.1 U	22 U	21 U	6.4 U	6.9 U
ICS-DUP-01-SE	1.1 U	0.49 U	1.2 U	4.9 U	0.49 U	8.7 U	25 U	7.0 U	4.9 U	0.98 U
ICS-DSS-14-SE	0.47 U	0.47 U	0.47 U	0.93 U	0.47 U	7.2 U	**9.1**	9.3 U	0.93 U	**1.5**
ICS-DSS-15-SE	2.7 U	2.2 U	4.8 U	14 U	0.48 U	9.6 U	**37**	9.6 U	9.6 U	0.96 U
ICS-DSS-16-SE	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-DSS-17-SE	0.48 U	1.8 U	4.8 U	18 U	27 U	25 U	**110**	0.95 U	41 U	**20 J_M**
ICS-DSS-18-SE	0.48 U	0.48 U	1.5 U	3.3 U	0.48 U	5.6 U	**12**	9.6 U	2.2 U	**1.5**
ICS-DSS-19-SE	8.2 U	22 U	10 U	130 U	10 U	120 U	**380**	170 U	74 U	**60 J_M**
ICS-DSS-20-SE	0.49 U	0.49 U	1.6 U	3.1 U	0.49 U	4.8 U	**8.8**	8.7 U	0.98 U	**2.3**
ICS-DSS-21-SE	1.6 U	2.2 U	4.9 U	9.9 U	4.9 U	9.9 U	**41**	0.99 U	9.2 U	**16**
ICS-DSS-22-SE	0.46 U	1.6 U	0.46 U	9.2 U	4.6 U	9.2 U	**28**	0.92 U	9.2 U	**5.9**
ICS-DSS-23-SE	1.6 U	0.76 U	2.2 U	0.96 U	0.48 U	4.5 U	**5.4**	6.7 U	0.96 U	**2.2**
ICS-DSS-24-SE	1.4 U	2.5 U	4.9 U	9.8 U	4.9 U	9.8 U	60 U	9.8 U	9.8 U	0.98 U
ICS-DSS-25-SE	2.4 U	0.48 U	4.8 U	9.6 U	0.48 U	9.6 U	57 U	9.6 U	9.6 U	0.96 U
ICS-DSS-26-SE	4.8 U	3.5 U	4.8 U	9.7 U	0.48 U	32 U	**70**	0.97 U	58 U	**21**
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	5.7 U	0.70 U	7.0 U	69 U	7.0 U	120 U	**310**	160 U	100 U	**40 J_M**
ICS-DSS-28-SE	2.4 U	5.2 U	4.8 U	9.6 U	4.8 U	24 U	**40**	9.6 U	9.6 U	**39**
ICS-DSS-29-SE	0.46 U	0.46 U	0.46 U	0.93 U	0.46 U	0.93 U	**1.5**	0.93 U	0.93 U	0.93 U
ICS-DSS-30-SE	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	**1.3**	0.97 U	0.97 U	0.97 U
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry	4,4'-DDD µg/kg, dry
Screening Levels	na	na	na	na	na	na	na	na	na	na
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxychlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlordane µg/kg, dry	Toxaphene µg/kg, dry	Hexachloro-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry
Screening Levels	na	na	na	na	na	na	na	na	na	na
ICS-DSS-01-SE	9.9 U	12 U	49 U	9.9 U	9.9 U	4.9 U	4.9 U	990 U	9.9 U	9.9 U
ICS-DSS-02-SE	9.4 U	9.4 U	29 U	9.4 U	9.4 U	4.7 U	4.7 U	570 U	2.9 U	0.47 U
ICS-DSS-03-SE	11 U	**42**	34 U	9.7 U	14 U	16 U	2.0 U	740 U	4.2 U	0.86 U
ICS-DSS-04-SE	7.7 U	**2200 J_M**	1900 U	380 U	380 U	**140 J_M**	**100 J_M**	8400 U	17 U	3.8 U
ICS-DUP-02-SE	7.7 U	2200 U	1900 U	380 U	380 U	190 U	190 U	6300 U	15 U	3.8 U
ICS-DSS-05-SE	9.3 U	**50 J_M**	19 U	25 U	18 U	**5 J_M**	0.48 U	97 U	0.48 U	0.48 U
ICS-DSS-06-SE	6.2 U	**820 J_M**	310 U	62 U	330 U	**50 J_M**	**40 J_M**	2800 U	5.7 U	3.1 U
ICS-DSS-07-SE	0.95 U	50 U	4.8 U	9.5 U	22 U	3.2 U	2.9 U	95 U	0.48 U	0.48 U
ICS-DSS-08-SE	3.2 U	32 U	16 U	32 U	49 U	31 U	16 U	730 U	2.0 U	1.6 U
ICS-DSS-09-SE	1400 U	**6600 J_M**	340 U	990 U	1300 U	200 U	200 U	10,000 U	1300 U	150 U
ICS-DSS-10-SE	24 U	48 U	4.8 U	35 U	22 U	8.1 U	9.5 U	240 U	0.85 U	0.48 U
ICS-DSS-11-SE	15 U	15 U	15 U	15 U	64 U	24 U	25 U	590 U	3.6 U	1.5 U
ICS-DSS-12-SE	600 U	600 U	3000 U	600 U	600 U	300 U	300 U	60,000 U	300 U	300 U
ICS-DSS-13-SE	0.97 U	20 U	10 U	19 U	18 U	2.3 U	4.0 U	97 U	0.48 U	0.48 U
ICS-DUP-01-SE	0.98 U	0.98 U	4.9 U	4.9 U	11 U	8.7 U	2.5 U	98 U	1.0 U	0.49 U
ICS-DSS-14-SE	0.93 U	9.3 U	4.7 U	9.3 U	6.0 U	0.47 U	0.47 U	93 U	0.47 U	0.47 U
ICS-DSS-15-SE	7.3 U	9.6 U	5.6 U	9.6 U	9.6 U	4.8 U	1.4 U	96 U	0.48 U	0.77 U
ICS-DSS-16-SE	0.99 U	0.99 U	4.9 U	0.99 U	0.99 U	0.49 U	0.49 U	99 U	0.49 U	0.49 U
ICS-DSS-17-SE	20 U	**40 J_M**	120 U	37 U	64 U	9.6 U	9.6 U	950 U	0.60 U	0.48 U
ICS-DSS-18-SE	4.1 U	8.6 U	4.8 U	0.96 U	4.4 U	0.95 U	1.7 U	96 U	0.48 U	0.48 U
ICS-DSS-19-SE	21 U	**240 J_M**	46 U	21 U	66 U	**20 J_M**	**10 J_M**	1800 U	9.8 U	1.0 U
ICS-DSS-20-SE	0.98 U	9.8 U	4.9 U	7.3 U	4.3 U	0.49 U	0.49 U	98 U	0.49 U	0.49 U
ICS-DSS-21-SE	9.9 U	28 U	14 U	9.9 U	16 U	4.9 U	1.6 U	99 U	2.0 U	0.49 U
ICS-DSS-22-SE	0.92 U	26 U	4.6 U	5.3 U	0.92 U	0.46 U	0.46 U	92 U	0.46 U	0.46 U
ICS-DSS-23-SE	1.9 U	5.3 U	4.8 U	2.8 U	4.0 U	0.48 U	0.48 U	96 U	0.48 U	0.48 U
ICS-DSS-24-SE	9.8 U	0.98 U	8.7 U	9.8 U	23 U	4.9 U	2.7 U	98 U	1.6 U	0.49 U
ICS-DSS-25-SE	9.6 U	9.6 U	14 U	9.6 U	9.6 U	4.8 U	4.8 U	150 U	4.3 U	0.48 U
ICS-DSS-26-SE	0.97 U	**22**	13 U	9.7 U	16 U	**29 J_M**	**17 J_M**	430 U	3.3 U	0.48 U
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	14 U	**400**	33 U	14 U	78 U	**10 J_M**	**7 J_M**	1400 U	4.9 U	0.70 U
ICS-DSS-28-SE	8.9 U	44 U	16 U	0.96 U	9.6 U	4.8 U	2.2 U	340 U	0.48 U	0.48 U
ICS-DSS-29-SE	0.93 U	2.3 U	4.6 U	0.93 U	0.93 U	0.46 U	0.46 U	93 U	0.46 U	0.46 U
ICS-DSS-30-SE	0.97 U	**2.6**	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	97 U	0.49 U	0.49 U
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxychlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlordane µg/kg, dry	Toxaphene µg/kg, dry	Hexachloro-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry
Screening Levels	na	na	na	na	na	na	na	na	na	na
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Levels	-----	-----	-----	-----	-----	-----	-----	2
ICS-DSS-01-SE	20 U	20 U	**420**	**420**	**350**	20 U	20 U	**1190**
ICS-DSS-02-SE	38 U	38 U	**190**	**210**	**170**	38 U	38 U	**570**
ICS-DSS-03-SE	97 U	97 U	**450**	**530**	**560**	97 U	97 U	**1540**
ICS-DSS-04-SE	310 U	310 U	**3800 J_M**	**10,000**	**14,000**	310 U	310 U	**27,800**
ICS-DUP-02-SE	770 U	770 U	5800 U	**14,000**	**18,000**	770 U	770 U	32,000
ICS-DSS-05-SE	97 U	**3500**	97 U	**1700**	**1200**	97 U	97 U	**6400**
ICS-DSS-06-SE	250 U	250 U	**2500 J_M**	**5800**	**7000**	250 U	250 U	**15,300**
ICS-DSS-07-SE	38 U	38 U	**71**	190 U	**520**	38 U	38 U	**591**
ICS-DSS-08-SE	63 U	63 U	950 U	**2000**	**1400**	63 U	63 U	**3400**
ICS-DSS-09-SE	5400 U	**120,000**	5400 U	**44,000**	**30,000**	5400 U	5400 U	**194,000**
ICS-DSS-10-SE	39 U	39 U	**690**	**630**	**600**	39 U	39 U	**1920**
ICS-DSS-11-SE	120 U	120 U	**1500**	**1800**	**2000**	120 U	120 U	**5300**
ICS-DSS-12-SE	240 U	**11,000**	240 U	**8900**	**2600**	240 U	240 U	**22,500**
ICS-DSS-13-SE	39 U	39 U	**280**	**230**	**200**	39 U	39 U	**710**
ICS-DUP-01-SE	39 U	39 U	**260**	**260**	**210**	39 U	39 U	**730**
ICS-DSS-14-SE	39 U	39 U	**72**	**180**	**330**	39 U	39 U	**582**
ICS-DSS-15-SE	96 U	96 U	**680**	**740**	**680**	96 U	96 U	**2100**
ICS-DSS-16-SE	4.0 U	4.0 U	**8.0**	**12**	**22**	4.0 U	4.0 U	**42**
ICS-DSS-17-SE	39 U	39 U	**190**	**270**	**280**	39 U	39 U	**740**
ICS-DSS-18-SE	40 U	40 U	**110**	**190**	**200**	40 U	40 U	**500**
ICS-DSS-19-SE	410 U	410 U	**4400**	**4700**	**3400**	410 U	410 U	**12,500**
ICS-DSS-20-SE	39 U	39 U	**240**	**320**	**230**	39 U	39 U	**790**
ICS-DSS-21-SE	40 U	40 U	**450**	**580**	**490**	40 U	40 U	**1520**
ICS-DSS-22-SE	38 U	38 U	**540**	**760**	**400**	38 U	38 U	**1700**
ICS-DSS-23-SE	20 U	20 U	**180**	**200**	**180**	20 U	20 U	**560**
ICS-DSS-24-SE	98 U	98 U	**590**	**560**	**560**	98 U	98 U	**1710**
ICS-DSS-25-SE	96 U	96 U	**500**	**530**	**420**	96 U	96 U	**1450**
ICS-DSS-26-SE	39 U	39 U	**1600**	**1800**	**770**	39 U	39 U	**4170**
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	280 U	280 U	980 U	**3100**	**2700**	280 U	280 U	**5800**
ICS-DSS-28-SE	38 U	38 U	**1100**	**1200**	**580**	38 U	38 U	**2880**
ICS-DSS-29-SE	3.8 U	3.8 U	11 U	**30**	**29**	3.8 U	3.8 U	**59**
ICS-DSS-30-SE	3.9 U	3.9 U	39 U	**130**	**44**	3.9 U	3.9 U	**174**
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Levels	-----	-----	-----	-----	-----	-----	-----	2
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	82,000 U	82,000 U	**630,000**	**770,000**	**200,000**	82,000 U	82,000 U	**1,600,000**
ICS-SED2	470 U	470 U	**12000**	**18000**	**5500**	470 U	470 U	**35,500**
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	180 U	180 U	**2000**	**2600**	**1800**	180 U	180 U	**6400**
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2,3,7,8-TCDF ng/kg, dry	total TCDF ng/kg, dry	2,3,7,8-TCDD ng/kg, dry	total TCDD ng/kg, dry	1,2,3,7,8-PeCDF ng/kg, dry	2,3,4,7,8-PeCDF ng/kg, dry	total PeCDF ng/kg, dry	1,2,3,7,8-PeCDD ng/kg, dry	total PeCDD ng/kg, dry	1,2,3,4,7,8-HxCDF ng/kg, dry	1,2,3,6,7,8-HxCDF ng/kg, dry
Screening Levels	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-01-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-02-SE	**1.76**	31.0	**2.37**	15.9	**1.42 J**	**2.93**	58.4	**5.52**	36.2	**11.4**	**4.22**
ICS-DSS-03-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-04-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP-02-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-05-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-06-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-07-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-08-SE	**12.4**	314	**15.6**	114	**12.7**	**30.9**	670	**49.0**	346	**163**	**68.9**
ICS-DSS-09-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-10-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-11-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-12-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-13-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP-01-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-14-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-15-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-16-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-17-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-18-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-19-SE	**22.1**	229	**30.8**	124	**21.0**	**44.2**	728	**60.5**	369	**265**	**71.7**
ICS-DSS-20-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-21-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-22-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-23-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-24-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-25-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-28-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-29-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-30-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2,3,7,8-TCDF ng/kg, dry	total TCDF ng/kg, dry	2,3,7,8-TCDD ng/kg, dry	total TCDD ng/kg, dry	1,2,3,7,8-PeCDF ng/kg, dry	2,3,4,7,8-PeCDF ng/kg, dry	total PeCDF ng/kg, dry	1,2,3,7,8-PeCDD ng/kg, dry	total PeCDD ng/kg, dry	1,2,3,4,7,8-HxCDF ng/kg, dry	1,2,3,6,7,8-HxCDF ng/kg, dry
Screening Levels	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2,3,4,6,7,8-HxCDF ng/kg, dry	1,2,3,7,8,9-HxCDF ng/kg, dry	total HxCDF ng/kg, dry	1,2,3,4,7,8-HxCDD ng/kg, dry	1,2,3,6,7,8-HxCDD ng/kg, dry	1,2,3,7,8,9-HxCDD ng/kg, dry	total HxCDD ng/kg, dry	1,2,3,4,6,7,8-HpCDF ng/kg, dry	1,2,3,4,7,8,9-HpCDF ng/kg, dry	total HpCDF ng/kg, dry	1,2,3,4,6,7,8-HpCDD ng/kg, dry
Screening Levels	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-01-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-02-SE	**3.80**	**1.86 J**	162	**7.05**	**26.9**	**27.3**	236	**144**	**5.09**	381	**771**
ICS-DSS-03-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-04-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP-02-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-05-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-06-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-07-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-08-SE	**86.9**	**19.3**	1810	**65.9**	**363**	**271**	2780	**1810**	**93.6**	5000	**8330**
ICS-DSS-09-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-10-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-11-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-12-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-13-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP-01-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-14-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-15-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-16-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-17-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-18-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-19-SE	**102**	**38.7**	2750	**67.1**	**367**	**306**	3060	**2090**	**117**	6780	**10,800**
ICS-DSS-20-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-21-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-22-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-23-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-24-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-25-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DDS26-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-27-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-28-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-29-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-30-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-31-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	2,3,4,6,7,8-HxCDF ng/kg, dry	1,2,3,7,8,9-HxCDF ng/kg, dry	total HxCDF ng/kg, dry	1,2,3,4,7,8-HxCDD ng/kg, dry	1,2,3,6,7,8-HxCDD ng/kg, dry	1,2,3,7,8,9-HxCDD ng/kg, dry	total HxCDD ng/kg, dry	1,2,3,4,6,7,8-HpCDF ng/kg, dry	1,2,3,4,7,8,9-HpCDF ng/kg, dry	total HpCDF ng/kg, dry	1,2,3,4,6,7,8-HpCDD ng/kg, dry
Screening Levels	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-32-SE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	total HpCDD ng/kg, dry	OCDF ng/kg, dry	OCDD ng/kg, dry	TEQ ND=0 ng/kg, dry	TEQ ND/2 ng/kg, dry
Screening Levels	-----	-----	-----	0.2	0.2
ICS-DSS-01-SE	-----	-----	-----	-----	-----
ICS-DSS-02-SE	1520	**384**	**7400**	**28.8**	**28.8**
ICS-DSS-03-SE	-----	-----	-----	-----	-----
ICS-DSS-04-SE	-----	-----	-----	-----	-----
ICS-DUP-02-SE	-----	-----	-----	-----	-----
ICS-DSS-05-SE	-----	-----	-----	-----	-----
ICS-DSS-06-SE	-----	-----	-----	-----	-----
ICS-DSS-07-SE	-----	-----	-----	-----	-----
ICS-DSS-08-SE	15,400	**5080**	**70,100**	**304**	**304**
ICS-DSS-09-SE	-----	-----	-----	-----	-----
ICS-DSS-10-SE	-----	-----	-----	-----	-----
ICS-DSS-11-SE	-----	-----	-----	-----	-----
ICS-DSS-12-SE	-----	-----	-----	-----	-----
ICS-DSS-13-SE	-----	-----	-----	-----	-----
ICS-DUP-01-SE	-----	-----	-----	-----	-----
ICS-DSS-14-SE	-----	-----	-----	-----	-----
ICS-DSS-15-SE	-----	-----	-----	-----	-----
ICS-DSS-16-SE	-----	-----	-----	-----	-----
ICS-DSS-17-SE	-----	-----	-----	-----	-----
ICS-DSS-18-SE	-----	-----	-----	-----	-----
ICS-DSS-19-SE	22,200	**7250**	**117,000**	**396**	**396**
ICS-DSS-20-SE	-----	-----	-----	-----	-----
ICS-DSS-21-SE	-----	-----	-----	-----	-----
ICS-DSS-22-SE	-----	-----	-----	-----	-----
ICS-DSS-23-SE	-----	-----	-----	-----	-----
ICS-DSS-24-SE	-----	-----	-----	-----	-----
ICS-DSS-25-SE	-----	-----	-----	-----	-----
ICS-DSS-26-SE	-----	-----	-----	-----	-----
ICS-DDS26-SE	-----	-----	-----	-----	-----
ICS-DSS-27-SE	-----	-----	-----	-----	-----
ICS-DSS-28-SE	-----	-----	-----	-----	-----
ICS-DSS-29-SE	-----	-----	-----	-----	-----
ICS-DSS-30-SE	-----	-----	-----	-----	-----
ICS-DSS-31-SE	-----	-----	-----	-----	-----

TABLE F.2a - Results of Surface Sediment Sample Analyses - 2012 and 2014

Sample Location	total HpCDD ng/kg, dry	OCDF ng/kg, dry	OCDD ng/kg, dry	TEQ ND=0 ng/kg, dry	TEQ ND/2 ng/kg, dry
Screening Levels	-----	-----	-----	0.2	0.2
ICS-DSS-32-SE	-----	-----	-----	-----	-----
ICS-SED1	-----	-----	-----	-----	-----
ICS-SED2	-----	-----	-----	-----	-----
ICS-SED4	-----	-----	-----	-----	-----
ICS-LDWSS84	-----	-----	-----	-----	-----
ICS-B5a2	-----	-----	-----	-----	-----

Notes: *J = estimate associated with value less than the verifiable lower quantitation limit*

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Jb & B = associated value may be biased high due to contribution from laboratory background or method blank

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD(M. 8081).

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

Jp = estimated value due to high variability exhibited between dual column responses on GC/ECD (M. 8081)

(a) - Screening level based on carbon normalized values

(b) - Screening level based on benzo(a)pyrene beach-play TEQ

na - Screenihng level not available

Exceeds dry-weight based screening level as available

TABLE F.2b - BaPEq-TEQ Calculations
Embayment Surface Sediments - 2012 Data

ICS/NW Cooperage Site
Seattle, WA

Sample Location	Collection Date	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry	Adjusted Conc. TEF=1.0
ICS-DSS-01-SE	12/10/12	VW14	**3500**	**350**	**3800**	**38**	**5000**	**500**	**3000**	**3000**
ICS-DSS-02-SE	7/3/12	VB16	**470**	**47**	**680**	**6.8**	**940**	**94**	**440**	**440**
ICS-DSS-03-SE	7/3/12	VB16	**340**	**34**	**770**	**7.7**	**850**	**85**	**260**	**260**
ICS-DSS-04-SE	7/3/12	VB16	**190**	**19**	**410**	**4.1**	**470**	**47**	**220**	**220**
ICS-DSS-05-SE	7/3/12	VB16	**110**	**11**	**310**	**3.1**	**360**	**36**	**95**	**95**
ICS-DSS-06-SE	7/3/12	VB16	**35**	**3.5**	**110**	**1.1**	**180**	**18**	**150**	**150**
ICS-DSS-07-SE	7/3/12	VB16	**20**	**2**	**36**	**0.36**	**52**	**5.2**	**24**	**24**
ICS-DSS-08-SE	7/3/12	VB16	**72**	**7.2**	**130**	**1.3**	**190**	**19**	**78**	**78**
ICS-DSS-09-SE	7/3/12	VB16	**2700**	**270**	**5200**	**52**	**3300**	**330**	**1800**	**1800**
ICS-DSS-10-SE	7/3/12	VB16	**12**	**1.2**	**19**	**0.19**	**30**	**3**	**13**	**13**
ICS-DSS-11-SE	7/3/12	VB16	**80**	**8**	**130**	**1.3**	**190**	**19**	**96**	**96**
ICS-DSS-12-SE	7/3/12	VB16	**130000**	**13000**	**180000**	**1800**	**120000**	**12000**	**71000**	**71000**
ICS-DSS-13-SE	7/3/12	VB16	**76**	**7.6**	**87**	**0.87**	**130**	**13**	**76**	**76**
ICS-DSS-14-SE	7/2/12	VB00	**47**	**4.7**	**100**	**1**	**140**	**14**	**46**	**46**
ICS-DSS-15-SE	7/3/12	VB16	**53**	**5.3**	**98**	**0.98**	**140**	**14**	**52**	**52**
ICS-DSS-16-SE	7/2/12	VB00	19 U		19 U		**14**	**1.4**	19 U	
ICS-DSS-17-SE	7/2/12	VB00	**42**	**4.2**	**66**	**0.66**	**98**	**9.8**	**41**	**41**
ICS-DSS-18-SE	7/2/12	VB00	**34**	**3.4**	**67**	**0.67**	**140**	**14**	**44**	**44**
ICS-DSS-19-SE	7/2/12	VB00	**260**	**26**	**460**	**4.6**	**730**	**73**	**350**	**350**
ICS-DSS-20-SE	7/2/12	VB00	**160**	**16**	**370**	**3.7**	**300**	**30**	**82**	**82**
ICS-DSS-21-SE	7/2/12	VB00	**200**	**20**	**340**	**3.4**	**410**	**41**	**180**	**180**
ICS-DSS-22-SE	7/2/12	VB00	**63**	**6.3**	**81**	**0.81**	**110**	**11**	**56**	**56**
ICS-DSS-23-SE	7/2/12	VB00	**71**	**7.1**	**92**	**0.92**	**110**	**11**	**41**	**41**
ICS-DSS-24-SE	7/3/12	VB16	**96**	**9.6**	**190**	**1.9**	**230**	**23**	**94**	**94**
ICS-DSS-25-SE	7/3/12	VB16	**100**	**10**	**160**	**1.6**	**240**	**24**	**100**	**100**
ICS-DSS-26-SE	7/2/12	VB00	**170**	**17**	**240**	**2.4**	**420**	**42**	**200**	**200**
ICS-DSS-27-SE	7/2/12	VB00	**250**	**25**	**360**	**3.6**	**580**	**58**	**280**	**280**
ICS-DSS-28-SE	7/2/12	VB00	**43**	**4.3**	**50**	**0.5**	**77**	**7.7**	**28**	**28**
ICS-DSS-29-SE	7/2/12	VB00	**18**	**1.8**	**45**	**0.45**	**54**	**5.4**	**19**	**19**
ICS-DSS-30-SE	7/2/12	VB00	19 U		**15**	**0.15**	**26**	**2.6**	19 U	
ICS-DUP-13-SE	7/3/12	VB16	**60**	**6**	**77**	**0.77**	**100**	**10**	**54**	**54**
ICS-DUP-04-SE	7/3/12	VB16	**120**	**12**	**180**	**1.8**	**290**	**29**	**180**	**180**

TABLE F.2b - BaPEq-TEQ Calculations
Embayment Surface Sediments - 2012 Data

Sample Location	Collection Date	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry	Adjusted Conc. TEF=1.0
Number of Samples			**32**	**-----**	**32**		**32**		**32**	
Number of Detections			**30**	**-----**	**31**		**32**		**30**	
Percent Detected			**93.8%**	**-----**	**96.9%**		**100.0%**		**93.8%**	
Highest Conc.			**130000**	**-----**	**180000**		**120000**		**71000**	

Notes: *U = nondetected at the associated lower reporting limit.*
TEF -Toxicity Equivalency Factor
TEQ - Toxicity Equivalency Quotient
BaPEq. - Benzo(a)pyrene equivalent concentration

TABLE F.2b - BaPEq-TEQ Calculations
Embayment Surface Sediments - 2012 Data

Sample Location	Collection Date	ARI Delivery Group	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	TEQ Sum BaPEq µg/kg, dry
ICS-DSS-01-SE	12/10/12	VW14	**1200**	**120**	**510**	**510**	**4518**
ICS-DSS-02-SE	7/3/12	VB16	**270**	**27**	**140**	**140**	**755**
ICS-DSS-03-SE	7/3/12	VB16	**140**	**14**	**70**	**70**	**471**
ICS-DSS-04-SE	7/3/12	VB16	**140**	**14**	**71**	**71**	**375**
ICS-DSS-05-SE	7/3/12	VB16	**51**	**5.1**	**27**	**27**	**177**
ICS-DSS-06-SE	7/3/12	VB16	**61**	**6.1**	**17**	**17**	**196**
ICS-DSS-07-SE	7/3/12	VB16	**19**	**1.9**	**10**	**10**	**43**
ICS-DSS-08-SE	7/3/12	VB16	**110**	**11**	**37**	**37**	**154**
ICS-DSS-09-SE	7/3/12	VB16	**900**	**90**	**580**	**580**	**3122**
ICS-DSS-10-SE	7/3/12	VB16	**9.2**	**0.92**	18 U		**18**
ICS-DSS-11-SE	7/3/12	VB16	**65**	**6.5**	**21**	**21**	**152**
ICS-DSS-12-SE	7/3/12	VB16	**21000**	**2100**	**13000**	**13000**	**112900**
ICS-DSS-13-SE	7/3/12	VB16	**43**	**4.3**	**13**	**13**	**115**
ICS-DSS-14-SE	7/2/12	VB00	**38**	**3.8**	**14**	**14**	**84**
ICS-DSS-15-SE	7/3/12	VB16	**38**	**3.8**	**20**	**20**	**96**
ICS-DSS-16-SE	7/2/12	VB00	19 U		19 U		**1.4**
ICS-DSS-17-SE	7/2/12	VB00	18 U		18 U		**56**
ICS-DSS-18-SE	7/2/12	VB00	**34**	**3.4**	19 U		**65**
ICS-DSS-19-SE	7/2/12	VB00	**190**	**19**	**99**	**99**	**572**
ICS-DSS-20-SE	7/2/12	VB00	**51**	**5.1**	**21**	**21**	**158**
ICS-DSS-21-SE	7/2/12	VB00	**110**	**11**	**53**	**53**	**308**
ICS-DSS-22-SE	7/2/12	VB00	**34**	**3.4**	**11**	**11**	**89**
ICS-DSS-23-SE	7/2/12	VB00	**27**	**2.7**	20 U		**63**
ICS-DSS-24-SE	7/3/12	VB16	**50**	**5**	**26**	**26**	**160**
ICS-DSS-25-SE	7/3/12	VB16	**58**	**5.8**	**20**	**20**	**161**
ICS-DSS-26-SE	7/2/12	VB00	**160**	**16**	**47**	**47**	**324**
ICS-DSS-27-SE	7/2/12	VB00	**170**	**17**	**77**	**77**	**461**
ICS-DSS-28-SE	7/2/12	VB00	**18**	**1.8**	19 U		**42**
ICS-DSS-29-SE	7/2/12	VB00	**17**	**1.7**	18 U		**28**
ICS-DSS-30-SE	7/2/12	VB00	**10**	**1**	19 U		**4**
ICS-DUP-13-SE	7/3/12	VB16	**36**	**3.6**	**12**	**12**	**86**
ICS-DUP-04-SE	7/3/12	VB16	**120**	**12**	**71**	**71**	**306**

TABLE F.2b - BaPEq-TEQ Calculations
Embayment Surface Sediments - 2012 Data

Sample Location	Collection Date	ARI Delivery Group	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	TEQ Sum BaPEq µg/kg, dry
Number of Samples			**32**		**32**		**32**
Number of Detections			**30**		**24**		**32**
Percent Detected			**93.8%**		**75.0%**		**100%**
Highest Conc.			**21000**		**13000**		**112900**

U = nondetected at the associated lower reporting limit.
TEF -Toxicity Equivalency Factor
TEQ - Toxicity Equivalency Quotient
BaPEq. - Benzo(a)pyrene equivalent concentration

TABLE F.3 - Surface Sediment
Sample Grain Size Analyses - July 2012

ICS/NW Cooperage Site
Seattle, WA

Sample Location	Collection Date	ARI Delivery Group	gravel > 4750 µm %	coarse sand 4750 - 2000 µm %	medium sand 2000 - 425 µm %	fine sand 425 - 75 µm %	v. coarse silt 75 - 32 µm %	coarse silt 32 - 22 µm %	medium silt 22 - 13 µm %	fine silt 13 - 7 µm %
Screening Levels			-----	-----	-----	-----	-----	-----	-----	-----
ICS-DSS-02-SE	7/3/12	VB16	71.5	7.7	11.4	5.8	0.1	0.2	0.6	1.0
ICS-DSS-04-SE	7/3/12	VB16	23.9	7.9	21.4	32.6	0.4	1.1	2.6	2.5
ICS-DSS-08-SE	7/3/12	VB16	87.1	1.3	4.2	4.2	0.1	0.4	0.6	0.7
ICS-DSS-17-SE	7/2/12	VB00	25.4	8.7	12.2	36.1	1.9	1.7	2.4	4.5
ICS-DSS-19-SE	7/2/12	VB00	0.0	0.2	4.6	35.3	1.7	8.7	9.6	15.7
ICS-DSS-30-SE	7/2/12	VB00	8.1	2.7	14	56.5	4.7	2.7	1.3	3.1

Sample Location	Collection Date	ARI Delivery Group	v. fine silt 7 - 3.2 µm %	total silt 32 - 3.2 µm %	clay		total fines < 32 µm %
					3.2 - 1.3 µm %	< 1.3 µm %	
Screening Levels			-----	-----	-----	-----	-----
ICS-DSS-02-SE	7/3/12	VB16	0.4	1.9	0.3	0.9	3.1
ICS-DSS-04-SE	7/3/12	VB16	2.2	6.6	1.5	4.0	12.1
ICS-DSS-08-SE	7/3/12	VB16	0.5	1.8	0.3	0.7	2.8
ICS-DSS-17-SE	7/2/12	VB00	2.1	10.5	2.1	3.1	15.7
ICS-DSS-19-SE	7/2/12	VB00	9.6	35.7	3.5	11.3	50.5
ICS-DSS-30-SE	7/2/12	VB00	1.3	11.8	0.9	4.0	16.7

Notes: *grain size analyses: % retained in each size fraction*

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Collection Date	ARI Delivery Group	% solids %	Wet density lb/ft^3	Moisture content %	Dry density lb/ft^3	TOC %	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry
Screening Levels		-----	-----	-----	-----	-----	-----	-----	na	**7**	na	**5.1**
ICS-A-SE-1	0.4	11/26/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	11/26/12	VV01	76	-----	-----	-----	1.37	0.3 U	**11.5**	0.3 U	**0.3**
ICS-A-SE-3	2.7	11/26/12	VV01		-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	11/26/12	VV01	61	-----	-----	-----	2.77	0.3 U	**9.7**	**0.4**	**0.2**
ICS-A-SE-5	5.1	11/26/12	VV01	66	-----	-----	-----	1.61	0.3 U	**6.5**	**0.5**	0.1 U
ICS-A-SE-6	6.3	11/26/12	XD56	59	-----	-----	-----	3.22	0.3 U	**9.5**	**0.6**	**0.2**
ICS-A-SE-7	7.2	11/26/12	XD56	62	-----	-----	-----	4.22	0.3 U	**9.2**	**0.6**	**0.2**
ICS-B-SE-1	1.1	11/27/12	VV01	65	-----	-----	-----	0.775	0.3 U	**19.8**	0.3 U	0.2 U
ICS-B-SE-2	2.2	11/27/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	11/27/12	VV01	49	-----	-----	-----	3.96	**0.8 J_R**	**31.1**	0.4 U	**5.4**
ICS-B-SE-4	4.4	11/27/12	XD56	64	-----	-----	-----	3.37	0.3 U	**9.4**	0.3 U	**1.1**
ICS-B-SE-5	5.5	11/27/12	VV01	61	-----	-----	-----	3.64	0.3 U	**7.7**	**0.5**	**0.2**
ICS-B-SE-6	6.6	11/27/12	XD56	60	100.6	65.8	60.7	2.66	0.3 U	**10.1**	**0.6**	**0.3**
ICS-C-SE-1	0.5	11/27/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	11/27/12	VV01	73	-----	-----	-----	0.894	0.3 U	**5.6**	0.3 U	0.1 U
ICS-C-SE-3	3.3	11/27/12	VV01	62	-----	-----	-----	2.29	0.3 U	**7.3**	**0.4**	**0.1**
ICS-C-SE-4	4.4	11/27/12	VV01	80	-----	-----	-----	1.57	0.2 U	**4.1**	0.2 U	0.1 U
ICS-D-SE-1	0.7	11/27/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	11/27/12	VV01	66	-----	-----	-----	6.91	**1.1 J_R**	**15.1**	0.3 U	**8.8**
ICS-D-SE-3	3.8	11/27/12	VV01	65	-----	-----	-----	2.07	0.3 U	**8.7**	**0.4**	**0.2**
ICS-D-SE-4	5.3	11/27/12	VV01	62	-----	-----	-----	2.70	0.3 U	**8.8**	**0.6**	**0.2**
ICS-D-SE-5	6.7	11/27/12	XD56	61	-----	-----	-----	2.26	0.3 U	**9.4**	**0.5**	**0.2**
ICS-F-SE-1	0.5	11/27/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	11/27/12	XD56	56	-----	-----	-----	3.15	0.3 U	**12.7**	0.3 U	**3.4**
ICS-F-SE-3	3.1	11/27/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	12/10/12	VV01	-----	99.5	70.8	58.3	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	11/27/12	XD56	60	-----	-----	-----	2.22	0.3 U	**8.7**	**0.6**	**0.2**
ICS-F-SE-5	5.8	11/27/12	VV01	60	-----	-----	-----	2.67	0.3 U	**11.2**	**0.5**	**0.2**
ICS-F-SE-6	7	11/27/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	11/27/12	VV01	66	-----	-----	-----	1.26	0.3 U	**5.8**	**0.4**	0.1 U
ICS-F-SE-8	9.7	11/27/12	VV01	76	115.7	28.5	90.1	0.436	0.3 U	**2.0**	0.3 U	0.1 U
ICS-F-SE-9	10.9	11/27/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Collection Date	ARI Delivery Group	% solids %	Wet density lb/ft^3	Moisture content %	Dry density lb/ft^3	TOC %	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry
Screening Levels		-----	-----	-----	-----	-----	-----	-----	na	**7**	na	**5.1**
ICS-G-SE-1	0.6	11/28/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	11/28/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	11/28/12	VV01	63	-----	-----	-----	1.78	0.3 U	**11.9**	**0.5**	**0.5**
ICS-DUP1-SE	dup. of G-SE-3	11/28/12	VV01	61	-----	-----	-----	1.32	0.3 U	**10.1**	**0.5**	**0.5**
ICS-G-SE-4	4.1	11/28/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	11/28/12	VV01	58	-----	-----	-----	1.85	0.3 U	**24.9**	**0.4**	**2.6**
ICS-G-SE-6	6.8	11/28/12	VV01	60	-----	-----	-----	1.60	0.3 U	**11.6**	**0.5**	**0.3**
ICS-H-SE-1	0.4	11/28/12	VV01	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	11/28/12	VV01	79	-----	-----	-----	2.00	0.2 U	**4.7**	**0.3**	**0.5**
ICS-H-SE-3	3.3	11/28/12	VV01	69	-----	-----	-----	3.41	0.2 U	**7.2**	0.2 U	**1.3**
ICS-H-SE-4	4.7	11/28/12	VV10	74	-----	-----	-----	0.856	0.3 U	**2.7**	0.3 U	0.1 U
ICS-I-SE-1	0.9	11/28/12	VV10	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	11/28/12	VV10	70	-----	-----	-----	3.13	**0.3**	**10.1**	**0.3**	**0.4**
ICS-I-SE-3	4.2	11/28/12	VV10	58	96.2	84.7	52.1	2.28	0.3 U	**6.6**	**0.4**	**0.2**
ICS-I-SE-4	5.9	11/28/12	XD56	61	-----	-----	-----	2.84	0.3 U	**11.1**	**0.5**	**0.2**
ICS-I-SE-5	7.8	11/28/12	VV10	67	114	35.6	84.1	1.02	0.3 U	**5.1**	0.3 U	0.1 U
ICS-I-SE-6	9.5	11/28/12	VV10	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	11/28/12	VV10	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	11/28/12	VV10	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	11/28/12	VV10	56	-----	-----	-----	2.31	0.4 U	**26.0**	**0.5**	**2.2**
ICS-J-SE-4	6.8	11/28/12	XD56	66	-----	-----	-----	0.96	0.3 U	**6.1**	0.3 U	0.1 U
ICS-J-SE-5	8.5	11/28/12	VV10	67	-----	-----	-----	1.33	0.3 U	**5.6**	**0.3**	0.1 U
ICS-J-SE-6	10.4	11/28/12	VV10	63	-----	-----	-----	1.55	0.3 U	**7.2**	**0.4**	0.1 U
ICS-K-SE-1	0.7	11/30/12	VV10	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	11/30/12	VV10	57	-----	-----	-----	2.37	0.3 U	**11.3**	0.3 U	**2.5**
ICS-DUP2-SE	dup. of K-SE-2	11/30/12	VV10	57	-----	-----	-----	2.03	0.3 U	**12.6**	0.3 U	**1.5**
ICS-K-SE-3	3.8	11/30/12	XD56	88	-----	-----	-----	0.88	0.2 U	**4.1**	0.2 U	**0.2**
ICS-K-SE-4	5.5	11/30/12	VV10	60	-----	-----	-----	2.31	0.3 U	**21.0**	**0.4**	**1.6**
ICS-K-SE-5	7	11/30/12	VV10	73	-----	-----	-----	1.83	0.3 U	**6.9**	**0.3**	0.1 U
ICS-L-SE-1	0.7	11/30/12	VV10	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	11/30/12	VV10	74	-----	-----	-----	1.66	0.3 U	**6.3**	0.3 U	**0.4**
ICS-L-SE-3	3.5	11/30/12	VV10	62	-----	-----	-----	1.55	0.3 U	**7.1**	**0.3**	**0.3**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Collection Date	ARI Delivery Group	% solids %	Wet density lb/ft^3	Moisture content %	Dry density lb/ft^3	TOC %	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry
Screening Levels		-----	-----	-----	-----	-----	-----	-----	na	**7**	na	**5.1**
ICS-L-SE-4	5	11/30/12	VV10	70	-----	-----	-----	1.44	0.3 U	**6.2**	**0.3**	0.1 U
ICS-L-SE-5	6.7	11/30/12	VV10	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	11/30/12	VV10	66	-----	-----	-----	2.55	0.3 U	**7.7**	**0.3**	**0.4**
ICS-M-SE-2	1.6	11/30/12	VV10	84	-----	-----	-----	2.95	0.2 U	**2.9**	0.2 U	0.1 U
ICS-M-SE-3	2.7	11/30/12	VV10	80	-----	-----	-----	0.283	0.2 U	**1.1**	0.2 U	0.1 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Chromium mg/kg, dry	Copper mg/kg, dry	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	Total Petroleum Hydrocarbons		
									Diesel-range mg/kg, dry	Lube-range mg/kg, dry	Total mg/kg,dry
Screening Levels		**260**	**390**	**450**	**0.41**	na	**6.1**	**410**	-----	-----	**2000(c)**
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	**19.5**	**427**	**86.7**	**0.24**	**15.8**	0.3 U	**111**	**180**	**450**	**630**
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	**21.5**	**42.8**	**10.3**	**0.17**	**20.5**	0.3 U	**61**	**32**	**52**	**84**
ICS-A-SE-5	5.1	**22**	**33.7**	**10.6**	**0.12**	**17.9**	0.3 U	**52**	**29**	**43**	**72**
ICS-A-SE-6	6.3	**25.7**	**49.3**	**12.4**	**0.15**	**24.0**	0.3 U	**72**	**29**	**58**	**87**
ICS-A-SE-7	7.2	**23.3**	**43.5**	**10.4**	**0.14**	**20.3**	0.3 U	**63**	**44**	**77**	**121**
ICS-B-SE-1	1.1	**22.7**	**34.8**	**14.9**	**0.04**	**26.6**	0.3 U	**80**	**29**	**56**	**85**
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	**153**	**169**	**796**	**13.1**	**29**	**0.5**	**670**	**6700**	**7600**	**14300**
ICS-B-SE-4	4.4	**45.8**	**133**	**218**	**1.84 J**	**17.8**	0.3 U	**286**	**4200**	**10000**	**14200**
ICS-B-SE-5	5.5	**24**	**43.1**	**12.4**	**0.13**	**21.3**	0.3 U	**65**	**39**	**75**	**114**
ICS-B-SE-6	6.6	**25.4**	**50.6**	**13.3**	**0.19 J**	**24.6**	0.3 U	**74**	**47**	**100**	**147**
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	**11.0**	**36.0**	**13.1**	**0.04**	**8.3**	0.3 U	**31**	**34**	**57**	**91**
ICS-C-SE-3	3.3	**18.9**	**34.0**	**7.9**	**0.12**	**18.1**	0.3 U	**53**	27	**39**	**66**
ICS-C-SE-4	4.4	**10.8**	**11.0**	**8.0**	**0.03**	**7.3**	0.2 U	**26**	20	**41**	**61**
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	**431**	**254**	**4430**	**38.8**	**43.9**	**0.4**	**3240**	**12,000**	**9900**	**21900**
ICS-D-SE-3	3.8	**25**	**41.3**	**28.3**	**2.05**	**21.1**	0.3 U	**79**	**39**	**64**	**103**
ICS-D-SE-4	5.3	**27**	**47.7**	**10.6**	**0.14**	**24.3**	0.3 U	**68**	**27**	**44**	**71**
ICS-D-SE-5	6.7	**25.1**	**46.6**	**11.6**	**0.15 J**	**21.9**	0.3 U	**67**	**43**	**76**	**119**
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	**114**	**56.6**	**4380**	**0.29 J**	**23.2**	0.3 U	**1420**	**12000**	**2100**	**14100**
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----			-----
ICS-F-SE-4	4.5	**24.7**	**46.1**	**11.5**	**0.16 J**	**23.0**	0.3 U	**70**	**43**	**72**	**115**
ICS-F-SE-5	5.8	**24.4**	**50.9**	**17.4**	**0.17**	**22.7**	0.3 U	**66**	**40**	**49**	**89**
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	**18.4**	**33.7**	**11.5**	**0.09**	**17.9**	0.3 U	**54**	17	26	**43**
ICS-F-SE-8	9.7	**12.2**	**14.2**	**2.1**	**0.02**	**10.8**	0.3 U	**28**	6.5 U	13 U	13 U
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Chromium mg/kg, dry	Copper mg/kg, dry	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	Total Petroleum Hydrocarbons		
									Diesel-range mg/kg, dry	Lube-range mg/kg, dry	Total mg/kg,dry
Screening Levels		**260**	**390**	**450**	**0.41**	na	**6.1**	**410**	-----	-----	**2000(c)**
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	**23.7**	**41.7**	**22.5**	**0.20**	**22.0**	**0.4**	**91**	**85**	**140**	**225**
ICS-DUP1-SE	dup. of G-SE-3	**22.5**	**39.3**	**20.4**	**0.21**	**21.2**	**0.4**	**84**	**82**	**130**	**212**
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	**112**	**141**	**1340**	**0.49**	**49.0**	**0.6**	**840**	**6700**	**9600**	**16300**
ICS-G-SE-6	6.8	**23.0**	**65.3**	**33.9**	**0.20**	**24.2**	0.3 U	**81**	**73**	**120**	**193**
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	**59.7**	**46.9**	**168**	**0.39**	**32.8**	0.2 U	**149**	**300**	**580**	**880**
ICS-H-SE-3	3.3	**96.4**	**61.3**	**936**	**4.85**	**19.8**	0.2 U	**377**	**1400**	**2000**	**3400**
ICS-H-SE-4	4.7	**14.0**	**18.1**	**6.5**	**0.04**	**10.5**	0.3 U	**37**	28	**50**	**78**
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	**24.9**	**37.3**	**123**	**1.77**	**17.3**	0.2 U	**109**	**290**	**560**	**850**
ICS-I-SE-3	4.2	**18.4**	**41.4**	**25.4**	**0.30**	**16.6**	0.3 U	**60**	**76**	**130**	**206**
ICS-I-SE-4	5.9	**26.3**	**58.5**	**38.5**	**0.24 J**	**22.0**	0.3 U	**91**	**61**	**120**	**181**
ICS-I-SE-5	7.8	**14.4**	**34.7**	**18.8**	**0.14**	**12.5**	0.3 U	**40**	250	**460**	**710**
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	**64.4**	**61.1**	**224**	**0.29**	**20.2**	**0.9**	**201**	**1600**	**1400**	**3000**
ICS-J-SE-4	6.8	**16.0**	**22.3**	**11.4**	**0.08 J**	**11.7**	0.3 U	**51**	**40**	**72**	**112**
ICS-J-SE-5	8.5	**15.3**	**25.3**	**13.7**	**0.11**	**13.1**	0.3 U	**44**	33	**62**	**95**
ICS-J-SE-6	10.4	**17.8**	**43.6**	**22.4**	**0.11**	**16.3**	0.3 U	**56**	**41**	**58**	**99**
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	**52.4**	**129**	**310**	**1.95**	**19.2**	**0.5**	**213**	**560**	**1200**	**1760**
ICS-DUP2-SE	dup. of K-SE-2	**59.3**	**115**	**364**	**2.32**	**21.6**	**0.6**	**261**	**530**	**1200**	**1730**
ICS-K-SE-3	3.8	**26.4**	**25.1**	**79.3**	**0.38 J**	**21.2**	0.2 U	**70**	**70**	**180**	**250**
ICS-K-SE-4	5.5	**45.2**	**46.3**	**241**	**0.21**	**18.0**	**0.5**	**143**	**620**	**440**	**1060**
ICS-K-SE-5	7	**14.9**	**25.1**	**17.7**	**0.12**	**13.2**	0.3 U	**46**	28	**55**	**83**
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	**23.6**	**21.9**	**87.2**	**0.34**	**10.5**	0.3 U	**82**	**1200**	**1400**	**2600**
ICS-L-SE-3	3.5	**17.9**	**44.3**	**62.0**	**0.63**	**14.0**	0.3 U	**89**	**77**	**120**	**197**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Chromium mg/kg, dry	Copper mg/kg, dry	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	Total Petroleum Hydrocarbons		
									Diesel-range mg/kg, dry	Lube-range mg/kg, dry	Total mg/kg,dry
Screening Levels		**260**	**390**	**450**	**0.41**	na	**6.1**	**410**	-----	-----	**2000(c)**
ICS-L-SE-4	5	**18.4**	**29.5**	**11.9**	**0.31**	**17.0**	0.3 U	**52**	24	**42**	**66**
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	**21.7**	**52.9**	**57.9**	**0.21**	**17.8**	0.3 U	**116**	55	**160**	**215**
ICS-M-SE-2	1.6	**13.0**	**16.8**	**23.7**	**0.04**	**10.1**	0.2 U	**48**	**16**	**29**	**45**
ICS-M-SE-3	2.7	**8.9**	**8.0**	**1.9**	0.3 U	**7.4**	0.2 U	**21**	6.1 U	12 U	12 U

Notes:

U = nondetected at the associated lower reporting limit.

J = estimate associated with value less than the verifiable lower quantitation limit.

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

J_Q = estimate; due to noncompliant CCV check.

J_B = associated value may be biased high due to contribution from laboratory background or method blank.

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).

*** bold-typed values resemble corresponding petroleum hydrocarbon mixture*

(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)

(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).

(c) - SMS value not available. Based on Method A value (WAC 173-340-900, Tbl. 745-1)

- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry
Screening Levels		**420**	na	na	(b)	**57**	(b)	**63**	**670**
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	**72 J**	20 U	**4.9 J**	**3.0 J**	**130**	**6.5**	**5.5**	**57**
ICS-A-SE-5	5.1	**34 J**	19 U	4.8 U	**2.9 J**	**130**	**10**	**3.8 J**	**25 J**
ICS-A-SE-6	6.3	61	20 U	5.0 U	5.0 U	**190**	5.0 U	**6.8**	**50**
ICS-A-SE-7	7.2	66	19 U	4.8 U	4.8 U	**140**	4.8 U	**6.5**	**41**
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	**60 J**	57 U	**94**	**300**	57 U	**97**	**14 J**	110 U
ICS-B-SE-4	4.4	**96**	52 U	**160**	**370**	52 U	**150**	**42**	**55**
ICS-B-SE-5	5.5	**37 J**	20 U	**20**	**22**	**150**	**22**	**4.1 J**	**28 J**
ICS-B-SE-6	6.6	**42**	20 U	4.9 U	4.9 U	**160**	4.9 U	**5.1**	**32**
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	**17 J**	18 U	**3.0 J**	4.6 U	**54**	4.6 U	**3.2 J**	**18 J**
ICS-C-SE-4	4.4	20 U	20 U	**47**	**33**	20 U	**2.8 J**	4.9 U	39 U
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	**24 J**	19 U	**3.0 J**	**15**	**41**	**76**	**9.2**	**25 J**
ICS-D-SE-4	5.3	**21 J**	20 U	5.0 U	5.0 U	**100**	5.0 U	**3.1 J**	**23 J**
ICS-D-SE-5	6.7	**76**	19 U	4.8 U	4.8 U	**170**	4.8 U	**8.0**	**44**
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	300 U	300 U	**13 J**	**11 J**	59 U	**9.5 J**	15 U	300 U
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	**38**	20 U	4.9 U	4.9 U	**120**	4.9 U	**4.5 J**	**24**
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	**13 J**	20 U	4.9 U	4.9 U	**42**	4.9 U	4.9 U	**13 J**
ICS-F-SE-8	9.7	18 U	18 U	4.6 U	4.6 U	18 U	4.6 U	4.6 U	37 U
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry
Screening Levels		**420**	na	na	(b)	**57**	(b)	**63**	**670**
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	110 U	110 U	**38 J**	**140**	110 U	29 U	29 U	230 U
ICS-G-SE-6	6.8	**18 J**	19 U	4.8 U	4.8 U	**61**	**3.2 J**	**2.6 J**	**25 J**
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	**20 J**	26 U	**210**	**1000**	26 U	**100**	**4.2 J**	51 U
ICS-H-SE-4	4.7	19 U	19 U	**10**	**24**	19 U	**7.4**	4.9 U	39 U
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	57 U	57 U	14 U	14 U	**36 J**	14 U	14 U	110 U
ICS-I-SE-4	5.9	**30**	19 U	4.8 U	4.8 U	**72**	**3.0 J**	**3.9 J**	**21**
ICS-I-SE-5	7.8	18 U	18 U	4.6 U	4.6 U	18 U	4.6 U	4.6 U	37 U
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	**20**	19 U	4.7 U	4.7 U	**37**	4.7 U	**2.9 J**	**49**
ICS-J-SE-5	8.5	**13 J**	19 U	4.7 U	4.7 U	**27**	4.7 U	**2.4 J**	**42 J_Q**
ICS-J-SE-6	10.4	**10 J**	19 U	4.8 U	4.8 U	**44**	4.8 U	4.8 U	**14 J**
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	19 U	19 U	**3.0 J**	**5.0**	19 U	**3.1 J**	4.7 U	19 U
ICS-K-SE-4	5.5	**26 J**	20 U	5.0 U	**2.7 J**	**57**	5.0 U	**3.7 J**	**34 J**
ICS-K-SE-5	7	20 U	20 U	4.9 U	4.9 U	20 U	4.9 U	4.9 U	39 U
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	**17 J**	20 U	4.9 U	4.9 U	**25**	4.9 U	**3.7 J**	**28 J**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry
Screening Levels		**420**	na	na	(b)	**57**	(b)	**63**	**670**
ICS-L-SE-4	5	**11 J**	19 U	4.8 U	4.8 U	**27**	4.8 U	**7.1**	**38 J**
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	20 U	20 U	4.9 U	4.9 U	20 U	4.9 U	4.9 U	39 U
ICS-M-SE-3	2.7	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	38 U

Notes: *U = nondetected at the associated lower reporting limit.*

J = estimate associated with value less than the verifiable lower quantitation limit.

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

J_Q = estimate; due to noncompliant CCV check.

J_B = associated value may be biased high due to contribution from laboratory background or method blank.

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).

(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)

(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).

- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	N-Nitroso-di-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry
Screening Levels		na	na	na	na	**29**	**650**	na	(b)	(b)
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	20 U	20 U	20 U	20 U	**15 J**	**620**	200 U	**6.9**	**66**
ICS-A-SE-5	5.1	19 U	19 U	19 U	19 U	**4.6 J**	**400**	190 U	4.8 U	**50**
ICS-A-SE-6	6.3	20 U	20 U	20 U	20 U	25 U	**470 J**	99 U	5.0 U	**71**
ICS-A-SE-7	7.2	19 U	19 U	19 U	19 U	24 U	**380 J**	95 U	4.8 U	**52**
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	57 U	57 U	57 U	57 U	**58**	1100 U	570 U	**66**	**360**
ICS-B-SE-4	4.4	52 U	52 U	52 U	52 U	**120**	520 U	260 U	**52**	**120**
ICS-B-SE-5	5.5	20 U	20 U	20 U	20 U	**5.4 J**	**440**	200 U	4.9 U	**57**
ICS-B-SE-6	6.6	20 U	20 U	20 U	20 U	25 U	**310 J**	98 U	4.9 U	**73**
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	18 U	18 U	18 U	18 U	**92**	**210 J**	180 U	4.6 U	**24**
ICS-C-SE-4	4.4	20 U	20 U	20 U	20 U	**22**	390 U	200 U	4.9 U	**18 J**
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	19 U	19 U	19 U	19 U	**82**	**230 J**	190 U	4.8 U	**620**
ICS-D-SE-4	5.3	20 U	20 U	20 U	20 U	**4.3 J**	**320 J**	200 U	5.0 U	**69**
ICS-D-SE-5	6.7	19 U	19 U	19 U	19 U	24 U	**540 J**	96 U	4.8 U	**77**
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	300 U	300 U	300 U	300 U	**890**	3000 U	1500 U	15 U	**17,000**
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	20 U	20 U	20 U	20 U	24 U	**230 J**	98 U	4.9 U	**72**
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	20 U	20 U	20 U	20 U	20 U	**120 J**	200 U	4.9 U	**22**
ICS-F-SE-8	9.7	18 U	18 U	18 U	18 U	18 U	370 U	180 U	4.6 U	18 U
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	N-Nitroso-di-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry
Screening Levels		na	na	na	na	**29**	**650**	na	(b)	(b)
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	110 U	110 U	110 U	110 U	**58 J**	2300 U	1100 U	29 U	**380**
ICS-G-SE-6	6.8	19 U	19 U	19 U	19 U	**4.9 J**	**170 J**	190 U	4.8 U	**84**
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	26 U	26 U	26 U	26 U	**15 J**	510 U	260 U	**36**	**190**
ICS-H-SE-4	4.7	19 U	19 U	19 U	19 U	**6.4 J**	390 U	190 U	**6.1**	**20**
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	57 U	57 U	57 U	57 U	57 U	1100 U	570 U	14 U	**86**
ICS-I-SE-4	5.9	19 U	19 U	19 U	19 U	24 U	190 U	97 U	4.8 U	**56**
ICS-I-SE-5	7.8	18 U	18 U	18 U	18 U	18 U	370 U	180 U	4.6 U	**23**
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	19 U	19 U	19 U	19 U	24 U	190 U	95 U	4.7 U	**53**
ICS-J-SE-5	8.5	19 U	19 U	19 U	19 U	**3.0 J**	**110 J**	190 U	4.7 U	**64**
ICS-J-SE-6	10.4	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.8 U	**23**
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	19 U	19 U	19 U	19 U	24 U	190 U	94 U	**3.8 J**	19 U
ICS-K-SE-4	5.5	20 U	20 U	20 U	20 U	**11 J**	**170 J**	200 U	5.0 U	**100**
ICS-K-SE-5	7	20 U	20 U	20 U	20 U	20 U	390 U	200 U	4.9 U	**83**
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	20 U	20 U	20 U	20 U	**6.4 J**	390 U	200 U	4.9 U	**160**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	N-Nitroso-di-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry
Screening Levels		na	na	na	na	**29**	**650**	na	(b)	(b)
ICS-L-SE-4	5	19 U	19 U	19 U	19 U	**3.5 J**	390 U	190 U	4.8 U	**71**
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	20 U	20 U	20 U	20 U	20 U	390 U	200 U	4.9 U	20 U
ICS-M-SE-3	2.7	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.7 U	19 U

Notes: *U = nondetected at the associated lower reporting limit.*

J = estimate associated with value less than the verifiable lower quantitation limit.

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

J_Q = estimate; due to noncompliant CCV check.

J_B = associated value may be biased high due to contribution from laboratory background or method blank.

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).

(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)

(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).

- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaph-thene µg/kg, dry	Dibenzo-furan µg/kg, dry
Screening Levels		na	(b)	na	na	na	(b)	(b)	(b)	(b)
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	98 U	**41**	98 U	98 U	20 U	20 U	20 U	**46**	**43**
ICS-A-SE-5	5.1	95 U	**34**	95 U	95 U	19 U	19 U	19 U	**21**	**30**
ICS-A-SE-6	6.3	99 U	**44**	-----	99 U	20 U	20 U	**19 J**	**27**	**39**
ICS-A-SE-7	7.2	95 U	**39**	-----	95 U	19 U	19 U	19 U	**25**	**37**
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	280 U	**260**	280 U	280 U	57 U	57 U	57 U	**910**	57 U
ICS-B-SE-4	4.4	260 U	**180**	-----	260 U	52 U	52 U	**99**	**220**	**100**
ICS-B-SE-5	5.5	97 U	**44**	97 U	97 U	20 U	20 U	20 U	**29**	**39**
ICS-B-SE-6	6.6	98 U	**48**	-----	98 U	20 U	20 U	20 U	**32**	**45**
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	92 U	**13 J**	92 U	92 U	18 U	18 U	18 U	**21**	**20**
ICS-C-SE-4	4.4	98 U	20 U	98 U	98 U	20 U	20 U	20 U	**23**	20 U
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	96 U	**520**	96 U	96 U	19 U	19 U	**19**	**34**	**33**
ICS-D-SE-4	5.3	100 U	**45**	100 U	100 U	20 U	20 U	**12 J**	**31**	**42**
ICS-D-SE-5	6.7	96 U	**63**	-----	96 U	19 U	19 U	19 U	**23**	**47**
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	1500 U	**62,000**	-----	1500 U	300 U	300 U	**900**	**980**	**1600**
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	98 U	**120**	-----	98 U	20 U	20 U	20 U	**22**	**38**
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	97 U	**20**	97 U	97 U	20 U	20 U	20 U	20 U	**14 J**
ICS-F-SE-8	9.7	92 U	18 U	92 U	92 U	18 U	18 U	18 U	18 U	18 U
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaph-thene µg/kg, dry	Dibenzo-furan µg/kg, dry
Screening Levels		na	(b)	na	na	na	(b)	(b)	(b)	(b)
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	570 U	**220**	570 U	570 U	110 U	110 U	110 U	**330**	**91 J**
ICS-G-SE-6	6.8	96 U	**40**	96 U	96 U	19 U	19 U	**34**	**34**	**35**
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	130 U	**91**	130 U	130 U	26 U	26 U	26 U	**240**	**86**
ICS-H-SE-4	4.7	97 U	19 U	97 U	97 U	19 U	19 U	19 U	19 U	19 U
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	290 U	**29 J**	290 U	290 U	57 U	57 U	**37 J**	**77**	**29 J**
ICS-I-SE-4	5.9	97 U	**19**	-----	97 U	19 U	19 U	19 U	**290**	**40**
ICS-I-SE-5	7.8	92 U	**11 J**	92 U	92 U	18 U	18 U	18 U	**520**	**23**
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	95 U	**43**	-----	95 U	19 U	19 U	**24**	**19**	**24**
ICS-J-SE-5	8.5	94 U	**17 J**	94 U	94 U	19 U	19 U	**22**	**44**	**25**
ICS-J-SE-6	10.4	96 U	**36**	96 U	96 U	19 U	19 U	19 U	**23**	**15 J**
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	94 U	**13 J**	-----	94 U	19 U	19 U	19 U	**18 J**	**17 J**
ICS-K-SE-4	5.5	100 U	**140**	100 U	100 U	20 U	20 U	20 U	**62**	**34**
ICS-K-SE-5	7	98 U	**21**	98 U	98 U	20 U	20 U	**28**	**80**	**28**
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	98 U	**39**	98 U	98 U	20 U	20 U	**51**	**66**	**48**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaph-thene µg/kg, dry	Dibenzo-furan µg/kg, dry
Screening Levels		na	(b)	na	na	na	(b)	(b)	(b)	(b)
ICS-L-SE-4	5	97 U	**38**	97 U	97 U	19 U	19 U	**22**	**23**	**32**
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	98 U	20 U	98 U	98 U	20 U	20 U	20 U	20 U	20 U
ICS-M-SE-3	2.7	94 U	19 U	94 U	94 U	19 U	19 U	19 U	19 U	19 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry
Screening Levels		na	na	(b)	na	(b)	(b)	**360**	(b)
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	98 U	98 U	49 U	20 U	**51**	20 U	**18 J**	**180**
ICS-A-SE-5	5.1	95 U	95 U	**37 J**	19 U	**33**	**11 J**	48 U	**110**
ICS-A-SE-6	6.3	99 U	99 U	**27 J**	20 U	**44**	5.0 U	20 U	**150**
ICS-A-SE-7	7.2	95 U	95 U	**24 J**	19 U	**39**	4.8 U	19 U	**130**
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	280 U	280 U	140 U	57 U	**450**	57 U	**800**	**400**
ICS-B-SE-4	4.4	260 U	260 U	**220**	52 U	**260**	13 U	52 U	**630**
ICS-B-SE-5	5.5	97 U	97 U	**60**	20 U	**45**	**6.6 J**	49 U	**140**
ICS-B-SE-6	6.6	98 U	98 U	**20 J**	20 U	**54**	4.9 U	20 U	**170**
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	92 U	92 U	46 U	18 U	**22**	**2.4 J**	46 U	**53**
ICS-C-SE-4	4.4	98 U	98 U	**51**	20 U	**13 J**	20 U	49 U	**49**
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	96 U	96 U	48 U	19 U	**51**	**6.1 J**	48 U	**130**
ICS-D-SE-4	5.3	100 U	100 U	50 U	20 U	**51**	**3.5 J**	50 U	**160**
ICS-D-SE-5	6.7	96 U	96 U	19 U	19 U	**40**	4.8 U	19 U	**140**
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	1500 U	1500 U	300 U	300 U	**5000**	15 U	59 U	**6800**
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	98 U	98 U	**35 J**	20 U	**42**	4.9 U	20 U	**130**
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	97 U	97 U	49 U	20 U	**20**	20 U	49 U	**54**
ICS-F-SE-8	9.7	92 U	92 U	**220**	18 U	18 U	18 U	46 U	**12 J**
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry
Screening Levels		na	na	(b)	na	(b)	(b)	**360**	(b)
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	570 U	570 U	290 U	110 U	**1200**	**1800**	**880 J**	**940**
ICS-G-SE-6	6.8	96 U	96 U	48 U	19 U	**52**	**9.6 J**	48 U	**170**
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	130 U	130 U	64 U	26 U	**490**	**260**	**190 J**	**800**
ICS-H-SE-4	4.7	97 U	97 U	**49**	19 U	**16 J**	**3.3 J**	49 U	**35**
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	290 U	290 U	140 U	57 U	**52 J**	**8.9 J**	140 U	**150**
ICS-I-SE-4	5.9	97 U	97 U	**80**	19 U	**59**	4.8 U	19 U	**67**
ICS-I-SE-5	7.8	92 U	92 U	46 U	18 U	**41**	**2.8 J**	46 U	**500**
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	95 U	95 U	**42 J**	19 U	**21**	4.7 U	19 U	**90**
ICS-J-SE-5	8.5	94 U	94 U	47 U	19 U	**35**	19 U	47 U	**120**
ICS-J-SE-6	10.4	96 U	96 U	48 U	19 U	**21**	19 U	48 U	**84**
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	94 U	94 U	**86**	19 U	**12 J**	4.7 U	19 U	**34**
ICS-K-SE-4	5.5	100 U	100 U	50 U	20 U	**49**	20 U	**59 J**	**100**
ICS-K-SE-5	7	98 U	98 U	49 U	20 U	**39**	20 U	49 U	**110**
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	98 U	98 U	49 U	20 U	**59**	**4.0 J**	49 U	**200**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry
Screening Levels		na	na	(b)	na	(b)	(b)	**360**	(b)
ICS-L-SE-4	5	97 U	97 U	48 U	19 U	**45**	**2.6 J**	48 U	**130**
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	98 U	98 U	**40 J**	20 U	20 U	20 U	49 U	20 U
ICS-M-SE-3	2.7	94 U	94 U	47 U	19 U	19 U	19 U	47 U	19 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry
Screening Levels		na	(b)	(b)	(b)	(b)	(b)	(b)	(b)
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	**13 J**	**45**	20 U	**200**	**160**	4.9 U	**53**	**40 J**
ICS-A-SE-5	5.1	19 U	**22**	19 U	**92**	**78**	4.8 U	**26**	**40 J**
ICS-A-SE-6	6.3	20 U	**29**	20 U	**110**	**100**	**8.2**	**30**	50 U
ICS-A-SE-7	7.2	19 U	**33**	19 U	**130**	**110**	**6.6**	**35**	48 U
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	57 U	**600**	57 U	**2200**	**2000**	**47**	**640**	**5600**
ICS-B-SE-4	4.4	52 U	**160**	52 U	**1700**	**980**	13 U	**280**	**2900**
ICS-B-SE-5	5.5	20 U	**26**	20 U	**120**	**95**	4.9 U	**29**	**66**
ICS-B-SE-6	6.6	20 U	**28**	20 U	**130**	**110**	**5.2**	**33**	**37 J**
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	18 U	**15 J**	18 U	**71**	**58**	**3.2 J**	**19**	**92**
ICS-C-SE-4	4.4	20 U	**14 J**	20 U	**83**	**86**	4.9 U	**35**	**28 J**
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	**17 J**	**39**	19 U	**240**	**200**	4.8 U	**59**	**37 J**
ICS-D-SE-4	5.3	20 U	**30**	20 U	**140**	**100**	5.0 U	**34**	**32 J**
ICS-D-SE-5	6.7	19 U	**34**	19 U	**140**	**120**	**5.0**	**39**	48 U
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	300 U	**440**	300 U	**860**	**740**	15 U	**280 J**	740 U
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	20 U	**24**	20 U	**100**	**93**	4.9 U	**29**	49 U
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	20 U	**16 J**	20 U	**74**	**62**	4.9 U	**18 J**	**32 J**
ICS-F-SE-8	9.7	18 U	18 U	18 U	**12 J**	**11 J**	4.6 U	18 U	**29 J**
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry
Screening Levels		na	(b)	(b)	(b)	(b)	(b)	(b)	(b)
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	110 U	**730**	110 U	**1600**	**4200**	**170**	**740**	**2800**
ICS-G-SE-6	6.8	**13 J**	**59**	19 U	**250**	**330**	4.8 U	**110**	**37 J**
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	26 U	**300**	**120**	**910**	**920**	**51**	**350**	**1400**
ICS-H-SE-4	4.7	19 U	19 U	19 U	**41**	**41**	4.9 U	**14 J**	**32 J**
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	**29 J**	**97**	57 U	**460**	**360**	14 U	**300**	72 U
ICS-I-SE-4	5.9	19 U	**25**	19 U	**130**	**130**	**9.5**	**42**	48 U
ICS-I-SE-5	7.8	**87**	**150**	18 U	**770**	**840**	4.6 U	**310**	**37 J**
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	19 U	**20**	19 U	**87**	**89**	**48**	**19**	47 U
ICS-J-SE-5	8.5	**12 J**	**57**	19 U	**380**	**270**	4.7 U	**94**	**25 J**
ICS-J-SE-6	10.4	**10 J**	**33**	19 U	**260**	**220**	4.8 U	**80**	24 U
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	19 U	**15 J**	19 U	**36**	**76**	**5.1**	**31**	**120**
ICS-K-SE-4	5.5	20 U	**44**	20 U	**180**	**200**	5.0 U	**54**	**46 J**
ICS-K-SE-5	7	20 U	**71**	**16 J**	**280**	**230**	4.9 U	**120**	**24 J**
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	**17 J**	**65**	20 U	**400**	**320**	4.9 U	**91**	25 U

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry
Screening Levels		na	(b)	(b)	(b)	(b)	(b)	(b)	(b)
ICS-L-SE-4	5	**11 J**	**37**	19 U	**180**	**150**	4.8 U	**40**	24 U
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	20 U	20 U	20 U	**26**	**26**	4.9 U	20 U	**41 J**
ICS-M-SE-3	2.7	19 U	19 U	19 U	19 U	19 U	4.7 U	19 U	**24 J**

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
Screening Levels		(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	**65**	20 U	**78**	**53**	**23**	20 U	**30**	388	662
ICS-A-SE-5	5.1	**38**	19 U	**43**	19 U	**12 J**	19 U	**19**	236	308
ICS-A-SE-6	6.3	**47**	20 U	**56**	20 U	**20**	20 U	**31**	321	394
ICS-A-SE-7	7.2	**47**	19 U	**59**	19 U	**18 J**	19 U	**24**	279	423
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	**1100**	57 U	**930**	**480**	**120**	**57**	**140**	2720	7667
ICS-B-SE-4	4.4	**480**	52 U	**460**	**200**	**83**	52 U	**83**	1390	4266
ICS-B-SE-5	5.5	**43**	20 U	**48**	20 U	20 U	20 U	**20**	297	355
ICS-B-SE-6	6.6	**45**	20 U	**56**	20 U	**17 J**	20 U	**25**	357	416
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	**22**	18 U	**30 J**	18 U	18 U	18 U	**12 J**	135	212
ICS-C-SE-4	4.4	**36**	20 U	**48**	**31**	**14 J**	20 U	**18 J**	117	351
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	**75**	19 U	**100**	**48**	**27**	**10 J**	**34**	893	793
ICS-D-SE-4	5.3	**44**	20 U	**48**	20 U	**13 J**	20 U	**18 J**	322	397
ICS-D-SE-5	6.7	**50**	19 U	**66**	19 U	**18 J**	19 U	**23**	314	456
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	**410**	300 U	**410 J**	**220 J**	300 U	300 U	300 U	30220	2920
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	**37**	20 U	**51**	20 U	**15 J**	20 U	**20**	290	345
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	**26**	20 U	**16 J**	20 U	**14 J**	20 U	**16 J**	112	226
ICS-F-SE-8	9.7	18 U	18 U	37 U	18 U	18 U	18 U	18 U	18 U	23
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
Screening Levels		(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	**1800**	110 U	**890**	110 U	**140**	110 U	**180**	3580	9550
ICS-G-SE-6	6.8	**130**	19 U	**180**	**110**	**45**	**16 J**	**56**	433	1227
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	**490**	26 U	**490**	**260**	**68**	**26**	**67**	2020	3581
ICS-H-SE-4	4.7	**15 J**	19 U	**20 J**	19 U	19 U	19 U	19 U	71	131
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	**540**	57 U	**780**	**360**	**180**	**63**	**210**	499	3253
ICS-I-SE-4	5.9	**45**	19 U	**80**	19 U	**18 J**	19 U	**22**	497	467
ICS-I-SE-5	7.8	**350**	18 U	**470**	**360**	**170**	**73**	**220**	1234	3563
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	**23**	19 U	**34 J**	19 U	19 U	19 U	**10 J**	227	262
ICS-J-SE-5	8.5	**160**	19 U	**140**	**72**	**36**	**11 J**	**34**	342	1197
ICS-J-SE-6	10.4	**78**	19 U	**120**	**64**	**34**	**16 J**	**42**	184	914
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	**67**	19 U	**56**	**22**	19 U	19 U	19 U	79	288
ICS-K-SE-4	5.5	**79**	20 U	**90**	**38**	**28**	20 U	**32**	355	701
ICS-K-SE-5	7	**170**	20 U	**210**	**110**	**49**	**17 J**	**65**	411	1251
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	**120**	20 U	**160**	**93**	**50**	**21**	**56**	601	1311

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
Screening Levels		(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
ICS-L-SE-4	5	**50**	19 U	**67**	19 U	**21**	19 U	**32**	328	540
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	**14 J**	20 U	**25 J**	**9.8 J**	20 U	20 U	20 U	20 U	101
ICS-M-SE-3	2.7	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	19 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Tributyltin ion µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry
Screening Levels		na	na	na	na	na	na	na	na	na
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U
ICS-A-SE-5	5.1	-----	0.48 U	1.2 U	1.4 U	0.48 U	0.48 U	0.62 U	0.96 U	0.48 U
ICS-A-SE-6	6.3	-----	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U
ICS-A-SE-7	7.2	-----	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.77 U	0.96 U	0.48 U
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	-----	25 U	120 U	25 U	25 U	100 U	190 U	340 U	25 U
ICS-B-SE-4	4.4	-----	39 U	250 U	39 U	110 U	110 U	39 U	110 U	39 U
ICS-B-SE-5	5.5	-----	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	4.9 U	2.5 U
ICS-B-SE-6	6.6	-----	0.50 U	1.1 U	1.3 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U
ICS-C-SE-4	4.4	-----	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U
ICS-D-SE-4	5.3	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U
ICS-D-SE-5	6.7	-----	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	-----	5.1 U	14 U	7.4 U	5.9 U	7.2 U	4.1 U	12 U	6.6 U
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	-----	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U
ICS-F-SE-8	9.7	-----	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Tributyltin ion µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry
Screening Levels		na	na	na	na	na	na	na	na	na
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	-----	24 U	24 U	24 U	24 U	36 U	24 U	120 U	24 U
ICS-G-SE-6	6.8	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	-----	36 U	36 U	36 U	36 U	100 U	340 U	390 U	36 U
ICS-H-SE-4	4.7	-----	0.47 U	0.47 U	0.47 U	1.5 U	4.2 U	8.9 U	4.8 U	0.47 U
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	-----	2.4 U	3.7 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U
ICS-I-SE-4	5.9	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	6.3 U	11 U	2.4 U
ICS-I-SE-5	7.8	-----	0.48 U	1.0 U	0.48 U	0.48 U	0.98 U	1.1 U	2.2 U	0.48 U
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	-----	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	1.0 U	0.50 U
ICS-J-SE-5	8.5	-----	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U
ICS-J-SE-6	10.4	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	**59**	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	-----	2.4 U	4.4 U	2.4 U	2.4 U	4.1 U	2.4 U	25 U	2.4 U
ICS-K-SE-4	5.5	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U
ICS-K-SE-5	7	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	3.7 U	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	-----	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Tributyltin ion µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry
Screening Levels		na	na	na	na	na	na	na	na	na
ICS-L-SE-4	5	-----	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	-----	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	7.9 U	2.5 U
ICS-M-SE-3	2.7	-----	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxychlor µg/kg, dry	Endrin ketone µg/kg, dry
Screening Levels		na	na	na	na	na	na	na	na	na
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	5.8 U	24 U	4.7 U
ICS-A-SE-5	5.1	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-A-SE-6	6.3	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	1.3 U	4.8 U	0.96 U
ICS-A-SE-7	7.2	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	430 U	**870 J**	120 U	210 U	640 U	140 U	990 U	250 U	50 U
ICS-B-SE-4	4.4	78 U	52 U	550 U	78 U	52 U	78 U	52 U	390 U	510 U
ICS-B-SE-5	5.5	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	25 U	4.9 U
ICS-B-SE-6	6.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6 U	5.0 U	1.0 U
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-3	3.3	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	24 U	4.7 U
ICS-C-SE-4	4.4	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-3	3.8	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U
ICS-D-SE-4	5.3	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	24 U	4.8 U
ICS-D-SE-5	6.7	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	6.7 U	13 U	4.8 U	4.8 U	4.8 U	4.8 U	6.4 U	24 U	4.8 U
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	24 U	4.7 U
ICS-F-SE-8	9.7	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxychlor µg/kg, dry	Endrin ketone µg/kg, dry
Screening Levels		na	na	na	na	na	na	na	na	na
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	48 U	**480**	48 U	48 U	**870**	48 U	290 U	240 U	79 U
ICS-G-SE-6	6.8	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-3	3.3	410 U	**650 J**	210 U	71 U	640 U	71 U	1100 U	360 U	220 U
ICS-H-SE-4	4.7	2.2 U	**24**	0.94 U	1.3 U	**16**	0.94 U	3.6 U	4.7 U	0.94 U
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-3	4.2	4.9 U	**29**	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U
ICS-I-SE-4	5.9	4.9 U	**53 J**	4.9 U	4.9 U	**6.8**	4.9 U	9.7 U	24 U	4.9 U
ICS-I-SE-5	7.8	0.96 U	**31 J**	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-4	6.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	4.1 U
ICS-J-SE-5	8.5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U
ICS-J-SE-6	10.4	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-3	3.8	4.7 U	**56 J**	4.7 U	4.7 U	**29 J**	4.7 U	33 U	24 U	25 U
ICS-K-SE-4	5.5	4.8 U	**41**	4.8 U	4.8 U	**27**	4.8 U	4.8 U	24 U	4.8 U
ICS-K-SE-5	7	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	24 U	4.7 U
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-3	3.5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxychlor µg/kg, dry	Endrin ketone µg/kg, dry
Screening Levels		na	na	na	na	na	na	na	na	na
ICS-L-SE-4	5	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	24 U	4.8 U
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-2	1.6	4.9 U	**11 J**	4.9 U	4.9 U	4.9 U	4.9 U	16 U	25 U	4.9 U
ICS-M-SE-3	2.7	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Endrin aldehyde µg/kg, dry	*trans* - Chlordane µg/kg, dry	*cis* - Chlordane µg/kg, dry	Toxaphene µg/kg, dry	Hexachloro-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry
Screening Levels		na	na	na	na	(b)	(b)	-----	-----	-----	-----	-----
ICS-A-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-2	1.3	-----	-----	-----	-----	-----	-----	75 U	75 U	**810**	**870**	**690**
ICS-A-SE-3	2.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-A-SE-4	3.9	4.7 U	2.4 U	2.4 U	470 U	4.7 U	4.7 U	3.8 U	3.8 U	**42**	**31**	**26**
ICS-A-SE-5	5.1	0.96 U	0.48 U	0.48 U	96 U	0.96 U	0.96 U	3.8 U	3.8 U	**12**	**7.8**	**7.3**
ICS-A-SE-6	6.3	0.96 U	0.94 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	4.8 U	3.8 U	3.8 U
ICS-A-SE-7	7.2	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	6.3 U	3.8 U	3.8 U
ICS-B-SE-1	1.1	-----	-----	-----	-----	-----	-----	37 U	37 U	**170**	**140**	**120**
ICS-B-SE-2	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-B-SE-3	3.3	50 U	300 U	25 U	5000 U	57 U	50 U	400 U	400 U	**9600**	**11,000**	**8600**
ICS-B-SE-4	4.4	78 U	39 U	39 U	2700 U	130 U	78 U	1500 U	1500 U	**23,000**	**12,000**	**9100**
ICS-B-SE-5	5.5	4.9 U	2.5 U	2.5 U	490 U	4.9 U	4.9 U	3.9 U	**50**	3.9 U	**24**	**23**
ICS-B-SE-6	6.6	1.0 U	2.1 U	0.50 U	25 U	1.0 U	1.0 U	4.0 U	4.0 U	5.6 U	4.0 U	4.0 U
ICS-C-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-C-SE-2	2.3	-----	-----	-----	-----	-----	-----	3.6 U	3.6 U	**18**	**21**	**16**
ICS-C-SE-3	3.3	4.7 U	2.4 U	2.4 U	470 U	4.7 U	4.7 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-C-SE-4	4.4	0.94 U	0.47 U	0.47 U	94 U	0.94 U	0.94 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
ICS-D-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-D-SE-2	2.1	-----	-----	-----	-----	-----	-----	200 U	200 U	**6200**	**7700**	**3100**
ICS-D-SE-3	3.8	4.9 U	2.4 U	2.4 U	490 U	4.9 U	4.9 U	3.9 U	3.9 U	**27**	**30**	**10**
ICS-D-SE-4	5.3	4.8 U	2.4 U	2.4 U	480 U	4.8 U	4.8 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-D-SE-5	6.7	0.97 U	0.88 U	0.49 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-F-SE-1	0.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-2	1.7	7.3 U	3.2 U	2.4 U	120 U	4.8 U	4.8 U	3.8 U	3.8 U	130 U	**160**	**170**
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-4	4.5	0.99 U	0.50 U	0.50 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-F-SE-5	5.8	-----	-----	-----	-----	-----	-----	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-F-SE-6	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-F-SE-7	8.3	4.7 U	2.4 U	2.4 U	470 U	4.7 U	4.7 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-F-SE-8	9.7	0.92 U	0.46 U	0.46 U	92 U	0.92 U	0.92 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-F-SE-9	10.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Endrin aldehyde µg/kg, dry	*trans* - Chlordane µg/kg, dry	*cis* - Chlordane µg/kg, dry	Toxaphene µg/kg, dry	Hexachloro-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry
Screening Levels		na	na	na	na	(b)	(b)	-----	-----	-----	-----	-----
ICS-G-SE-1	0.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-3	3	-----	-----	-----	-----	-----	-----	39 U	39 U	**610**	**670**	**270**
ICS-DUP1-SE	dup. of G-SE-3	-----	-----	-----	-----	-----	-----	38 U	38 U	**390**	**440**	**210**
ICS-G-SE-4	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-G-SE-5	5.1	48 U	92 U	24 U	4800 U	48 U	48 U	78 U	78 U	**3600**	**3600**	**2800**
ICS-G-SE-6	6.8	4.9 U	2.4 U	2.4 U	490 U	4.9 U	4.9 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-H-SE-1	0.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-H-SE-2	1.7	-----	-----	-----	-----	-----	-----	170 U	170 U	**7400**	**4900**	**5800**
ICS-H-SE-3	3.3	71 U	36 U	36 U	7100 U	71 U	71 U	580 U	580 U	**13,000**	**16,000**	**9100**
ICS-H-SE-4	4.7	0.94 U	2.5 U	0.47 U	94 U	0.94 U	0.94 U	18 U	**260**	18 U	93 U	18 U
ICS-I-SE-1	0.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-I-SE-2	2.6	-----	-----	-----	-----	-----	-----	140 U	140 U	**5100**	**6000**	**1900**
ICS-I-SE-3	4.2	4.9 U	2.4 U	2.4 U	490 U	4.9 U	4.9 U	3.9 U	3.9 U	**170**	**160**	**65**
ICS-I-SE-4	5.9	4.9 U	10 U	2.4 U	120 U	4.9 U	4.9 U	3.9 U	3.9 U	**70**	**46**	**27**
ICS-I-SE-5	7.8	0.96 U	0.48 U	0.48 U	96 U	0.96 U	0.96 U	3.8 U	**36**	3.8 U	19 U	**5.6**
ICS-I-SE-6	9.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-J-SE-3	4.9	-----	-----	-----	-----	-----	-----	3.8 U	3.8 U	**47**	**110**	**180**
ICS-J-SE-4	6.8	1.0 U	1.5 U	0.50 U	25 U	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-J-SE-5	8.5	5.0 U	2.5 U	2.5 U	500 U	5.0 U	5.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-J-SE-6	10.4	4.9 U	2.4 U	2.4 U	490 U	4.9 U	4.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-K-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-K-SE-2	2.2	-----	-----	-----	-----	-----	-----	170 U	170 U	**5000**	**5100**	**2900**
ICS-DUP2-SE	dup. of K-SE-2	-----	-----	-----	-----	-----	-----	220 U	220 U	**6700**	**6500**	**3400**
ICS-K-SE-3	3.8	4.7 U	14 U	2.4 U	120 U	4.7 U	4.7 U	38 U	38 U	**760**	**590**	**260**
ICS-K-SE-4	5.5	4.8 U	2.4 U	2.4 U	480 U	4.8 U	4.8 U	3.8 U	3.8 U	**22**	76 U	**81**
ICS-K-SE-5	7	4.7 U	2.4 U	2.4 U	470 U	4.7 U	4.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-L-SE-1	0.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-L-SE-2	1.9	-----	-----	-----	-----	-----	-----	38 U	38 U	**910**	**880**	**520**
ICS-L-SE-3	3.5	5.0 U	2.5 U	2.5 U	500 U	5.0 U	5.0 U	4.0 U	4.0 U	**8.0**	**9.2**	**6.0**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	Endrin aldehyde µg/kg, dry	*trans* - Chlordane µg/kg, dry	*cis* - Chlordane µg/kg, dry	Toxaphene µg/kg, dry	Hexachloro-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry
Screening Levels		na	na	na	na	(b)	(b)	-----	-----	-----	-----	-----
ICS-L-SE-4	5	4.8 U	2.4 U	2.4 U	480 U	4.8 U	4.8 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-L-SE-5	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-M-SE-1	0.6	-----	-----	-----	-----	-----	-----	37 U	37 U	**370**	**360**	**380**
ICS-M-SE-2	1.6	4.9 U	2.5 U	2.5 U	490 U	4.9 U	4.9 U	3.8 U	3.8 U	**98**	**120**	**94**
ICS-M-SE-3	2.7	0.95 U	0.48 U	0.48 U	95 U	0.95 U	0.95 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Detected total PCBs µg/kg, dry
Screening Levels		-----	-----	2
ICS-A-SE-1	0.4	-----	-----	-----
ICS-A-SE-2	1.3	75 U	75 U	**2370**
ICS-A-SE-3	2.7	-----	-----	-----
ICS-A-SE-4	3.9	3.8 U	3.8 U	**99**
ICS-A-SE-5	5.1	3.8 U	3.8 U	**27.1**
ICS-A-SE-6	6.3	3.8 U	3.8 U	4.8 U
ICS-A-SE-7	7.2	3.8 U	3.8 U	6.3 U
ICS-B-SE-1	1.1	37 U	37 U	**430**
ICS-B-SE-2	2.2	-----	-----	-----
ICS-B-SE-3	3.3	400 U	400 U	**29,200**
ICS-B-SE-4	4.4	1500 U	1500 U	44,100
ICS-B-SE-5	5.5	3.9 U	3.9 U	**97**
ICS-B-SE-6	6.6	4.0 U	4.0 U	5.6 U
ICS-C-SE-1	0.5	-----	-----	-----
ICS-C-SE-2	2.3	3.6 U	3.6 U	**55**
ICS-C-SE-3	3.3	3.8 U	3.8 U	3.8 U
ICS-C-SE-4	4.4	3.6 U	3.6 U	3.6 U
ICS-D-SE-1	0.7	-----	-----	-----
ICS-D-SE-2	2.1	200 U	200 U	**17,000**
ICS-D-SE-3	3.8	3.9 U	3.9 U	**67**
ICS-D-SE-4	5.3	3.9 U	3.9 U	3.9 U
ICS-D-SE-5	6.7	3.9 U	3.9 U	3.9 U
ICS-F-SE-1	0.5	-----	-----	-----
ICS-F-SE-2	1.7	3.8 U	3.8 U	330
ICS-F-SE-3	3.1	-----	-----	-----
ICS-F-SE-3	3.1	-----	-----	-----
ICS-F-SE-4	4.5	4.0 U	4.0 U	4.0 U
ICS-F-SE-5	5.8	4.0 U	4.0 U	4.0 U
ICS-F-SE-6	7	-----	-----	-----
ICS-F-SE-7	8.3	3.9 U	3.9 U	3.9 U
ICS-F-SE-8	9.7	3.7 U	3.7 U	3.7 U
ICS-F-SE-9	10.9	-----	-----	-----

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Detected total PCBs µg/kg, dry
Screening Levels		-----	-----	2
ICS-G-SE-1	0.6	-----	-----	-----
ICS-G-SE-2	1.8	-----	-----	-----
ICS-G-SE-3	3	39 U	39 U	**1550**
ICS-DUP1-SE	dup. of G-SE-3	38 U	38 U	**1040**
ICS-G-SE-4	4.1	-----	-----	-----
ICS-G-SE-5	5.1	78 U	78 U	**10,000**
ICS-G-SE-6	6.8	4.0 U	4.0 U	4.0 U
ICS-H-SE-1	0.4	-----	-----	-----
ICS-H-SE-2	1.7	170 U	170 U	**18,100**
ICS-H-SE-3	3.3	580 U	580 U	**38,100**
ICS-H-SE-4	4.7	18 U	18 U	**260**
ICS-I-SE-1	0.9	-----	-----	-----
ICS-I-SE-2	2.6	140 U	140 U	**13,000**
ICS-I-SE-3	4.2	3.9 U	3.9 U	**395**
ICS-I-SE-4	5.9	3.9 U	3.9 U	143
ICS-I-SE-5	7.8	3.8 U	3.8 U	**42**
ICS-I-SE-6	9.5	-----	-----	-----
ICS-J-SE-1	0.8	-----	-----	-----
ICS-J-SE-2	2.6	-----	-----	-----
ICS-J-SE-3	4.9	3.8 U	3.8 U	**337**
ICS-J-SE-4	6.8	4.0 U	4.0 U	4.0 U
ICS-J-SE-5	8.5	3.8 U	3.8 U	3.8 U
ICS-J-SE-6	10.4	3.9 U	3.9 U	3.9 U
ICS-K-SE-1	0.7	-----	-----	-----
ICS-K-SE-2	2.2	170 U	170 U	**13,000**
ICS-DUP2-SE	dup. of K-SE-2	220 U	220 U	**16,600**
ICS-K-SE-3	3.8	38 U	38 U	1610
ICS-K-SE-4	5.5	3.8 U	3.8 U	**103**
ICS-K-SE-5	7	3.7 U	3.7 U	3.7 U
ICS-L-SE-1	0.7	-----	-----	-----
ICS-L-SE-2	1.9	38 U	38 U	**2310**
ICS-L-SE-3	3.5	4.0 U	4.0 U	**23**

TABLE F.4a - Results of Subsurface Sediment Sample Analyses - 2012

Core Location	Mid-Point Depth (feet)	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Detected total PCBs µg/kg, dry
Screening Levels		-----	-----	2
ICS-L-SE-4	5	3.9 U	3.9 U	3.9 U
ICS-L-SE-5	6.7	-----	-----	-----
ICS-M-SE-1	0.6	37 U	37 U	**1110**
ICS-M-SE-2	1.6	3.8 U	3.8 U	**312**
ICS-M-SE-3	2.7	3.7 U	3.7 U	3.7 U

Notes:
U = nondetected at the associated lower reporting limit.
J = estimate associated with value less than the verifiable lower quantitation limit.
J_R = estimate; due to low matrix spike recovery. Value likely biased low.
J_Q = estimate; due to noncompliant CCV check.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
grain size analyses: % retained in each size fraction
(a) - SMS-SQS - Sediment Management Standards - Sediment Quality Standard (for those with dry weight criteria)
(b) - SMS-SQS - Criteria carbon-normalized (see Table XX).
- Value exceeds SMS-SQS (based on dry weight criteria)
grain size analyses: % retained in each size fraction

TABLE F.4b - BaPEq-TEQ Calculations -Embayment Subsurface Sediments - 2012 Data

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry
ICS-A-SE-1	0.4	VV01	-----		-----		-----		-----
ICS-A-SE-2	1.3	VV01	-----		-----		-----		-----
ICS-A-SE-3	2.7	VV01	-----		-----		-----		-----
ICS-A-SE-4	3.9	VV01	**53**	**5.3**	**65**	**0.65**	**78**	**7.8**	**53**
ICS-A-SE-5	5.1	VV01	**26**	**2.6**	**38**	**0.38**	**43**	**4.3**	19 U
ICS-A-SE-6	6.3	XD56	**30**	**3**	**47**	**0.47**	**56**	**5.6**	20 U
ICS-A-SE-7	7.2	XD56	**35**	**3.5**	**47**	**0.47**	**59**	**5.9**	19 U
ICS-B-SE-1	1.1	VV01	-----		-----		-----		-----
ICS-B-SE-2	2.2	VV01	-----		-----		-----		-----
ICS-B-SE-3	3.3	VV01	**640**	**64**	**1100**	**11**	**930**	**93**	**480**
ICS-B-SE-4	4.4	XD56	**280**	**28**	**480**	**4.8**	**460**	**46**	**200**
ICS-B-SE-5	5.5	VV01	**29**	**2.9**	**43**	**0.43**	**48**	**4.8**	20 U
ICS-B-SE-6	6.6	XD56	**33**	**3.3**	**45**	**0.45**	**56**	**5.6**	20 U
ICS-C-SE-1	0.5	VV01	-----		-----		-----		-----
ICS-C-SE-2	2.3	VV01	-----		-----		-----		-----
ICS-C-SE-3	3.3	VV01	**19**	**1.9**	**22**		**30 J**	**3**	18 U
ICS-C-SE-4	4.4	VV01	**35**	**3.5**	**36**		**48**	**4.8**	**31**
ICS-D-SE-1	0.7	VV01	-----		-----		-----		-----
ICS-D-SE-2	2.1	VV01	-----		-----		-----		-----
ICS-D-SE-3	3.8	VV01	**59**	**5.9**	**75**	**0.75**	**100**	**10**	**48**
ICS-D-SE-4	5.3	VV01	**34**	**3.4**	**44**	**0.44**	**48**	**4.8**	20 U
ICS-D-SE-5	6.7	XD56	**39**	**3.9**	**50**	**0.5**	**66**	**6.6**	19 U
ICS-F-SE-1	0.5	VV01	-----		-----		-----		-----
ICS-F-SE-2	1.7	XD56	**280 J**	**28**	**410**	**4.1**	**410 J**	**41**	**220 J**
ICS-F-SE-3	3.1	VV01	-----		-----		-----		-----
ICS-F-SE-3	3.1	VV01	-----		-----		-----		-----
ICS-F-SE-4	4.5	XD56	**29**	**2.9**	**37**	**0.37**	**51**	**5.1**	20 U
ICS-F-SE-5	5.8	VV01	-----		-----		-----		-----
ICS-F-SE-6	7	VV01	-----		-----		-----		-----
ICS-F-SE-7	8.3	VV01	**18 J**	**1.8**	**26**	**0.26**	**16 J**	**1.6**	20 U
ICS-F-SE-8	9.7	VV01	18 U		18 U		37 U		18 U
ICS-F-SE-9	10.9	VV01	-----		-----		-----		-----

TABLE F.4b - BaPEq-TEQ Calculations -Embayment Subsurface Sediments - 2012 Data

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry
ICS-G-SE-1	0.6	VV01	-----		-----		-----		-----
ICS-G-SE-2	1.8	VV01	-----		-----		-----		-----
ICS-G-SE-3	3	VV01	-----		-----		-----		-----
ICS-G-SE-4	4.1	VV01	-----		-----		-----		-----
ICS-G-SE-5	5.1	VV01	**740**	**74**	**1800**	**18**	**890**	**89**	110 U
ICS-G-SE-6	6.8	VV01	**110**	**11**	**130**	**1.3**	**180**	**18**	**110**
ICS-H-SE-1	0.4	VV01	-----		-----		-----		-----
ICS-H-SE-2	1.7	VV01	-----		-----		-----		-----
ICS-H-SE-3	3.3	VV01	**350**	**35**	**490**	**4.9**	**490**	**49**	**260**
ICS-H-SE-4	4.7	VV10	**14 J**	**1.4**	**15 J**	**0.15**	**20 J**	**2**	19 U
ICS-I-SE-1	0.9	VV10	-----		-----		-----		-----
ICS-I-SE-2	2.6	VV10	-----		-----		-----		-----
ICS-I-SE-3	4.2	VV10	**300**	**30**	**540**	**5.4**	**780**	**78**	**360**
ICS-I-SE-4	5.9	XD56	**42**	**4.2**	**45**	**0.45**	**80**	**8**	19 U
ICS-I-SE-5	7.8	VV10	**310**	**31**	**350**	**3.5**	**470**	**47**	**360**
ICS-I-SE-6	9.5	VV10	-----		-----		-----		-----
ICS-J-SE-1	0.8	VV10	-----		-----		-----		-----
ICS-J-SE-2	2.6	VV10	-----		-----		-----		-----
ICS-J-SE-3	4.9	VV10	-----		-----		-----		-----
ICS-J-SE-4	6.8	XD56	**19**	**1.9**	**23**	**0.23**	**34 J**	**3.4**	19 U
ICS-J-SE-5	8.5	VV10	**94**	**9.4**	**160**	**1.6**	**140**	**14**	**72**
ICS-J-SE-6	10.4	VV10	**80**	**8**	**78**	**0.78**	**120**	**12**	**64**
ICS-K-SE-1	0.7	VV10	-----		-----		-----		-----
ICS-K-SE-2	2.2	VV10	-----		-----		-----		-----
ICS-K-SE-3	3.8	XD56	**31**	**3.1**	**67**	**0.67**	**56**	**5.6**	**22**
ICS-K-SE-4	5.5	VV10	**54**	**5.4**	**79**	**0.79**	**90**	**9**	**38**
ICS-K-SE-5	7	VV10	**120**	**12**	**170**	**1.7**	**210**	**21**	**110**
ICS-L-SE-1	0.7	VV10	-----		-----		-----		-----
ICS-L-SE-2	1.9	VV10	-----		-----		-----		-----
ICS-L-SE-3	3.5	VV10	**91**	**9.1**	**120**	**1.2**	**160**	**16**	**93**
ICS-L-SE-4	5	VV10	**40**	**4**	**50**	**0.5**	**67**	**6.7**	19 U
ICS-L-SE-5	6.7	VV10	-----		-----		-----		-----

TABLE F.4b - BaPEq-TEQ Calculations -Embayment Subsurface Sediments - 2012 Data

ICS/NW Cooperage Site
Seattle, Washington

Core Location	Mid-Point Depth (feet)	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry
ICS-M-SE-1	0.6	VV10	-----		-----		-----		-----
ICS-M-SE-2	1.6	VV10	20 U		**14 J**	**0.14**	**25 J**	**2.5**	**9.8 J**
ICS-M-SE-3	2.7	VV10	19 U		19 U		38 U		19 U
ICS-DUP	G-SE3	VV01	-----		-----		-----		-----
ICS-DUP	K-SE2	VV10	-----		-----		-----		-----
No. Spls.			**34**		**34**		**34**		**34**
No. Detects			**31**		**30**		**32**		**17**
%Detects			**91.2%**		**88.2%**		**94.1%**		**50.0%**
Maximum			**740**		**1800**		**930**		**480**

Notes: *U = nondetected at the associated lower reporting limit.*
J = Estimated concentration
TEF -Toxicity Equivalency Factor
TEQ - Toxicity Equivalency Quotient
BaPEq. - Benzo(a)pyrene equivalent concentration

TABLE F.4b - BaPEq-TEQ Calculations -Embayment Subsurface Sediments - 2012 Data

Core Location	Mid-Point Depth (feet)	Adjusted Conc. TEF=1.0	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	**TEQ Sum BaPEq µg/kg, dry**
ICS-A-SE-1	0.4		-----		-----		-----
ICS-A-SE-2	1.3		-----		-----		-----
ICS-A-SE-3	2.7		-----		-----		-----
ICS-A-SE-4	3.9	**53**	**23**	**2.3**	20 U		**69**
ICS-A-SE-5	5.1		**12 J**	**1.2**	19 U		**8.5**
ICS-A-SE-6	6.3		**20**	**2**	20 U		**11**
ICS-A-SE-7	7.2		**18 J**	**1.8**	19 U		**12**
ICS-B-SE-1	1.1		-----		-----		-----
ICS-B-SE-2	2.2		-----		-----		-----
ICS-B-SE-3	3.3	**480**	**120**	**12**	**57**	**57**	**717**
ICS-B-SE-4	4.4	**200**	**83**	**8.3**	52 U		**287**
ICS-B-SE-5	5.5		20 U		20 U		**8**
ICS-B-SE-6	6.6		**17 J**	**1.7**	20 U		**11**
ICS-C-SE-1	0.5		-----		-----		-----
ICS-C-SE-2	2.3		-----		-----		-----
ICS-C-SE-3	3.3		18 U		18 U		**5**
ICS-C-SE-4	4.4	**31**	**14 J**	**1.4**	20 U		**41**
ICS-D-SE-1	0.7		-----		-----		-----
ICS-D-SE-2	2.1		-----		-----		-----
ICS-D-SE-3	3.8	**48**	**27**	**2.7**	**10 J**	**10**	**77**
ICS-D-SE-4	5.3		**13 J**	**1.3**	20 U		**10**
ICS-D-SE-5	6.7		**18 J**	**1.8**	19 U		**13**
ICS-F-SE-1	0.5		-----		-----		-----
ICS-F-SE-2	1.7	**220**	300 U		300 U		**293**
ICS-F-SE-3	3.1		-----		-----		-----
ICS-F-SE-3	3.1		-----		-----		-----
ICS-F-SE-4	4.5		**15 J**	**1.5**	20 U		**10**
ICS-F-SE-5	5.8		-----		-----		-----
ICS-F-SE-6	7		-----		-----		-----
ICS-F-SE-7	8.3		**14 J**	**1.4**	20 U		**5**
ICS-F-SE-8	9.7		18 U		18 U		**0**
ICS-F-SE-9	10.9		-----		-----		-----

TABLE F.4b - BaPEq-TEQ Calculations -Embayment Subsurface Sediments - 2012 Data

Core Location	Mid-Point Depth (feet)	Adjusted Conc. TEF=1.0	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	**TEQ Sum BaPEq µg/kg, dry**
ICS-G-SE-1	0.6		-----		-----		-----
ICS-G-SE-2	1.8		-----		-----		-----
ICS-G-SE-3	3		-----		-----		-----
ICS-G-SE-4	4.1		-----		-----		-----
ICS-G-SE-5	5.1		**140**	**14**	110 U		**195**
ICS-G-SE-6	6.8	**110**	**45**	**4.5**	**16 J**	**16**	**161**
ICS-H-SE-1	0.4		-----		-----		-----
ICS-H-SE-2	1.7		-----		-----		-----
ICS-H-SE-3	3.3	**260**	**68**	**6.8**	**26**	**26**	**382**
ICS-H-SE-4	4.7		19 U		19 U		**4**
ICS-I-SE-1	0.9		-----		-----		-----
ICS-I-SE-2	2.6		-----		-----		-----
ICS-I-SE-3	4.2	**360**	**180**	**18**	**63**	**63**	**554**
ICS-I-SE-4	5.9		**18 J**	**1.8**	19 U		**14**
ICS-I-SE-5	7.8	**360**	**170**	**17**	**73**	**73**	**532**
ICS-I-SE-6	9.5		-----		-----		-----
ICS-J-SE-1	0.8		-----		-----		-----
ICS-J-SE-2	2.6		-----		-----		-----
ICS-J-SE-3	4.9		-----		-----		-----
ICS-J-SE-4	6.8		19 U		19 U		**6**
ICS-J-SE-5	8.5	**72**	**36**	**3.6**	**11 J**	**11**	**112**
ICS-J-SE-6	10.4	**64**	**34**	**3.4**	**16 J**	**16**	**104**
ICS-K-SE-1	0.7		-----		-----		-----
ICS-K-SE-2	2.2		-----		-----		-----
ICS-K-SE-3	3.8	**22**	19 U		19 U		**31**
ICS-K-SE-4	5.5	**38**	**28**	**2.8**	20 U		**56**
ICS-K-SE-5	7	**110**	**49**	**4.9**	**17 J**	**17**	**167**
ICS-L-SE-1	0.7		-----		-----		-----
ICS-L-SE-2	1.9		-----		-----		-----
ICS-L-SE-3	3.5	**93**	**50**	**5**	**21**	**21**	**145**
ICS-L-SE-4	5		**21**	**2.1**	19 U		**13**
ICS-L-SE-5	6.7		-----		-----		-----

TABLE F.4b - BaPEq-TEQ Calculations -Embayment Subsurface Sediments - 2012 Data

Core Location	Mid-Point Depth (feet)	Adjusted Conc. TEF=1.0	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	**TEQ Sum BaPEq µg/kg, dry**
ICS-M-SE-1	0.6		-----		-----		-----
ICS-M-SE-2	1.6	**9.8**	20 U		20 U		**12**
ICS-M-SE-3	2.7		19 U		19 U		**nd**
ICS-DUP	G-SE3		-----		-----		-----
ICS-DUP	K-SE2		-----		-----		-----
No. Spls.			**34**		**34**		**34**
No. Detects			**25**		**10**		**33**
%Detects			**73.5%**		**29.4%**		**97.1%**
Maximum			**300**		**300**		**717**

Notes: *U = nondetected at the associated lower reporting limit.*
J = Estimated concentration
TEF -Toxicity Equivalency Factor
TEQ - Toxicity Equivalency Quotient
BaPEq. - Benzo(a)pyrene equivalent concentration

TABLE F.5 - LDW-SC40 Core Sediment Data

Location	LDW-SC40	LDW-SC40	LDW-SC40
Date	Feb-06	Feb-06	Feb-06
Source	(a)	(a)	(a)
Coordinate X	1270303	1270303	1270303
Coordinate Y	200332	200332	200332
Depth (feet))	0 to 1.3	1.3-2	2-4
Units	(mg/kg)	(mg/kg)	(mg/kg)
Total Solids (%)	73.2	80.6	81.95
Total Organic Carbon (%)	0.747	0.328	0.211
Total Metals			
Antimony	<7	<6	<6
Arsenic	**7**	<6	<6
Cadmium	<0.3	<0.2	<0.2
Chromium	**14.4**	**17**	**11.9**
Cobalt	**4.3**	**4.6**	**3.7**
Copper	20.9	13.8	8.3
Lead	**18**	**44**	<2
Mercury	**0.05**	<0.05	<0.05
Molybdenum	**1.0**	**0.9**	<0.6
Nickel	**10**	**15**	**8**
Selenium	<7	<6	<6
Silver	<0.4	<0.4	<0.4
Thallium	<7	<6	<6
Vanadium	**45.5**	**45.5**	**43.3**
Zinc	**47.4**	**27.4**	**24.5**
Semivolatile Organic Compounds			
1,2,4-Trichlorobenzene	<0.0060	<0.0059	<0.0060
1,2-Dichlorobenzene	<0.0060	<0.0059	<0.0060
1,3-Dichlorobenzene	<0.020	<0.020	<0.020
1,4-Dichlorobenzene	<0.0060	<0.0059	<0.0060
1-Methylnaphthalene	<0.020	<0.020	<0.020
2,4-Dichlorophenol	<0.100	<0.099	<0.100
2,4-Dinitrophenol	<0.200	<0.200	<0.200
2,4-Dinitrotoluene	<0.100	<0.099	<0.100
2,6-Dinitrotoluene	<0.100	<0.099	<0.100
2,4-Dimethylphenol	<0.0060	<0.0059	<0.0060
2,4,5-Trichlorophenol	<0.100	<0.099	<0.100
2,4,6-Trichlorophenol	<0.100	<0.099	<0.100
2-Chloronaphthalene	<0.020	<0.020	<0.020
2-Chlorophenol	<0.020	<0.020	<0.020
2-Methylnaphthalene	<0.020	<0.020	<0.020
2-Methylphenol	<0.0060	<0.0059	<0.0060
2-Nitroaniline	<0.100	<0.099	<0.100
2-Nitrophenol	<0.100	<0.099	<0.100
3,3-Dchlorobenzidine	<0.100	<0.099	<0.100
3-Nitroaniline	<0.100	<0.099	<0.100
4,6-Dinitro-o-cresol	<0.200	<0.200	<0.200
4-Bromophenyl phenyl ether	<0.020	<0.020	<0.020
4-Chloro-3-methylphenol	<0.100	<0.099	<0.100
4-Chloroaniline	<0.100	<0.099	<0.100
4-Chlorophenyl phenyl ether	<0.020	<0.020	<0.020
4-Methylphenol	<0.020	<0.020	<0.020
4-Nitroaniline	<0.100	<0.099	<0.100
4-Nitrophenol	<0.100	<0.099	<0.100
Acenaphthene	<0.020	<0.020	<0.020
Acenaphthylene	<0.020	<0.020	<0.020
Aniline	<0.036	<0.020	<0.020
Anthracene	**0.032**	<0.020	<0.020
Benzo(a)anthracene	**0.054**	<0.020	<0.020
Benzo(a)pyrene	**0.030**	<0.020	<0.020
Benzo(b)fluoranthene	**0.041**	<0.020	<0.020
Benzo(ghi)perylene	**0.018**	<0.020	<0.020
Benzo(k)fluoranthene	**0.044**	<0.020	<0.020

TABLE F.5 - LDW-SC40 Core Sediment Data

Location	LDW-SC40	LDW-SC40	LDW-SC40
Date	Feb-06	Feb-06	Feb-06
Source	(a)	(a)	(a)
Coordinate X	1270303	1270303	1270303
Coordinate Y	200332	200332	200332
Depth (feet))	0 to 1.3	1.3-2	2-4
Units	(mg/kg)	(mg/kg)	(mg/kg)
Total Benzofluoranthenes	**0.085**	<0.020	<0.020
Chrysene	**0.085**	<0.020	<0.020
Indeno(123-cd)pyrene	**0.02**	<0.020	<0.020
Dibenzo(ah)anthracene	<0.020	<0.020	<0.020
BaPEq-TEQ(b)	**0.047**	nd	nd
Benzoic Acid	<0.080	<0.071	<0.067
Benzyl Alcohol	<0.030	<0.030	<0.030
bis(2-chloroethoxy)methane	<0.020	<0.020	<0.020
bis(2-chlorethyl)ether	<0.020	<0.020	<0.020
bis(2-chloroisopropyl)ether	<0.020	<0.020	<0.020
Bis(2-ethylhexyl)phthalate	**0.048**	<0.020	<0.020
Butylbenzylphthalate	**0.01**	<0.0059	<0.0060
Dibenzofuran	<0.020	<0.020	<0.020
Diethylphthalate	<0.020	<0.020	<0.020
Dimethylphthalate	<0.020	<0.020	<0.020
Di-N-Butylphthalate	<0.026	<0.020	<0.020
Di-n-octyl phthalate	<0.020	<0.020	<0.020
Fluoranthene	**0.32**	<0.020	<0.020
Fluorene	<0.020	<0.020	<0.020
Hexachlorobenzene	<0.0010	<0.0010	<0.0010
Hexachlorobutadiene	<0.0010	<0.0010	<0.0010
Hexachlorocyclopentadiene	<0.100	<0.099	<0.100
Hexachloroethane	<0.020	<0.020	<0.020
Isophorone	<0.020	<0.020	<0.020
Naphthalene	<0.020	<0.020	<0.020
Nitrobenzene	<0.020	<0.020	<0.020
N-Nitrosodimethylamine	<0.030	<0.030	<0.030
N-Nitroso-di-n-propylamine	<0.030	<0.030	<0.030
N-Nitrosodiphenylamine	<0.011	<0.006	<0.006
Pentachlorophenol	<0.030	<0.030	<0.030
Phenanthrene	**0.130**	<0.020	<0.020
Phenol	<0.020	<0.020	<0.020
Pyrene	**0.240**	<0.020	<0.020
Pesticides/PCBs			
2,4'-DDD	<0.0020	<0.0020	<0.0020
2,4'-DDE	<0.0020	<0.0020	<0.0020
2,4'-DDT	<0.0020	<0.0020	<0.0020
4,4'-DDD	<0.0020	<0.0020	<0.0020
4,4'-DDE	<0.0047	<0.0020	<0.0020
4,4'-DDT	<0.0072	<0.0020	<0.0020
Total DDTs	<0.0072	<0.0020	<0.0020
Aldrin	<0.0010	<0.0010	<0.0010
alpha-BHC	<0.0010	<0.0010	<0.0010
alpha-Chlordane	<0.0010	<0.0010	<0.0010
alpha-Endosulfan	<0.0010	<0.0010	<0.0010
beta-BHC	<0.0010	<0.0010	<0.0010
beta-Endosulfan	<0.0020	<0.0020	<0.0020
delta-BHC	<0.0010	<0.0010	<0.0010
Total chlordane	<0.0020	<0.0020	<0.0020
Cis-Nonachlor	<0.0033	<0.0020	<0.0020
Dieldrin	<0.0020	<0.0020	<0.0020
Endosulfan sulfate	<0.0020	<0.0020	<0.0020
Endrin	<0.0020	<0.0020	<0.0020
Endrin aldehyde	<0.0020	<0.0020	<0.0020
Endrin ketone	<0.0020	<0.0020	<0.0020
gamma-BHC	<0.0010	<0.0010	<0.0010

TABLE F.5 - LDW-SC40 Core Sediment Data

Location	LDW-SC40	LDW-SC40	LDW-SC40
Date	Feb-06	Feb-06	Feb-06
Source	(a)	(a)	(a)
Coordinate X	1270303	1270303	1270303
Coordinate Y	200332	200332	200332
Depth (feet))	0 to 1.3	1.3-2	2-4
Units	(mg/kg)	(mg/kg)	(mg/kg)
gamma-chlordane	<0.0010	<0.0010	<0.0010
Heptachlor	<0.0018	<0.0010	<0.0010
Heptachlor epoxide	<0.0010	<0.0010	<0.0010
Lindane	-----	-----	-----
Methoxychlor	<0.010	<0.0099	<0.0098
Mirex	<0.0020	<0.0020	<0.0020
Oxychlordane	<0.0020	<0.0020	<0.0020
Toxaphene	<0.1000	<0.0990	<0.0980
Trans-Nonachlor	<0.0020	<0.0020	<0.0020
PCB 1016	<0.020	<0.0040	<0.0039
PCB 1221	<0.020	<0.0040	<0.0039
PCB 1232	<0.020	<0.0040	<0.0039
PCB 1242	<0.020	<0.0040	<0.0039
PCB 1248	**0.061**	<0.0040	<0.0039
PCB 1254	**0.100**	<0.0040	<0.0039
PCB 1260	<0.040	<0.0040	<0.0039
Total PCBs	**0.16**	<0.0040	<0.0039
PCDD/PCDF (ng/kg)			
1,2.3,4,6,7,8-HpCDD	186	12.9	<0.307
1,2.3,4,6,7,8-HpCDF	35.1	2.16	<0.0471
1,2.3,4,7,8,9-HpCDF	2.26	0.127	<0.0471
1,2.3,4,7,8-HxCDD	1.43	0.171	<0.0471
1,2.3,4,7,8-HxCDF	5.24	0.205	<0.0471
1,2.3,6,7,8-HxCDD	6.56	0.430	<0.0471
1,2.3,6,7,8-HxCDF	1.46	0.135	<0.0471
1,2.3,7,8,9-HxCDD	5.28	0.471	<0.0471
1,2.3,7,8,9-HxCDF	<0.113	<0.0467	<0.0471
1,2.3,7,8-PeCDD	1.01	0.0850	<0.0471
1,2.3,7,8-PeCDF	0.41	<0.0467	<0.0471
2,3,4,6,7,8-HxCDF	1.01	0.146	<0.0471
2,3,4,7,8-PeCDF	1.10	0.109	<0.0471
2,3,7,8-TCDD	0.398	<0.0467	0.302
2,3,7,8-TCDF	0.451	<0.0467	<0.0471
OCDD	1830	100	2.92
OCDF	99.8	3.51	0.0875
2,3,7,8-TCDD-TEQ (c)	6.71	0.485	0.355

Notes:

(a) - LDW RI (2007)

(b) - BaPEq - Benzo(a)pyrene equivalent Conc.

(c) - 2,3,7,8-TCDD Equivalent Conc.

APPENDIX G
GROUNDWATER ANALYTICAL DATA TABLES
1986/87/91 (Hart Crowser), 2007 (SAIC), 2012 (DOF), 2014 (DOF), 2015 (DOF), 2016 (DOF) AND DOUGLAS PROPERTY TO 2014 (GEOENGINEERS) SAMPLE ANALYSES
ICS/NWC – UPLAND SAMPLE LOCATIONS

REMEDIAL INVESTION REPORT
ICS/NWC RI/FS
SEATTLE, WASHINGTON

- **TABLE G.1** – EARLY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS – 1986 to 2007 (Main Site)

- **TABLE G.2** – PUSH-PROBE AND MONITORING WELL GROUNDWATER ANALYTICAL RESULTS – 2012 TO 2016 (Main Site)

- **TABLE G.3** – OFF-SITE PUSH-PROBE GROUNDWATER ANALYTICAL DATA - 2015

- **TABLE G.4** – MONITORING WELL GROUNDWATER ANALYTICAL DATA – DOUGLAS PROPERTY – 2015/16 (WELLS MW-A, MW-B AND MW-C)

- **TABLE G.5** – DOUGLAS PROPERTY GROUNDWATER ANALYTICAL DATA – COLLECTED BY GEOENGINEERS – TO 2014

TABLE G.1 - Summary of Groundwater Quality Data - 1986 to 2007

ICS/NW Cooperage Site
Seattle, WA

Location	HC-B-1	HC-B-1	HC-B-2	HC-B-2	HC-B-2	HC-B-2	HC-B-3	SA-MW-1	SA-MW-2	SA-MW-3
Date	May-86	May-07	May-86	Mar-87	1991	May-07	May-86	May-07	May-07	May-07
Source	(a)	(c)	(a)	(b)	(d)	(c)	(a)	(c)	(c)	(c)
Petroleum Hydrocarbons (mg/l)										
Gasoline Range Organics	-----	-----	-----	-----	-----	0.48	-----	6.3	-----	-----
Diesel Range Organics	-----	0.027	-----	-----	-----	0.064	-----	0.9	0.16	-----
Residual Range Organics	-----	0.019	-----	-----	-----	0.48	-----	0.52	0.28	-----
Dissolved Metals (ug/l)										
Anitmony	nd	-----	15	nd	-----	-----	nd	-----	-----	-----
Arsenic	nd	3.9	17	10	1.4	4.7	nd	25.7	4.2	0.98
Beryllium	nd	-----	nd	nd	-----	-----	nd	-----	-----	-----
Cadmium	6	<20	2	nd	-----	<20	2	0.23	<20	0.03
Chromium	3	2.6	7	5		2.2	14	43	1.4	0.74
Copper	6	3	6	nd	-----	0.22	4	36.4	12.3	4.9
Lead	nd	0.065	27	nd	-----	0.04	nd	36.5	0.25	0.10
Mercury	nd	0.03	nd	nd	-----	<0.20	nd	0.12	0.03	0.03
Nickel	26	-----	22	15	-----	-----	9	-----	-----	-----
Silver	4	<0.10	3	nd	-----	<0.10	10	0.22	0.06	<0.10
Zinc	110	1.23	19	38	-----	0.45	10	25.1	7.6	13.2
Total Metals (ug/l)										
Anitmony	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Arsenic	-----	9	-----	-----	-----	4.8	-----	3	5.1	1.2
Beryllium	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	-----	2.5	-----	-----	-----	0.01	-----	0.47	0.11	0.02
Chromium	-----	21.4	-----	-----	-----	2.0	-----	75.1	6.6	0.75
Copper	-----	23.1	-----	-----	-----	0.72	-----	70.6	11.3	3.5
Lead	-----	40.6	-----	-----	-----	0.30	-----	77.5	26.2	0.07
Mercury	-----	0.38	-----	-----	-----	0.03	-----	0.28	0.12	0.03
Nickel	-----	-----	-----	-----	5.4	-----	-----	-----	-----	-----
Silver	-----	<0.10	-----	-----	-----	<0.10	-----	0.38	0.15	<0.10
Zinc	-----	94.6	-----	-----	29	1.7	-----	46.2	34.4	13.8
Volatile Organic Compounds (ug/l)										
Vinyl chloride	nd	-----	110	250	25	-----	nd	-----	-----	-----
Methylene chloride	TR	-----	11	TR	-----	-----	8	-----	-----	-----
Acetone	16	-----	56	120	-----	-----	21	-----	-----	-----
Chloroform	nd	-----	nd	nd	-----	-----	nd	-----	-----	-----
1,1-Dichloroethylene	nd	-----	nd	nd	-----	-----	nd	-----	-----	-----
1,1-Dichloroethane	nd	-----	TR	TR	9.2	-----	nd	-----	-----	-----
trans 1,2-dichloroethylene	nd	-----	190	33	20	-----	nd	-----	-----	-----
1,1,1-Trichloroethane	nd	-----	nd	nd	-----	-----	nd	-----	-----	-----
Trichloroethylene	nd	-----	TR	TR	-----	-----	nd	-----	-----	-----
Tetrachloroethylene	nd	-----	nd	TR	-----	-----	nd	-----	-----	-----
Benzene	nd	-----	17	16	13	-----	nd	-----	-----	-----
4,-Methyl-2-pentanone	nd	-----	11	TR	-----	-----	nd	-----	-----	-----
Toluene	nd	-----	270	290	140	-----	nd	-----	-----	-----
Ethylbenzene	nd	-----	460	430	510	-----	nd	-----	-----	-----
Total Xylene	TR	-----	150	TR	300	-----	nd	-----	-----	-----
Semivolatile Organic Compounds (ug/l)										
1,2,4-Trichlorobenzene	-----	<0.20	-----	-----	-----	0.34	-----	2.5	<0.20	<0.20
1,2-Dichlorobenzene	nd	0.03	nd		-----	1.9	nd	4.5	0.15	<0.20
1,4-Dichlorobenzene	-----	0.03	-----	-----	-----	5.9	-----	2.2	0.48	<0.20
2,4-Dimethylphenol	nd	<2	320	nd	100	<20	28	11	<2	<2
2-Methylnaphthalene	nd	<0.20	nd	nd	7.4	0.76	10	99	0.17	<0.20
2-Methylphenol	nd	<0.48	26	11	-----	<4.8	nd	11	<0.48	<0.48
4-Methylphenol	nd	0.06	70	50	-----	4.8	nd	7.9	<0.48	<0.48
Acenaphthene	nd	<0.20	nd	nd	-----	0.76	10	1.5	0.22	<0.20
Acenaphthylene	nd	<0.20	nd	nd	-----	0.37	nd	0.86	<0.20	<0.20
Anthracene	nd	0.06	nd	nd	-----	1.1	nd	0.97	0.18	0.088
Benzo(a)anthracene	-----	<0.20	-----	-----	-----	0.43	-----	0.94	0.04	<0.20
Benzo(a)pyrene	-----	<0.20	-----	-----	-----	0.34	-----	0.85	0.03	<0.20
Benzo(b)fluoranthene	-----	<0.20	-----	-----	-----	0.30	-----	0.74	0.03	<0.20
Benzo(ghi)perylene	-----	<0.20	-----	-----	-----	0.29	-----	0.7	<0.20	<0.20

TABLE G.1 - Summary of Groundwater Quality Data - 1986 to 2007

ICS/NW Cooperage Site
Seattle, WA

Location	HC-B-1	HC-B-1	HC-B-2	HC-B-2	HC-B-2	HC-B-2	HC-B-3	SA-MW-1	SA-MW-2	SA-MW-3
Date	May-86	May-07	May-86	Mar-87	1991	May-07	May-86	May-07	May-07	May-07
Source	(a)	(c)	(a)	(b)	(d)	(c)	(a)	(c)	(c)	(c)
Benzo(k)fluoranthene	-----	<0.20	-----	-----	-----	0.28	-----	0.62	<0.20	<0.20
Benzoic Acid	-----	<4.8	-----	-----	-----	<48	-----	<100	7.2	2.4
Benzyl Alcohol	-----	<4.8	-----	-----	-----	<48	-----	<96	4.8	4.8
Bis(2-ethylhexyl)phthalate	TR	<0.96	TR	nd	-----	<9.6	TR	20	0.84	0.96
Butylbenzylphthalate	nd	<0.20	nd	nd	-----	<2	nd	<3.9	0.08	<0.20
Chrysene	-----	<0.20	-----	-----	-----	0.35	-----	0.88	0.03	<0.20
Dibenzo(ah)anthracene	-----	<0.20	-----	-----	-----	<2	-----	<3.9	<0.20	<0.20
Dibenzofuran	nd	<0.20	nd	nd	-----	0.47	nd	1.1	0.08	<0.20
Diethylphthalate	-----	<0.20	-----	-----	-----	1.4	-----	<3.9	0.07	<0.20
Dimethylphthalate	-----	<0.20	-----	-----	-----	<2	-----	<3.9	<0.20	<0.20
Di-N-Butylphthalate	-----	<0.20	-----	-----	-----	0.59	-----	<3.9	0.09	0.045
Di-n-octyl phthalate	nd	<0.20	nd	nd	-----	0.42	nd	1	<0.20	<0.20
Fluoranthene	nd	<0.20	nd	nd	-----	0.53	nd	0.86	0.13	<0.20
Fluorene	nd	<0.20	nd	nd	-----	0.66	nd	1.6	0.18	<0.20
Hexachlorobenzene	-----	<0.20	-----	-----	-----	0.30	-----	0.66	<0.20	<0.20
Hexachlorobutadiene	-----	<0.20	-----	-----	-----	<2	-----	<3.9	<0.20	<0.20
Indeno(123-cd)pyrene	-----	<0.20	-----	-----	-----	0.28	-----	0.63	<0.20	<0.20
Naphthalene	TR	<0.20	18	28	37	<2	120	36	1.1	<0.20
N-Nitrosodiphenylamine	-----	<0.20	-----	-----	-----	1.2	-----	3	<0.20	<0.20
Pentachlorophenol	nd	<2.0	nd	nd	-----	0.80	nd	23	0.16	<2
Phenanthrene	nd	<0.20	nd	nd	-----	0.46	nd	1.9	0.27	<0.20
Phenol	nd	<0.48	18	nd	-----	<0.48	nd	0.97	<0.48	<0.48
Pyrene	nd	<0.20	nd	nd	-----	0.48	nd	1	0.12	<0.20
Dibutylphthalate	nd	-----	nd	nd	-----	-----	nd	-----	-----	-----
4-Chloro-m-cresol	nd	-----	130	49	-----	-----	nd	-----	-----	-----
Pesticides/PCBs (ug/l)										
2,4'-DDD	-----	<0.0011	-----	-----	-----	<0.022	-----	<0.005	0.051	<0.0005
2,4'-DDE	-----	<0.0005	-----	-----	-----	<0.010	-----	0.020	<0.013	0.00034
2,4'-DDT	-----	0.0010	-----	-----	-----	<0.010	-----	0.046	0.052	<0.0005
4,4'-DDD	nd	0.0015	nd	37	-----	<0.010	nd	<0.005	0.026	<0.0005
4,4'-DDE	nd	0.0018	nd	54	-----	<0.041	nd	0.067	0.080	<0.0006
4,4'-DDT	nd	0.0014	nd	32	-----	<0.010	nd	<0.041	<0.040	0.0013
Aldrin	-----	0.0009	-----	-----	-----	0.020	-----	<0.005	<0.010	<0.0005
Chlordane	-----	<0.013	-----	-----	-----	<0.220	-----	0.270	<0.200	<0.0096
cis-Chlordane	-----	0.0005	-----	-----	-----	0.026	-----	<0.009	<0.010	<0.0005
Dieldrin	nd	<0.002	nd	nd	-----	<0.010	nd	<0.022	<0.010	<0.0005
gamma-Chlordane	-----	<0.0015	-----	-----	-----	0.013	-----	0.025	<0.022	<0.0005
Heptachlor	-----	<0.0005	-----	-----	-----	<0.010	-----	<0.011	<0.010	<0.0005
Lindane	-----	0.0014	-----	-----	-----	0.012	-----	0.019	<0.010	0.00038
Endrin	nd	-----	nd	nd	-----	-----	nd	-----	-----	-----
PCB 1016	-----	<0.020	-----	-----	-----	<0.200	-----	<0.200	<0.200	<0.0200
PCB 1221	-----	<0.039	-----	-----	-----	<0.390	-----	<0.390	<0.390	<0.0390
PCB 1232	-----	<0.020	-----	-----	-----	<0.200	-----	<0.200	<0.200	<0.0240
PCB 1242	-----	0.13	-----	-----	-----	1.7	-----	2.9	0.75	<0.0200
PCB 1248	nd	<0.0200	nd	nd	-----	<0.2	nd	<0.200	<0.200	<0.0200
PCB 1254	-----	0.035	-----	-----	-----	0.140	-----	1.10	0.470	<0.0200
PCB 1260	nd	0.014	nd	nd	-----	0.069	nd	0.540	0.420	<0.0200
Other Compounds (ug/l)										
Total Cyanide	18	-----	70	300	41	-----	nd	-----	-----	-----
Total Phenol	nd	-----	180	120	-----	-----	9	-----	-----	-----

Notes: nd - Not detected
TR - Trace
(a) - Hart Crowser 1986
(b) - Hart Crowser 1987
(c) - SAIC July 2007
(d) - By Hart Crowser

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Screen Depth (feet)	Field Parameters							Chloride	Sulfate	Antimony	
			pH	Temp.	Conductivity	DO	ORP (1)	Ferrous Fe	Turbidity			7440-36-0	
				C	uS/cm	mg/l	mV	mg/l	NTU	mg/L	mg/L	diss. µg/L	total µg/L
Push-Probes	**SLs**											90	90
P11	11/17/14	6-10	6.8	13.2	741	-----	-----	-----	22.8	**12.1**	**2.9**	0.5 U	0.5 U
P12	11/17/14	5-9	6.8	14.8	1510	-----	-----	-----	40.1	**73.9**	1.0 U	1 U	1 U
P13	11/13/14	10-15	6.8	15.1	1138	-----	-----	-----	73	**58.3**	**0.7**	0.5 U	0.5 U
P14	11/14/14	10-15	6.7	12.7	1575	-----	-----	-----	44.2	**514**	**1.2**	0.2 U	0.2 U
P15	11/14/14	3-8	6.6	13.6	1847	-----	-----	-----	9.8	**251**	**11.4**	**0.8**	**1.0**
P16	12/10/14	9-14	7.0	14.1	1943	-----	-----	-----	575	**643**	**2.5**	**0.8**	**0.4**
P18A	12/16/14	25-30	7.0	12.6	2690	-----	-----	-----	275	**840**	**0.5**	0.2 U	**0.4**
P18B	12/16/14	45-50	6.9	13.0	8610	-----	-----	-----	51.9	**8220**	**4.2**	1 U	1 U
P20	11/12/14	10-15	6.8	11.9	1142	-----	-----	-----	77	**16**	**143**	0.2 U	0.2 U
P21A	12/8/14	25-30	6.9	13.4	1163	-----	-----	-----	190	**71.5**	**0.6**	0.2 U	0.2 U
P21B	12/8/14	45-50	6.8	13.0	10960	-----	-----	-----	119	**6490**	**184**	2 U	2 U
P23	11/12/14	10-15	6.8	10.4	728	-----	-----	-----	122	**34.6**	**47.2**	**0.5**	**0.5**
P26	11/13/14	10-15	7.0	12.9	13910	-----	-----	-----	255	**5620**	**589**	1 U	1 U
P27A	11/11/14	15-20	7.2	12.0	10060	-----	-----	-----	74.8	**3790**	**489**	0.5 U	0.5 U
P27B	11/11/14	45-50	7.2	10.9	12050	-----	-----	-----	372	**5170**	**3.5**	0.5 U	**3.5**
P28	12/15/14	25-30	6.8	13.4	5250	-----	-----	-----	229	**2850**	**205**	0.5 U	0.5 U
P29	12/10/14	29-34	6.8	14.0	3070	-----	-----	-----	401	**1470**	**136**	0.5 U	0.5 U
P30	12/9/14	25-30	7.4	13.9	6030	-----	-----	-----	182	**2930**	**201**	1 U	1 U
P31	12/9/14	25-30	6.9	13.4	4010	-----	-----	-----	65	**1460**	**0.5**	0.5 U	2 U
P32A	12/15/14	25-30	6.6	12.2	2560	-----	-----	-----	312	**1950**	**83.8**	0.2 U	0.2 U
P32B	12/15/14	35-40	6.8	12.6	4590	-----	-----	-----	183	**891**	**0.7**	0.5 U	0.5 U
P33A	12/8/14	26-30	6.7	12.1	710	-----	-----	-----	586	**25.0**	**0.6**	0.2 U	0.2 U
P33B	12/8/14	36-40	7.2	12.6	2150	-----	-----	-----	440	**280**	**2.4**	-----	-----
Monitoring Wells													
DOF-MW-1	11/8/12	12-17	7.0	12.9	6551	0.28	-84.6	10	13.4	**2210**	**323**	2 U	2 U
DOF-MW-1	11/11/15		7.5	14.3	10393	0.2	-106.4	3.8	4.4	**3670**	**434**	-----	-----
DOF-MW-1	3/22/16		6.5	11.7	9530	0.4	-38.4	6.8	121	-----	-----	-----	-----
DOF-MW-1	9/26/16		6.5	16.4	3908	1.7	-28.3	4.2	7.2	-----	-----	-----	-----
DOF-MW-2	11/8/12	15-20	6.5	15.7	1940	0.06	-34.4	6	9.8	**179**	**1.0**	0.2 U	0.2 U
DOF-MW-2	11/11/15		7.5	16.5	2077	0.03	-22.7	4	5.8	**198**	**0.5**	-----	-----
DOF-MW-2	3/22/16		6.6	16	2000	0.2	-36.9	6.9	5.7	-----	-----	-----	-----
DOF-MW-2	9/26/16		6.6	18.5	1863	0.1	-12.3	5.5	4	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Screen Depth (feet)	Field Parameters							Chloride	Sulfate	Antimony	
			pH	Temp.	Conductivity	DO	ORP (1)	Ferrous Fe	Turbidity			7440-36-0	
				C	uS/cm	mg/l	mV	mg/l	NTU	mg/L	mg/L	diss. µg/L	total µg/L
DOF-MW-3	11/8/12	17-22	6.5	14.5	1623	0.01	-35.2	4.6	10.5	**217**	**0.8**	0.2 U	0.2 U
DOF-MW-3	11/20/15		7.2	15.4	2225	0.08	-31	3.4	10	**270**	**0.4**	-----	-----
DOF-MW-3	3/24/16		6.5	15	2230	0.1	-69.9	6.2	4.9	-----	-----	-----	-----
DOF-MW-3	9/26/16		6.5	18	2345	0.2	-27.2	6.5	2.5	-----	-----	-----	-----
DOF-MW-4	11/8/12	17-22	6.3	15	1455	0	-39.9	5.8	10.3	**103**	**1.1**	0.2 U	0.2 U
DOF-MW-4	11/11/15		7.3	16	1531	0.01	-31.1	3.8	6.5	**118**	**0.4**	-----	-----
DOF-MW-4	3/29/16		6.3	16.3	1699	0.2	2.3	5.5	4.5	-----	-----	-----	-----
DOF-MW-4	9/26/16		6.4	17.9	1644	1.2	-13.9	4.5	2.7	-----	-----	-----	-----
DOF-MW-5	11/8/12	17-22	6.5	13.4	828	0.03	-48.3	3.2	11.2	**61.9**	**1.0**	0.2 U	0.2 U
DOF-MW-5	11/20/15		7.2	14.1	1156	0.11	-56.8	3.8	3.5	**207**	**0.3**	-----	-----
DOF-MW-5	3/29/16		6.3	14.4	1198	0	1.6	7	4.3	-----	-----	-----	-----
DOF-MW-5	9/26/16		6.3	16.2	1246	2.1	-10.2	5.8	4.8	-----	-----	-----	-----
DOF-MW-6	11/9/12	13-18	6.9	14	1255	0.12	-48.5	5	22.3	**356**	0.1 U	0.2 U	0.2 U
DOF-MW-6	11/19/15		7.8	14.5	1296	0.6	-59.3	4.8	13.2	**270**	**5.5**	-----	-----
DOF-MW-6	3/24/16		6.4	13.1	1312	0.2	38.8	5	16.3	-----	-----	-----	-----
DOF-MW-6	9/27/16		6.5	16.4	1538	-----	3.1	6.5	4.3	-----	-----	-----	-----
DOF-MW-7	11/9/12	13-18	6.2	13.9	2095	0.04	-95.7	6.2	5.9	**470**	**2.5**	0.2 U	0.2 U
DOF-MW-7	11/23/15		6.5	14.8	1806	0.4	-83.9	3.2	3	**378**	**0.1**	-----	-----
DOF-MW-7	3/25/16		6.1	13.7	1896	0.2	3.8	6.2	2.8	-----	-----	-----	-----
DOF-MW-7	9/27/16		6.2	16.2	2263	-----	-2.9	6	11.4	-----	-----	-----	-----
DOF-MW-8	11/9/12	13-18	6.4	15.7	1090	0.05	-98.1	7	48.8	**46.0**	**1.5**	0.2 U	**0.5**
DOF-MW-8	11/20/15		6.8	15.7	1095	0.05	-78	3.6	15.6	**39.7**	**0.5**	-----	-----
DOF-MW-8	3/22/16		6.4	14.4	1061	0.2	-67.9	7	16.1	-----	-----	-----	-----
DOF-MW-8	9/30/16		6.4	17.6	1143	0.1	33.4	7	25.7	-----	-----	-----	-----
HC-B1	11/13/12	16-21	8.0	12.5	10097	0.93	-201	0	5.1	**3730**	**4.8**	1 U	1 U
HC-B1	11/19/15		8.3	14	7553	0.03	-278.8	0	5.9	**3770**	**4.8**	-----	-----
HC-B1	3/24/16		7.7	12.5	10594	0.1	-274	0	4.6	-----	-----	-----	-----
HC-B1	9/30/16		7.5	16.7	14543	0	-16.7	0	6.8	-----	-----	-----	-----
HC-B2(R)	11/11/15	4.5-9.5	7.4	15.5	414	1	-22.5	5	15.9	-----	-----	-----	-----
HC-B2(R)	3/23/16		6.1	10.5	157	1.6	55.9	0	8.1	-----	-----	-----	-----
HC-B2R	9/30/16		ISV	ISV	ISV	ISV	ISV	ISV	ISV	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Screen Depth (feet)	Field Parameters							Chloride	Sulfate	Antimony	
			pH	Temp.	Conductivity	DO	ORP (1)	Ferrous Fe	Turbidity			7440-36-0	
				C	uS/cm	mg/l	mV	mg/l	NTU	mg/L	mg/L	diss. µg/L	total µg/L
SA-MW1	11/23/15	4-24	7.6	16	3394	0.03	-233.7	0	16.8	**554**	**19.3**	-----	-----
SA-MW1	3/24/16		8.7	12.8	2929	0.1	-114.4	0	15.4	-----	-----	-----	-----
SA-MW1	9/30/16		8.6	16.5	3351	0	-60	0.5	5	-----	-----	-----	-----
SA-MW2	11/9/12	2-24	6.7	13.1	7021	0.04	-7.8	0.8	5.1	**2280**	**36.1**	**0.2**	**0.2**
SA-MW2	11/20/15		6.5	15.3	4486	0.09	-154.8	0	5.2	**3110**	**132**		
SA-MW2	3/29/16		6.4	12.5	1174	0.6	-90.7	5.5	5.3	-----	-----		
SA-MW2	9/30/16		6.4	18	13728	0	-157	0	5.7	-----	-----	-----	-----
SA-MW3	11/13/12	2-24	5.9	13.6	10760	-----	129	1.8	37.1	**4050**	**576**	1 U	1 U
SA-MW3	11/19/15		7.9	14	6471	2.2	-100.1	3.3	64.4	**2220**	**334**	-----	-----
SA-MW3	3/28/16		6.8	9.9	2248	4.5	47.3	0.5	20.6	-----	-----	-----	-----
SA-MW3	9/27/16		6.5	16.3	5104	4.4	17.3	0	31	-----	-----	-----	-----
MW-Ap	11/18/15	4.5-9.5	7.6	15	515	0.1	-56.6	4.4	22	-----	-----	-----	-----
MW-Ap	3/25/16		5.9	11.1	112	3.3	117.1	0	10.1	-----	-----	-----	-----
MW-Ap	10/1/16		6.1	18	352	ISV	23.3	ISV	ISV	-----	-----	-----	-----
MW-Bp	11/18/15	5.5-10.5	7.5	15.4	443	2	-9.7	5.8	15.4	-----	-----	-----	-----
MW-Bp	3/25/16		5.8	12.9	421	2.6	150.1	0	4.8	-----	-----	-----	-----
MW-Bp	10/1/16		6.4	17.9	418	ISV	-13.6	5.5	43	-----	-----	-----	-----
MW-Cp	11/18/15	3.5-8.5	7.7	17.3	834	0.13	-42.3	5.4	9	-----	-----	-----	-----
MW-Cp	3/25/16		6.4	12.7	756	0.8	-51.1	3.2	15	-----	-----	-----	-----
MW-Cp	10/1/16		6.3	21.7	910	ISV	-48.5	5	13	-----	-----	-----	-----
MW-Dp	11/18/15	5-10	7.4	16.6	296	1.21	-14.5	3.8	27.3	-----	-----	-----	-----
MW-Dp	3/28/16		6.4	12.3	620	0.3	59.4	1	54.4	-----	-----	-----	-----
MW-Dp	10/1/16		ISV	ISV	ISV	ISV	ISV	ISV	ISV	-----	-----	-----	-----
MW-Du	11/18/15	11-21	7.6	14.7	876	0.15	-85.5	5.6	16.3	**116**	**4.7**	-----	-----
MW-Du	3/28/16		6.4	13.9	854	0.3	-32.8	4.8	16.6	-----	-----	-----	-----
MW-Du	10/1/16		6.4	16.7	950	0.1	-42.2	5.5	5.6	-----	-----	-----	-----
MW-Eu	11/19/15	4.5-14.5	8.3	15.8	18219	0.1	-114.5	3.6	11.1	**4850**	**564**	-----	-----
MW-Eu	3/24/16		6.8	12.2	18745	0.3	-163.4	6.5	17.5	-----	-----	-----	-----
MW-Eu	9/30/16		6.8	18.8	7714	0.1	-3.6	5.2	19	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Screen Depth (feet)	Field Parameters							Chloride	Sulfate	Antimony	
			pH	Temp.	Conductivity	DO	ORP (1)	Ferrous Fe	Turbidity			7440-36-0	
				C	uS/cm	mg/l	mV	mg/l	NTU	mg/L	mg/L	diss. µg/L	total µg/L
MW-Fu	11/11/15	4.5-14.5	7.3	13.9	962	0.04	-26.3	4.2	1.3	**78.4**	**59.7**	-----	-----
MW-Fu	3/23/16		6.4	11.2	755	0.8	34.4	1	13	-----	-----	-----	-----
MW-Fu	9/28/16	4.5-14.5	6.5	15.7	1037	2.5	24.1	4.2	52	-----	-----	-----	-----
MW-FL	11/10/15	19.5-29.5	7.3	12.4	4880	0.05	-142.1	5	13	**1490**	**21.6**	-----	-----
MW-FL	3/23/16		6.6	12.5	5081	0.1	-72.7	6	4	-----	-----	-----	-----
MW-FL	9/28/16		6.6	14.5	5298	0.1	-8	3	6	-----	-----	-----	-----
MW-Gu	11/10/15	4.5-14.5	7.1	13.8	1345	0.05	-129.1	4.4	20.5	**192**	**15.6**	-----	-----
MW-Gu	3/23/16		6.5	11.6	1902	0	-64.3	3.5	11.1	-----	-----	-----	-----
MW-Gu	9/28/16		6.4	15.8	1766	0.2	-3.1	4	6.3	-----	-----	-----	-----
MW-GL	11/10/15	19.6-29.6	7.3	12.4	9193	0.03	-117.2	4.2	27	**3690**	**273**	-----	-----
MW-GL	3/23/16		6.7	12.5	9091	0	-54.6	4.8	1.1	-----	-----	-----	-----
MW-GL	9/28/16		6.5	14.4	10119	0.1	5.5	6.8	2.7	-----	-----	-----	-----
MW-HL	11/18/15	19.6-29.6	7.5	13.3	5966	0.07	-62.6	4.2	6	**2310**	**230**	-----	-----
MW-HL	3/29/16		6.3	13.5	5788	0	-0.7	6.2	10.4	-----	-----	-----	-----
MW-HL	9/27/16		6.3	15.4	6457	0.1	12.5	6	4.2	-----	-----	-----	-----
MW-IL	11/20/15	24.5-34.5	7	13	8888	0.07	-90.2	5.2	10.6	**2950**	**31.2**	-----	-----
MW-IL	3/28/16		6.4	12.8	5961	0	-23	5.2	9.3	-----	-----	-----	-----
MW-IL	9/27/16		6.3	15.4	7282	2	-14.2	7	3.3	-----	-----	-----	-----
MW-Ju	11/20/15	5-15	7	15.7	2915	0.06	-131.9	5.8	43	**666**	**80.5**	-----	-----
MW-Ju	3/28/16		6.3	10.8	1193	0.1	10.7	5.5	6	-----	-----	-----	-----
MW-Ju	9/27/16		6.3	19.3	7862	3.7	-4	6	22	-----	-----	-----	-----
MW-Ku	11/10/15	4.5-14.5	6.5	15.3	272	0.8	-17.4	0.8	14.9	**17.4**	**11.1**	-----	-----
MW-Ku	3/22/16		6.4	11	364	0.7	17.5	0	12.2	-----	-----	-----	-----
MW-Ku	9/28/16		6.5	16	1383	0.2	6.3	2.8	12.7	-----	-----	-----	-----
MW-KL	11/10/15	19.7-29.7	7.5	13.6	3618	0.4	-198	3.4	22.8	**1180**	**85.2**	-----	-----
MW-KL	3/22/16		6.8	13	6039	0.7	-50.9	4.8	2.2	-----	-----	-----	-----
MW-KL	9/28/16		6.7	14.7	9168	0.1	31	5	2.7	-----	-----	-----	-----
Seep 1	5/4/07	0	6.5	19.9	6350	-	-	-	34	-	-	-	-
Seep 1	7/5/12	0	6.5	13	6609	2.9	-11.8	1.4	6.7	**2430**	**321**	1 U	-
Seep 2	5/7/07	0	6.4	12.7	8530	-	-	-	159	-	-	-	-
Seep 2	7/5/12	0	7.0	13.7	6202	7.5	-6.5	1.0	7.2	**2220**	**303**	1 U	-

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Screen Depth (feet)	Field Parameters							Chloride	Sulfate	Antimony	
			pH	Temp.	Conductivity	DO	ORP (1)	Ferrous Fe	Turbidity			7440-36-0	
				C	uS/cm	mg/l	mV	mg/l	NTU	mg/L	mg/L	diss. µg/L	total µg/L
Number of Samples										59	59	35	33
Number of Detects										59	57	4	7
Percent Detected										100.0%	96.6%	11.4%	21.2%
Highest Conc.										8220	589	0.80	4

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
(1) - Referenced to Ag/AgCl electrode
nd - Not detected
ISV - Insufficient volume
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Arsenic		Beryllium		Cadmium		Calcium		Total Chromium		Hexavalent Chromium
		7440-38-2		7440-41-7		7440-43-9		7440-70-2		7440-47-3		
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L
Push-Probes	**SLs**	8	8	4.4	4.4	1.2	1.2	-----	-----	0.2	0.2	50
P11	11/17/14	**28.6**	**28.0**	0.5 U	0.5 U	0.2 U	0.2 U	-----	**15,400**	**3**	**3**	10 U
P12	11/17/14	**28**	**27**	1 U	1 U	0.5 U	0.5 U	-----	**27,800**	**22**	**20**	10 U
P13	11/13/14	**11.1**	**11.4**	0.2 U	0.2 U	0.2 U	0.2 U	-----	**16,000**	**8**	**8**	10 U
P14	11/14/14	**0.4**	**0.8**	**0.5**	**0.5**	0.1 U	0.1 U	-----	**48,000**	2 U	**5**	10 U
P15	11/14/14	**12.3**	**12.6**	0.5 U	0.5 U	0.1 U	0.1 U	-----	**13,300**	**10**	**10**	12 U
P16	12/10/14	**2.4**	**5.4**	0.2 U	**0.3**	0.1 U	0.1 U	-----	**56,400**	1 U	**17**	10 U
P18A	12/16/14	**2**	**5**	0.2 U	**0.5**	0.1 U	**0.2**	-----	**71,500**	**5**	**45**	10 U
P18B	12/16/14	2 U	**3**	1 U	1 U	0.5 U	0.5 U	-----	**587,000**	2 U	**11**	14 U
P20	11/12/14	**1.6**	**3.6**	0.2 U	0.2 U	0.1 U	0.1 U	-----	**201,000**	0.5 U	**6**	10 U
P21A	12/8/14	**1.0**	**1.2**	0.2 U	0.2 U	0.1 U	0.1 U	-----	**30,400**	**3**	**11**	11 U
P21B	12/8/14	2 U	**3**	2 U	2 U	1 U	1 U	-----	**643,000**	5 U	**30**	34 U
P23	11/12/14	**3.3**	**4.1**	0.2 U	0.2 U	0.1 U	0.1 U	-----	**67,400**	0.5 U	**2.1**	10 U
P26	11/13/14	**15**	**14**	1 U	1 U	0.5 U	0.5 U	-----	**184,000**	2 U	**3**	10 U
P27A	11/11/14	**3**	**3**	0.5 U	0.5 U	0.2 U	0.2 U	-----	**69,600**	**1**	**8**	10 U
P27B	11/11/14	**2**	**11**	0.5 U	**0.6**	0.2 U	**1.2**	-----	**553,000**	1 U	**57**	10 U
P28	12/15/14	1 U	**3**	0.5 U	**0.8**	0.2 U	0.2 U	-----	**135,000**	**2**	**32**	11 U
P29	12/10/14	**2**	**12**	0.5 U	**0.8**	0.2 U	**0.3**	-----	**123,000**	**3**	**81**	22 U
P30	12/9/14	**5**	**8**	1 U	1 U	0.5 U	0.5 U	-----	**111,000**	**36**	**38**	10 U
P31	12/9/14	1 U	1 U	0.5 U	0.5 U	0.2 U	1 U	-----	**62,800**	5 U	**6**	23 U
P32A	12/15/14	0.5 U	**5.1**	**0.3**	**0.7**	0.1 U	**0.1**	-----	**66,700**	**7.3**	**121**	10 U
P32B	12/15/14	**2**	**2**	**0.8**	**0.6**	0.2 U	0.2 U	-----	**65,500**	**2**	**22**	20 U
P33A	12/8/14	**0.3**	**0.8**	0.2 U	0.2 U	0.1 U	0.1 U	-----	**29,600**	2 U	**10**	10 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	**53,900**	-----	-----	-----
Monitoring Wells												
DOF-MW-1	11/8/12	**2**	**2**	2 U	2 U	1 U	1 U	-----	**130,000**	5 U	5 U	-----
DOF-MW-1	11/11/15	**4**	**6**	-----	-----	1 U	**0.2 J**	-----	**135,000**	**5**	**24**	-----
DOF-MW-1	3/22/16	**4**	**9**	-----	-----	0.5 U	**0.2 J**	-----	**135,000**	**7**	**26**	-----
DOF-MW-1	9/26/16	**1.7**	**1.9**	-----	-----	0.20 U	0.50 U	-----	-----	**3.8**	**4.5**	-----
DOF-MW-2	11/8/12	**2.6**	**4.3**	**0.3**	**0.3**	0.1 U	0.1 U	-----	**15,300**	**47.2**	**68.3**	-----
DOF-MW-2	11/11/15	**3.9**	**4.2**	-----	-----	**0.01 J**	**0.01 J**	-----	**14,100**	**66.9**	**65.7**	-----
DOF-MW-2	3/22/16	**4.1**	**4**	-----	-----	0.2 U	**0.01 J**	-----	**12,700**	**69**	**76**	-----
DOF-MW-2	9/26/16	**3.8**	**3.6**	-----	-----	0.20 U	0.20 U	-----	-----	**62**	**69**	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Arsenic		Beryllium		Cadmium		Calcium		Total Chromium		Hexavalent Chromium
		7440-38-2		7440-41-7		7440-43-9		7440-70-2		7440-47-3		
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L
DOF-MW-3	11/8/12	**2.0**	**3.1**	0.2 U	**0.2**	0.1 U	0.1 U	-----	**16,700**	**28.3**	**37.1**	-----
DOF-MW-3	11/20/15	**5.3**	**5.1**	-----	-----	0.2 U	0.2 U	-----	**23,600**	**62**	**75**	-----
DOF-MW-3	3/24/16	**6.0**	**6**	-----	-----	**0.04 J**	**0.02 J**	-----	**21,400**	**75**	**82**	-----
DOF-MW-3	9/26/16	**5.5**	**5.8**	-----	-----	0.20 U	0.20 U	-----	-----	**74**	**84**	-----
DOF-MW-4	11/8/12	**2**	**3.6**	1 U	**0.3**	0.1 U	0.1 U	-----	**16,000**	**46.0**	**55.5**	-----
DOF-MW-4	11/11/15	**2.9**	**3**	-----	-----	0.1 U	**0.01 J**	-----	**13,900**	**48.8**	**46.4**	-----
DOF-MW-4	3/29/16	**2.8**	**3**	-----	-----	**0.01 J_B**	**0.01 J**	-----	**12,500**	**67**	**64**	-----
DOF-MW-4	9/26/16	**3.3**	**2.9**	-----	-----	0.20 U	0.20 U	-----	-----	**59**	**64**	-----
DOF-MW-5	11/8/12	0.5 U	**0.7**	0.5 U	0.2 U	0.1 U	0.1 U	-----	**7,070**	**10.9**	**13.6**	-----
DOF-MW-5	11/20/15	**0.5**	**0.5**	-----	-----	0.1 U	0.1 U	-----	**10,800**	**8.9**	**11**	-----
DOF-MW-5	3/29/16	**0.5**	**0.6**	-----	-----	**0.02 J_B**	**0.02 J**	-----	**12,100**	**12**	**12**	-----
DOF-MW-5	9/26/16	**0.60**	**0.68**	-----	-----	0.20 U	0.20 U	-----	-----	**12**	**14**	-----
DOF-MW-6	11/9/12	**0.8**	**1.3**	0.2 U	0.2 U	0.1 U	0.1 U	-----	**31,400**	**7.7**	**17**	-----
DOF-MW-6	11/19/15	**0.6**	**0.4**	-----	-----	0.1 U	**0.01 J**	-----	**21,500**	**7.6**	**9**	-----
DOF-MW-6	3/24/16	**0.4 J**	**0.5**	-----	-----	**0.02 J**	**0.02 J**	-----	**22,100**	**8**	**10**	-----
DOF-MW-6	9/27/16	**0.45**	**0.41**	-----	-----	0.10 U	0.10 U	-----	-----	**7.8**	**7.0**	-----
DOF-MW-7	11/9/12	**1.6**	**1.4**	0.5 U	0.2 U	0.1 U	0.1 U	-----	**36,500**	**10**	**14**	-----
DOF-MW-7	11/23/15	**1.0**	**0.9**	-----	-----	0.1 U	0.1 U	-----	**15,900**	**6.1**	**7**	-----
DOF-MW-7	3/25/16	**1.1**	**1.2**	-----	-----	0.2 U	0.1 U	-----	**18,200**	**7**	**6.3**	-----
DOF-MW-7	9/27/16	**0.96**	**0.98**	-----	-----	0.10 U	0.10 U	-----	-----	**4.8**	**4.6**	-----
DOF-MW-8	11/9/12	**6**	**5.6**	0.5 U	0.2 U	0.1 U	0.1 U	-----	**32,400**	**2**	**5**	-----
DOF-MW-8	11/20/15	**8.8**	**9.9**	-----	-----	0.1 U	0.1 U	-----	**28,300**	**1.7**	**3**	-----
DOF-MW-8	3/22/16	**10.1**	**9**	-----	-----	**0.02 J**	**0.01 J**	-----	**30,300**	**4**	**2.6**	-----
DOF-MW-8	9/30/16	**9.5**	**9.6**	-----	-----	0.10 U	0.10 U	-----	-----	**1.4**	**2.3**	-----
HC-B1	11/13/12	**4**	**4**	1 U	1 U	0.5 U	0.5 U	-----	**126,000**	**6**	**6**	-----
HC-B1	11/19/15	**0.45 J**	**0.3 J**	-----	-----	**0.05 J**	1 U	-----	**134,000**	**2.8**	**3 J**	-----
HC-B1	3/24/16	**0.8 J**	**0.8 J**	-----	-----	**0.05 J**	**0.05 J**	-----	**217,000**	**4**	**6**	-----
HC-B1	9/30/16	**0.64 J**	**0.5 J**	-----	-----	1.0 U	2.0 U	-----	-----	**2.4**	**2.3**	-----
HC-B2(R)	11/11/15	**2.7**	**2.6**	-----	-----	**0.03 J**	**0.04 J**	-----	**63,700**	**0.5 J**	**0.3 J**	-----
HC-B2(R)	3/23/16	**0.1 J**	**0.5**	-----	-----	**0.1 J**	**0.1**	-----	**35,700**	**0.2 J**	**1.4**	-----
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Arsenic		Beryllium		Cadmium		Calcium		Total Chromium		Hexavalent Chromium
		7440-38-2		7440-41-7		7440-43-9		7440-70-2		7440-47-3		
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L
SA-MW1	11/23/15	**3.6**	**4.1**	-----	-----	0.1 U	**0.02 J**	-----	**37,400**	**13.5**	**20**	-----
SA-MW1	3/24/16	**2.3**	**2**	-----	-----	0.2 U	0.2 U	-----	**19,300**	**13**	**15**	-----
SA-MW1	9/30/16	**4.2**	**4.1**	-----	-----	0.10 U	0.10 U	-----	-----	**25**	**29**	-----
SA-MW2	11/9/12	**0.5**	0.5 U	0.2 U	0.2 U	0.1 U	0.1 U	-----	**85,700**	**2.5**	**5**	-----
SA-MW2	11/20/15	**1**	**2**			**0.05 J**	0.5 U	-----	**117,000**	**3**	**3**	-----
SA-MW2	3/29/16	**3.7**	**4**			**0.01 J_B**	**0.02 J**	-----	**46,600**	**5**	**6**	-----
SA-MW2	9/30/16	**1.3 J**	**1.5**	-----	-----	1.0 U	**0.04 J**	-----	-----	**2.5**	**3.1**	-----
SA-MW3	11/13/12	**4**	**3**	1 U	1 U	0.5 U	0.5 U	-----	**142,000**	**4**	**4**	-----
SA-MW3	11/19/15	**0.3**	**0.7 J**	-----	-----	**0.2 J**	**0.2 J**	-----	**46,700**	**0.7**	**1 J**	-----
SA-MW3	3/28/16	**0.4 J**	**0.7**	-----	-----	**0.02 J**	**0.04 J**		**9,240**	**1**	**2**	
SA-MW3	9/27/16	**0.41**	**0.62**	-----	-----	**0.09 J**	**0.12**	-----	-----	**3.3**	**1.7**	-----
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	**1.4**	**1.6**	-----	-----	**0.01 J**	0.1 U	-----	**15,500**	**8.3**	**10**	-----
MW-Du	3/28/16	**1.8**	**2**	-----	-----	**0.02 J**	**0.01 J**	-----	**16,100**	**10**	**13**	-----
MW-Du	10/1/16	**1.8**	**2.1**	-----	-----	0.10 U	0.10 U	-----	-----	**11**	**12**	-----
MW-Eu	11/19/15	**2**	**3**	-----	-----	1 U	**0.05 J**	-----	**241,000**	**1.6**	**13**	-----
MW-Eu	3/24/16	**3**	**3**	-----	-----	**0.1 J**	**0.05 J**	-----	**269,000**	**4 J**	**9**	-----
MW-Eu	9/30/16	**2.8**	**2.4**	-----	-----	1.0 U	1.0 U	-----	-----	**2.3**	**2.1**	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Arsenic		Beryllium		Cadmium		Calcium		Total Chromium		Hexavalent Chromium
		7440-38-2		7440-41-7		7440-43-9		7440-70-2		7440-47-3		
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L
MW-Fu	11/11/15	**0.7**	**0.7**	-----	-----	**0.03 J**	**0.02 J**	-----	**136,000**	**0.25 J**	**0.2 J**	-----
MW-Fu	3/23/16	**0.2 J**	**0.2 J**	-----	-----	**0.02 J**	**0.02 J**	-----	**85,600**	**0.2 J_B**	**0.2 J_B**	-----
MW-Fu	9/28/16	**0.36**	**0.36**	-----	-----	**0.06 J**	**0.04 J**	-----	-----	**0.35 J_B**	**0.37 J_B**	-----
MW-FL	11/10/15	**1.0**	**1.3**	-----	-----	0.2 U	**0.01 J**	-----	**54,700**	**19**	**21**	-----
MW-FL	3/23/16	**0.9 J**	**1 J**	-----	-----	0.5 U	**0.05 J**	-----	**60,600**	**20**	**21**	-----
MW-FL	9/28/16	**0.75**	**0.75**	-----	-----	0.20 U	0.10 U	-----	-----	**14**	**12**	-----
MW-Gu	11/10/15	**0.8**	**0.9**	-----	-----	0.1 U	**0.01 J**	-----	**61,900**	**1.2**	**2**	-----
MW-Gu	3/23/16	**1.8**	**1.8**	-----	-----	0.2 U	**0.01 J**	-----	**124,000**	**3**	**3.3**	-----
MW-Gu	9/28/16	**0.71**	**0.55**	-----	-----	0.10 U	0.10 U	-----	-----	**0.85**	**0.80**	-----
MW-GL	11/10/15	**0.6**	**0.7**	-----	-----	0.5 U	**0.01 J**	-----	**107,000**	**1.4**	**2**	-----
MW-GL	3/23/16	**0.8 J**	**1 J**	-----	-----	**0.05 J**	**0.05 J**	-----	**110,000**	**3**	**4**	-----
MW-GL	9/28/16	**1.0 J**	**0.6 J**	-----	-----	1.0 U	1.0 U	-----	-----	**2.5 J**	**0.90**	-----
MW-HL	11/18/15	**0.25 J**	**0.3 J**	-----	-----	0.5 U	0.2 U	-----	**72,800**	**2**	**2 J**	-----
MW-HL	3/29/16	**0.2 J**	**0.4 J**	-----	-----	0.2 U	0.5 U	-----	**63,200**	**2 J**	**3**	-----
MW-HL	9/27/16	**0.16 J**	**0.19 J**	-----	-----	0.10 U	0.10 U	-----	-----	**1.6 J**	**1.0**	-----
MW-IL	11/20/15	**0.4 J**	**0.4 J**	-----	-----	1 U	0.5 U	-----	**139,000**	**3**	**4**	-----
MW-IL	3/28/16	**0.7 J**	**0.8 J**	-----	-----	0.5 U	**0.05 J**	-----	**83,400**	**5**	**6**	-----
MW-IL	9/27/16	**0.33**	**0.31**	-----	-----	0.10 U	0.10 U	-----	-----	**3.2**	**1.9**	-----
MW-Ju	11/20/15	**2.0**	**2.2**	-----	-----	**0.01 J**	**0.02 J**	-----	**45,000**	**2.5**	**3**	-----
MW-Ju	3/28/16	**3.3**	**3**	-----	-----	0.2 U	**0.04 J**	-----	**24,600**	**2**	**2**	-----
MW-Ju	9/27/16	**1.2**	**2.5**	-----	-----	0.10 U	**0.12**	-----	-----	**1.6 J**	**3.4**	-----
MW-Ku	11/10/15	**0.4**	**0.5**	-----	-----	**0.02 J**	**0.03 J**	-----	**33,200**	**0.42**	**0.6**	-----
MW-Ku	3/22/16	**0.5**	**0.7**	-----	-----	**0.07 J**	**0.07 J**	-----	**36,800**	**0.5**	**0.9**	-----
MW-Ku	9/28/16	**1.1**	**1.2**	-----	-----	0.20 U	**0.04 J**	-----	-----	**1.5**	**1.4**	-----
MW-KL	11/10/15	**0.3**	**0.5**	-----	-----	0.2 U	**0.01 J**	-----	**43,600**	**3**	**3**	-----
MW-KL	3/22/16	**0.5 J**	**0.3 J**	-----	-----	0.5 U	**0.05 J**	-----	**43,600**	**3**	**3**	-----
MW-KL	9/28/16	**0.6 J**	**0.30**	-----	-----	1.0 U	1.0 U	-----	-----	**3.6 J**	**1.3**	-----
Seep 1	5/4/07	**6.6**	**7.5**	-	-	**0.017 J**	**0.119**	-	-	**2.7**	**4.9**	-----
Seep 1	7/5/12	**5**	-	1 U	-	0.5 U	**-**	**74,100**	-	2 U	-	-----
Seep 2	5/7/07	**7.4**	**7.0**	-	-	**0.046**	**0.071**	-	-	**3.1**	**2.0**	-----
Seep 2	7/5/12	**4**	-	1 U	-	0.5 U	-	**76,200**	-	**2**	-	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Arsenic		Beryllium		Cadmium		Calcium		Total Chromium		Hexavalent Chromium
		7440-38-2		7440-41-7		7440-43-9		7440-70-2		7440-47-3		
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L
Number of Samples		108	106	35	33	108	106	2	82	108	106	22
Number of Detects		102	104	3	10	27	47	2	82	95	105	0
Percent Detected		94.4%	98.1%	8.6%	30.3%	25.0%	44.3%	100.0%	100.0%	88.0%	99.1%	0.0%
Highest Conc.		29	28	0.80	0.80	0.20	1.2	76200	643000	75	121	<34

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
nd - Not detected
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Copper		Lead		Magnesium		Mercury		Nickel		Silver	
		7440-50-8		7439-92-1		7439-95-4		7439-97-6		7440-02-0		7440-22-4	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Push-Probes	**SLs**	3.1	3.1	8.1	8.1	-----	-----	25	25	8.2	8.2	1.9	1.9
P11	11/17/14	**0.6**	**1.7**	0.1 U	**1.5**	-----	**20,000**	20.0 U	20.0 U	**1.6**	**1.7**	0.5 U	0.5 U
P12	11/17/14	**3**	**5**	**0.4**	**1.1**	-----	**18,800**	20.0 U	20.0 U	**5**	**6**	1 U	1 U
P13	11/13/14	**0.8**	**4.3**	**0.1**	**0.7**	-----	**13,600**	20.0 U	20.0 U	**3.5**	**3.5**	0.5 U	0.5 U
P14	11/14/14	0.5 U	**2.0**	**0.3**	**7.0**	-----	**18,100**	20.0 U	20.0 U	**1.5**	**1.8**	0.2 U	0.2 U
P15	11/14/14	0.5 U	**2.2**	**0.1**	**3.3**	-----	**2470**	20.0 U	20.0 U	**4.8**	**5.1**	0.2 U	0.2 U
P16	12/10/14	0.5 U	**24**	0.1 U	**13**	-----	**102,000**	20.0 U	**52**	**3.9**	**14**	0.2 U	0.2 U
P18A	12/16/14	**0.5**	**31**	0.1 U	**39**	-----	**73,000**	20.0 U	**211**	**4.4**	**18**	0.2 U	**0.3**
P18B	12/16/14	2 U	**7**	0.5 U	**7.9**	-----	**755,000**	20.0 U	20.0 U	**12**	**14**	1 U	1 U
P20	11/12/14	**1.0**	**14**	0.1 U	**1.6**	-----	**46,800**	20.0 U	20.0 U	**2.0**	**14**	0.2 U	0.2 U
P21A	12/8/14	0.5 U	**9.4**	0.5 U	**5**	-----	**44,700**	20.0 U	**33**	**4.1**	**8.3**	0.2 U	0.2 U
P21B	12/8/14	5 U	**18**	1 U	**9**	-----	**561,000**	20.0 U	**76**	**9**	**18**	2 U	2 U
P23	11/12/14	0.5 U	**4**	0.1 U	**0.6**	-----	**44,900**	20.0 U	20.0 U	**1.4**	**5**	0.2 U	0.2 U
P26	11/13/14	**3**	**4**	0.5 U	**0.6**	-----	**415,000**	20.0 U	20.0 U	**6**	**6**	1 U	1 U
P27A	11/11/14	**2**	**12**	0.2 U	**1.8**	-----	**173,000**	20.0 U	20.0 U	**2**	**7**	0.5 U	0.5 U
P27B	11/11/14	**2**	**116**	0.2 U	**197**	-----	**639,000**	20.0 U	**182**	**14**	**46**	0.5 U	**0.7**
P28	12/15/14	**1**	**14**	0.2 U	**1.6**	-----	**191,000**	20.0 U	**22.5**	**3**	**8**	0.5 U	0.5 U
P29	12/10/14	**1**	**66**	**0.4**	**62**	-----	**111,000**	20.0 U	**218**	**3**	**39**	0.5 U	0.5 U
P30	12/9/14	**27**	**30**	**5.0**	**5.7**	-----	**193,000**	**26**	**48**	**18**	**19**	1 U	1 U
P31	12/9/14	1 U	**1**	0.2 U	1 U	-----	**99,200**	20.0 U	20.0 U	**2**	**3**	0.5 U	2 U
P32A	12/15/14	**0.6**	**52.4**	0.1 U	**8.6**	-----	**131,000**	20.0 U	**35**	**2.0**	**23**	0.2 U	0.2 U
P32B	12/15/14	1 U	**21**	0.2 U	**2.8**	-----	**97,400**	20.0 U	20.0 U	**2**	**8**	0.5 U	0.5 U
P33A	12/8/14	**0.6**	**7.2**	0.5 U	**5.1**	-----	**43,700**	20.0 U	**22**	**3.8**	**7.8**	0.2 U	0.2 U
P33B	12/8/14	-----	-----	-----	-----	-----	**41,400**	-----	-----	-----	-----	-----	-----
Monitoring Wells													
DOF-MW-1	11/8/12	5 U	**4**	1 U	**2**	-----	**170,000**	0.1 U	0.1 U	**8**	**8**	2 U	2 U
DOF-MW-1	11/11/15	**1.1 J**	**22**	**1**	**20**	-----	**284,000**	**9.5 J**	**77**	**2**	**12**	2 U	**0.05 J**
DOF-MW-1	3/22/16	**0.5 J**	**24**	**0.2 J**	**15**	-----	**266,000**	**4 J**	**58**	**6**	**17**	**0.05 J**	**0.1 J**
DOF-MW-1	9/26/16	1 U	**2.2 J**	0.20 U	**0.62**	-----	-----	20 U	20 U	**7.6**	**8.6**	0.40 U	2.0 U
DOF-MW-2	11/8/12	**5.2**	**23**	**0.3**	**1.1**	-----	**22,100**	0.1 U	0.1 U	**1.7**	**2.1**	1 U	1 U
DOF-MW-2	11/11/15	**15**	**15**	**1.0**	**1.0**	-----	**20,300**	**14 J**	**15 J**	**1.5**	**1.8**	**0.2 J**	**0.2 J**
DOF-MW-2	3/22/16	**15**	**16**	**1.1**	**1.2**	-----	**18,100**	**12 J**	**14 J**	**1**	**1.4**	**0.2 J**	**0.2 J**
DOF-MW-2	9/26/16	**15**	**16**	**1.1**	**1.0**	-----	-----	20 U	20 U	**1.5**	**1.5 J_B**	**0.14 J**	**0.14 J**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Copper		Lead		Magnesium		Mercury		Nickel		Silver	
		7440-50-8		7439-92-1		7439-95-4		7439-97-6		7440-02-0		7440-22-4	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
DOF-MW-3	11/8/12	**1.7**	**5.3**	0.1 U	**0.7**	-----	**40,500**	0.1 U	0.1 U	**1.4**	**1.4**	1 U	1 U
DOF-MW-3	11/20/15	**9**	**10**	**0.7**	**0.7**	-----	**56,300**	**13 J**	**14 J**	**2**	**2**	**0.1 J**	**0.1 J**
DOF-MW-3	3/24/16	**11**	**11**	**0.8**	**1.8**	-----	**51,000**	**15 J**	**15 J**	**2**	**2**	**0.2 J**	**0.1 J**
DOF-MW-3	9/26/16	**11**	**11**	**0.94**	**0.88**	-----	-----	20 U	20 U	**1.7**	**2.0 J**	**0.14 J**	**0.13 J**
DOF-MW-4	11/8/12	**7.4**	**15**	**0.4**	**0.9**	-----	**24,800**	0.1 U	0.1 U	**1.5**	**1.7**	1 U	1 U
DOF-MW-4	11/11/15	**15**	**16**	**1.0**	**0.9**	-----	**20,400**	**12 J**	**14 J**	**1.3**	**1.3**	**0.1 J**	**0.1 J**
DOF-MW-4	3/29/16	**14**	**16**	**0.9**	**0.9**	-----	**18,300**	**10 J**	**22**	**1.3**	**1.3**	**0.1 J**	**0.1 J**
DOF-MW-4	9/26/16	**19**	**18**	**1.2**	**1.1**	-----	-----	20 U	20 U	**1.4**	**1.2 J_B**	**0.12 J**	**0.13 J**
DOF-MW-5	11/8/12	**2.1**	**7.0**	**0.1**	**0.3**	-----	**10,900**	0.1 U	0.1 U	**0.8**	**1.0**	0.5 U	1 U
DOF-MW-5	11/20/15	**2.7**	**3.7**	**0.2**	**0.2**	-----	**17,800**	20 U	**3.6 J**	**0.47 J**	**0.6**	**0.02 J**	**0.2 J**
DOF-MW-5	3/29/16	**2.8**	**3**	**4.5**	**0.2 J**	-----	**19,500**	**3 J**	20 U	**0.5 J**	**0.4 J**	**0.03 J**	**0.02 J**
DOF-MW-5	9/26/16	**4.1**	**4.1**	**0.30**	**0.29**	-----	-----	20 U	20 U	**0.5 J**	**0.4 J_B**	**0.4 U**	1.0 U
DOF-MW-6	11/9/12	1 U	**6.6**	**0.1**	**1.4**	-----	**37,800**	0.1 U	0.1 U	**1.7**	**2.3**	0.2 U	0.2 U
DOF-MW-6	11/19/15	**1.9**	**2.5**	**0.1**	**0.2**	-----	**23,600**	**3.3 J**	**3.8 J**	**0.8**	**0.8**	**0.02 J**	**0.01 J**
DOF-MW-6	3/24/16	**2**	**3**	**0.1 J**	**0.3**	-----	**27,000**	20 U	20 U	**0.9 J**	**1**	**0.02 J**	**0.02 J**
DOF-MW-6	9/27/16	**1.7**	**1.7**	**0.15**	**0.17**	-----	-----	20 U	**65**	**1.0**	**1.0 J_B**	**0.02 J**	**0.02 J**
DOF-MW-7	11/9/12	**1.8**	**3.6**	0.1 U	**0.4**	-----	**28,200**	0.1 U	0.1 U	**2**	**2.4**	0.2 U	0.2 U
DOF-MW-7	11/23/15	**0.25**	**0.3 J**	**0.1**	**0.02 J**	-----	**4,070**	20 U	**4.5 J**	**1.4**	**1.5**	**0.02 J**	**0.01 J**
DOF-MW-7	3/25/16	**0.1 J_B**	**0.1 J_B**	**0.02 J_B**	**0.04 J_B**	-----	**4,310**	20 U	20 U	**1**	**1.4**	**0.02 J**	**0.01 J**
DOF-MW-7	9/27/16	5 U	0.50 U	0.10 U	**0.15**	-----	-----	20 U	20 U	**1.6 J**	**1.4 J_B**	0.20 U	0.20 U
DOF-MW-8	11/9/12	**0.6**	**3.4**	**0.5**	**13.5**	-----	**35,100**	0.1 U	0.1 U	**7**	**7.6**	0.2 U	0.2 U
DOF-MW-8	11/20/15	**0.26 J**	**1.0**	**0.2**	**2.8**	-----	**30,300**	20 U	**15 J**	**4.5**	**5.2**	**0.01 J**	**0.01 J**
DOF-MW-8	3/22/16	**0.2 J**	**0.8**	**0.04 J**	**2.7**	-----	**33,000**	20 U	**11 J**	**5**	**5**	**0.02 J**	**0.01 J**
DOF-MW-8	9/30/16	0.5 U	**1.1**	0.10 U	**3.1**	-----	-----	20 U	20 U	**4.7**	**5.1**	0.20 U	0.20 U
HC-B1	11/13/12	2 U	2 U	0.5 U	0.5 U	-----	**205,000**	0.1 U	0.1 U	**6**	**7**	1 U	1 U
HC-B1	11/19/15	**0.3 J**	5 U	**0.06 J**	**0.04 J**	-----	**230,000**	20 U	20 U	**0.3 J**	**0.3 J**	1 U	2 U
HC-B1	3/24/16	**0.3 J**	**0.5 J**	**0.2 J**	**0.3 J**	-----	**366,000**	**3 J**	20 U	**0.4 J**	**0.4 J**	1 U	1 U
HC-B1	9/30/16	5 U	10 U	1 U	2 U	-----	-----	20 U	20 U	**0.5 J**	**2.4 J**	2.0 U	4.0 U
HC-B2(R)	11/11/15	**0.4 J**	0.4 J	**0.03 J**	**0.2**	-----	**7,910**	20 U	**3.1 J_B**	**2.3**	**2.3**	0.2 U	0.2 U
HC-B2(R)	3/23/16	**2.7**	**3.6**	**0.02 J**	**5.9**	-----	**3,100**	**3 J**	**20 J**	**2.3**	**2.5**	**0.01 J**	**0.03 J**
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Copper		Lead		Magnesium		Mercury		Nickel		Silver	
		7440-50-8		7439-92-1		7439-95-4		7439-97-6		7440-02-0		7440-22-4	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
SA-MW1	11/23/15	**1.8**	3.3	**1.0**	**2.0**	-----	**31,700**	**16.6 J**	**51.5**	**10**	**10**	**0.1 J**	**0.2 J**
SA-MW1	3/24/16	**1.0 J**	**3**	**0.7**	**1.8**	-----	**17,400**	**6 J**	**15 J**	**2**	**3**	**0.1 J**	**0.1 J**
SA-MW1	9/30/16	**1.5**	**2.7**	**1.6**	**2.4**	-----	-----	20 U	20 U	**3.2**	**3.4**	**0.32**	**0.28**
SA-MW2	11/9/12	2 U	**1.0**	0.1 U	**0.6**	-----	**156,000**	0.1 U	0.1 U	**4.7**	**4.1**	0.2 U	0.2 U
SA-MW2	11/20/15	**0.4 J**	**1 J**	**0.1 J**	**0.6**	-----	**189,000**	20 U	**4.1 J**	**3**	**4**	2 U	1 U
SA-MW2	3/29/16	**0.3 J**	**0.7 J**	**0.1**	**0.8**	-----	**31,100**	20 U	**6 J**	**2.7**	**3**	**0.01 J**	**0.02 J**
SA-MW2	9/30/16	5 U	**0.54**	1 U	**0.96**	-----	-----	20 U	20 U	**1.5 J**	**1.8**	2.0 U	2.0 U
SA-MW3	11/13/12	**4**	**4**	0.5 U	0.5 U	-----	**312,000**	0.1 U	0.1 U	**11**	**10**	1 U	1 U
SA-MW3	11/19/15	**4.3**	**5**	**0.01 J**	**0.05 J**	-----	**103,000**	**6.8 J**	**7.3 J**	**2.0**	**3**	1 U	**0.05 J**
SA-MW3	3/28/16	**4**	**5**	**0.08 J**	**0.2 J**	-----	**20,900**	**9 J**	**10 J**	**0.8 J**	**0.9 J**	**0.02 J**	**0.04 J**
SA-MW3	9/27/16	**9.2**	**7.4**	0.50 U	**0.12**	-----	-----	20 U	**36**	**2.6**	**2.6**	1.0 U	**0.03 J**
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	**3.1**	**4**	**0.7**	**1.0**	-----	**13,000**	**5.9 J**	**6.6 J**	**1.7**	**2.1**	**0.02 J**	**0.02 J**
MW-Du	3/28/16	**3**	**4**	**0.3**	**1.2**	-----	**12,600**	**4 J_B**	**17 J**	**0.8 J**	**1.0**	**0.02 J**	**0.03 J**
MW-Du	10/1/16	**4.1**	**4.7**	**0.29**	**0.62**	-----	-----	20 U	20 U	**0.74**	**1.27 J_B**	**0.02 J**	**0.02 J**
MW-Eu	11/19/15	**0.5 J**	**8**	**1.0**	**23.4**	-----	**370,000**	**4.4 J**	**48.7**	**3**	**8**	2 U	**0.05 J**
MW-Eu	3/24/16	**0.4 J**	**2 J**	**0.1 J**	**9.4**	-----	**531,000**	**5 J**	**15 J**	**2 J**	**3**	**0.1 J**	**0.05 J**
MW-Eu	9/30/16	5 U	5 U	1 U	1 U	-----	-----	20 U	20 U	**0.8 J**	**1.4 J_B**	2.0 U	2.0 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Copper		Lead		Magnesium		Mercury		Nickel		Silver	
		7440-50-8		7439-92-1		7439-95-4		7439-97-6		7440-02-0		7440-22-4	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
MW-Fu	11/11/15	**2.2**	**2.2**	**0.01 J_B**	**0.01 J**	-----	**24,100**	**5.0 J**	20.0 U	**3.0**	**3**	0.2 U	0.2 U
MW-Fu	3/23/16	**2.1**	**1.9**	**0.01 J_B**	**0.01 J**	-----	**14,300**	20 U	20 U	**1.3**	**1.3**	**0.01 J**	0.2 U
MW-Fu	9/28/16	**3.3**	**3.1**	0.10 U	0.10 U	-----	-----	20 U	20 U	**3.4**	**3.3**	0.20 U	0.20 U
MW-FL	11/10/15	**0.8**	**2.1**	**0.09 J**	**0.4**	-----	**103,000**	**2.7 J**	**6.4 J**	**1.0**	**3.1**	**0.05 J**	**0.07 J**
MW-FL	3/23/16	**0.9 J**	**4**	**0.1 J**	**0.3 J**	-----	**122,000**	**4 J**	**5 J**	**1 J**	**1 J**	**0.05 J**	**0.05 J**
MW-FL	9/28/16	1.0 U	**0.75**	0.20 U	**0.08 J**	-----	-----	20 U	**49**	**0.82 J**	**1.4 J_B**	**0.05 J**	**0.04 J**
MW-Gu	11/10/15	**0.17 J**	**0.6**	**0.07 J**	**0.2**	-----	**98,400**	20.0 U	**5.9 J**	**0.7**	**1.8**	0.2 U	**0.01 J**
MW-Gu	3/23/16	**0.8 J**	**1.3**	**0.3**	**0.5**	-----	**126,000**	**3 J**	20 U	**1**	**1.3**	**0.02 J**	**0.01 J**
MW-Gu	9/28/16	10 U	**1.5**	0.10 U	**0.14**	-----	-----	20 U	20 U	10 U	**1.1 J_B**	0.20 U	0.20 U
MW-GL	11/10/15	**0.18 J**	**1.0**	**0.03 J**	**0.1**	-----	**231,000**	20.0 U	**2.7 J_B**	**0.52 J**	**0.9**	1 U	**0.01 J**
MW-GL	3/23/16	**0.3 J**	**0.4 J**	**0.05 J**	**0.2 J**	-----	**252,000**	20 U	20 U	**0.4 J**	**0.4 J**	1 U	1 U
MW-GL	9/28/16	5 U	10 U	1.0 U	1.0 U	-----	-----	20 U	20 U	5.0 U	10 U	2.0 U	2.0 U
MW-HL	11/18/15	**0.35 J**	**0.4 J**	**1.0**	**1.1**	-----	**130,000**	**7.0 J**	**6.7 J**	**0.28 J**	**0.7 J**	1 U	1 U
MW-HL	3/29/16	**0.3 J**	**0.7 J**	**0.04 J**	**0.3 J**	-----	**119,000**	20 U	**10 J**	**0.2 J**	**0.4 J**	0.4 U	1 U
MW-HL	9/27/16	2.5 U	**2.4**	0.50 U	**0.09 J**	-----	-----	20 U	20 U	2.5 U	**0.23 J_B**	1.0 U	0.20 U
MW-IL	11/20/15	**0.4 J**	**0.8 J**	**0.1 J**	**0.3 J**	-----	**220,000**	20.0 U	**5.1 J**	**0.5 J**	**0.5 J**	2 U	1 U
MW-IL	3/28/16	**0.3 J**	**0.6 J**	**0.1 J**	**0.5 J**	-----	**122,000**	**13 J**	**37**	**1 J**	**1 J**	1 U	1 U
MW-IL	9/27/16	2.5 U	0.50 U	0.50 U	**0.07 J**	-----	-----	20 U	**140**	**0.6 J**	**0.56 J_B**	1.0 U	0.20 U
MW-Ju	11/20/15	**1.2**	**2.0**	**2.4**	**2.8**	-----	**42,100**	**15 J**	**13 J**	**4.6**	**5**	0.5 U	**0.01 J**
MW-Ju	3/28/16	**1 J**	**3**	**1.3**	**4.4**	-----	**22,900**	**7 J**	**13 J**	**3 J**	**3**	0.4 U	**0.02 J**
MW-Ju	9/27/16	2.5 U	**5.0**	0.50 U	**9.8**	-----	-----	20 U	**59**	**1.0 J**	**2.9**	1.0 U	**0.02 J**
MW-Ku	11/10/15	**3.0**	**3.3**	**0.02 J_B**	**0.05 J**	-----	**9,330**	20.0 U	20.0 U	**3.6**	**3.6**	0.2 U	0.2 U
MW-Ku	3/22/16	**2.7**	**3**	**0.01 J**	**0.2**	-----	**6,890**	20 U	20 U	**3.1**	**3**	0.2 U	0.2 U
MW-Ku	9/28/16	**1.5**	**2.0**	0.20 U	**0.07 J**	-----	-----	20 U	20 U	**2.8**	**3.9**	0.40 U	0.40 U
MW-KL	11/10/15	**0.7**	**1.5**	**0.6**	**0.8**	-----	**112,000**	**3.6 J**	**5.8 J**	**0.6**	**1.0**	**0.01 J**	**0.01 J**
MW-KL	3/22/16	**0.20 J**	**0.40 J**	**0.05 J**	**0.20 J**	-----	**115,000**	20 U	**5 J**	**0.5 J**	**0.5 J**	**0.05 J**	1 U
MW-KL	9/28/16	5 U	**1.2**	1.0 U	1.0 U	-----	-----	20 U	20 U	**0.9 J**	**1.3 J_B**	2.0 U	2.0 U
Seep 1	5/4/07	**1.8**	**7.1**	**0.16**	**11.8**	-	-	200 U	**40 J**	**-**	-	**0.01 J**	**0.04**
Seep 1	7/5/12	2 U	-	0.2 U	**-**	**173,000**	-	100 U	-	**4**	-	1 U	-
Seep 2	5/7/07	**1.9**	**2.3**	**0.25**	**0.84**	**-**	-	200 U	200 U	**-**	-	**0.008 J**	**0.01 J**
Seep 2	7/5/12	2 U	-	0.2 U	-	**179,000**	-	100 U	-	**6**	-	1 U	**-**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Copper		Lead		Magnesium		Mercury		Nickel		Silver	
		7440-50-8		7439-92-1		7439-95-4		7439-97-6		7440-02-0		7440-22-4	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Number of Samples		108	106	108	106	2	81	108	106	106	104	108	104
Number of Detects		82	98	71	99	2	81	32	53	103	103	41	47
Percent Detected		75.9%	92.5%	65.7%	93.4%	100.0%	100.0%	29.6%	50.0%	97.2%	99.0%	38.0%	45.2%
Highest Conc.		27	116	5.0	197	179000	755000	26	218	18	46	0.20	0.70

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
nd - Not detected
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Sodium	Zinc		Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane
						Gasoline-range	Diesel-range	Lube-range				
		7440-23-5	7440-66-6						74-87-3	74-83-9	75-01-4	75-00-3
		total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	-----	81	81	-----	0.8	0.5	0.5	150	-----	0.18	19000
P11	11/17/14	**70,200**	**4**	**5**	**120**	0.25 U	0.10 U	0.20 U	2.5 U	5.0 U	1.0 U	1.0 U
P12	11/17/14	**314,000**	10 U	10 U	**150**	0.25 U	0.10 U	0.20 U	2.5 U	5.0 U	**0.6**	**0.9**
P13	11/13/14	**186,000**	**9**	**10**	**96**	0.25 U	**0.12**	0.20 U	2.5 U	5.0 U	1.0 U	1.0 U
P14	11/14/14	**124,000**	**6**	**12**	**190**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**2.1**	0.20 U
P15	11/14/14	**431,000**	4 U	**7**	**43**	**1.8**	**0.17**	0.20 U	2.5 U	5.0 U	**8.8**	**15**
P16	12/10/14	**419,000**	4 U	**37**	**560**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.44**	0.20 U
P18A	12/16/14	**730,000**	4 U	**80**	**480**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.23**
P18B	12/16/14	**4,080,000**	20 U	20 U	**4600**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P20	11/12/14	**34,800**	4 U	**20**	**690**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P21A	12/8/14	**195,000**	**6**	**18**	**260**	0.25 U	**2.2**	**0.84**	0.50 U	1.0 U	**0.72 Jq**	**4.7**
P21B	12/8/14	**2,730,000**	40 U	**40**	**3900**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P23	11/12/14	**22,200**	**5**	**10**	**350**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P26	11/13/14	**3,200,000**	20 U	20 U	**2200**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P27A	11/11/14	**2,460,000**	10 U	**20**	**890**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P27B	11/11/14	**2,000,000**	**30**	**320**	**4000**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P28	12/15/14	**1,700,000**	10 U	**20**	**1100**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P29	12/10/14	**750,000**	10 U	**130**	**760**	0.25 U	**0.26**	**0.70**	0.50 U	1.0 U	0.20 U	0.20 U
P30	12/9/14	**1,840,000**	**40**	**40**	**1100**	0.25 U	**2.0**	1.0	0.50 U	1.0 U	0.20 U	0.20 U
P31	12/9/14	**983,000**	10 U	**90**	**570**	0.25 U	**0.51**	**0.32**	0.50 U	1.0 U	0.20 U	0.20 U
P32A	12/15/14	**510,000**	**6**	**59**	**710**	0.25 U	**0.12**	0.20 U	0.50 U	1.0 U	**0.42**	**0.12 J**
P32B	12/15/14	**1,360,000**	10 U	**40**	**560**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
P33A	12/8/14	**54,000**	**8**	**29**	**250**	0.25 U	**0.36**	0.20 U	0.50 U	1.0 U	0.20 U	**3.6**
P33B	12/8/14	**561,000**	-----	-----	**310**	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells												
DOF-MW-1	11/8/12	-----	40 U	40 U	**1000**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-1	11/11/15	**2,030,000**	**4.5 J**	**40**	**1500**	**0.04 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-1	3/22/16	**2,120,000**	**3 J_B**	**60**	**1433**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-1	9/26/16	-----	**2 J_B**	20 U	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-2	11/8/12	-----	4 U	**7**	**130**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.19**	0.20 U
DOF-MW-2	11/11/15	**484,000**	**3.8 J**	**5**	**120**	**0.04 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-2	3/22/16	**454,000**	**4 J_B**	**3 J**	**106**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.08 J**	0.20 U
DOF-MW-2	9/26/16	-----	**4 J**	**4 J**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Sodium	Zinc		Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane
						Gasoline-range	Diesel-range	Lube-range				
		7440-23-5	7440-66-6						74-87-3	74-83-9	75-01-4	75-00-3
		total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	-----	4 U	**4**	**210**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.15**	0.20 U
DOF-MW-3	11/20/15	**425,000**	**3.3 J**	**3 J**	**290**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.21**	0.20 U
DOF-MW-3	3/24/16	**399,000**	**4 J_B**	**5 J**	**264**	0.20 U	0.10 U	0.20 U	1.0 U	2.0 U	0.40 U	0.40 U
DOF-MW-3	9/26/16	-----	**5 J**	**3 J**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.19 J**	0.20 U
DOF-MW-4	11/8/12	-----	**5**	**5**	**140**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.17**	0.20 U
DOF-MW-4	11/11/15	**369,000**	**3.3 J**	**3 J**	**120**	**0.03 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-4	3/29/16	**323,000**	**3 J**	**3 J**	**107**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-4	9/26/16	-----	**5 J**	**5 J**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.14 J**	0.20 U
DOF-MW-5	11/8/12	-----	4 U	4 U	**63**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-5	11/20/15	**235,000**	**1.1 J**	**1 J**	**100**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-5	3/29/16	**231,000**	**1.3(a)**	**1.0(a)**	**111**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DOF-MW-5	9/26/16	-----	**3 J**	8 U	-----	0.10 U	0.10 U	0.20 U	**0.11 J**	1.0 U	0.20 U	0.20 U
DOF-MW-6	11/9/12	-----	4 U	4 U	**230**	**0.22**	0.10 U	0.20 U	0.50 U	1.0 U	**0.33**	**0.65**
DOF-MW-6	11/19/15	**241,000**	**48**	**52**	**150**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.12 J**	**0.22**
DOF-MW-6	3/24/16	**252,000**	**228 (b)**	**430(b)**	**166**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.36 J_Q**
DOF-MW-6	9/27/16	-----	**29**	**31**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.26**	**0.39**
DOF-MW-7	11/9/12	-----	4 U	4 U	**210**	**0.5**	**0.41**	0.20 U	0.50 U	1.0 U	**2.1**	**4.8**
DOF-MW-7	11/23/15	**369,000**	**0.96 J**	0.5 J	**57**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.43**	**3.4**
DOF-MW-7	3/25/16	**385,000**	**0.6 J**	4 U	**63**	**0.09 J**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**8.4 J_Q**
DOF-MW-7	9/27/16	-----	4 U	**1 J_B**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.48**	**3.0**
DOF-MW-8	11/9/12	-----	4 U	**11**	**230**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.89**	**3.3**
DOF-MW-8	11/20/15	**121,000**	**0.6 J**	**3 J**	**200**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.86**	**3.9**
DOF-MW-8	3/22/16	**129,000**	**1 J_B**	**1 J**	**212**	**0.10**	0.10 U	0.20 U	0.50 U	1.0 U	**0.47**	**7.1**
DOF-MW-8	9/30/16	-----	**1 J_B**	**3 J**	-----	**0.12**	0.10 U	0.20 U	0.50 U	1.0 U	**1.0**	**3.8**
HC-B1	11/13/12	-----	20 U	20 U	**1200**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
HC-B1	11/19/15	**2,080,000**	**1.1 J**	40 U	**1300**	**0.03 J**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
HC-B1	3/24/16	**2,660,000**	20 U	**5 J**	**2050**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
HC-B1	9/30/16	-----	40 U	80 U	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
HC-B2(R)	11/11/15	**6,900**	**9**	**10**	**190**	**0.03 J_B**	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
HC-B2(R)	3/23/16	**3,520**	**16**	**19**	**102**	0.10 U	0.10 U	0.20 U	**0.10 J**	1.0 U	0.20 U	0.20 U
HC-B2R	9/30/16	-----	-----	-----	-----	0.10 U	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Sodium	Zinc		Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane
						Gasoline-range	Diesel-range	Lube-range				
		7440-23-5	7440-66-6						74-87-3	74-83-9	75-01-4	75-00-3
		total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	**751,000**	**2.3 J**	**5**	**220**	**1.4**	**0.47 (MS)**	**0.30**	0.50 U	1.0 U	**2.5**	**0.96**
SA-MW1	3/24/16	**828,000**	**4 J_B**	**5 J**	**120**	**2.8**	**0.81 (MS)**	**1.2**	0.50 U	1.0 U	**19**	**1.5 J_Q**
SA-MW1	9/30/16	-----	**6.9**	**8.6**	-----	**2.5**	**0.69**	**0.94**	0.50 U	1.0 U	**6.2**	**2.9**
SA-MW2	11/9/12	-----	4 U	4 U	**860**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
SA-MW2	11/20/15	**1,600,000**	**1.6 J**	**2 J**	**1100**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
SA-MW2	3/29/16	**329,000**	**0.6 J_B**	**4 J**	**245**	**0.24**	**0.15**	0.20 U	**0.12 J**	1.0 U	0.20 U	**5.6 J_Q**
SA-MW2	9/30/16	-----	40 U	**3 J**	-----	0.10 U	0.10 U	0.20 U	**0.22 J_B**	1.0 U	0.20 U	0.20 U
SA-MW3	11/13/12	-----	**30**		**1600**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
SA-MW3	11/19/15	**1,540,000**	**7**	**12 J**	**540**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
SA-MW3	3/28/16	**520,000**	**9 J**	**4 J**	**109**	0.10 U	0.10 U	0.20 U	**0.19 J**	1.0 U	0.20 U	0.20 U
SA-MW3	9/27/16	-----	**5.9**	**6.4**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
MW-Ap	3/25/16	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
MW-Bp	3/25/16	-----	-----	-----	-----	-----	-----	-----	**0.21 J**	1.0 U	0.20 U	0.20 U
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
MW-Cp	3/25/16	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	**0.20**
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	**0.07 J**	0.20 U
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	**0.61**	0.20 U
MW-Dp	3/28/16	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	0.20 U	0.20 U
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	0.50 U	1.0 U	**0.20**	0.20 U
MW-Du	11/18/15	**156,000**	**5**	**6**	**92**	**0.04 J**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Du	3/28/16	**153,000**	**3 J**	**2 J**	**92**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.35 J_Q**
MW-Du	10/1/16	-----	**1 J_B**	**5.2**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Eu	11/19/15	**2,730,000**	**3.4 J**	**27 J**	**2100**	**0.06 J**	**0.67 (MS)**	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Eu	3/24/16	**3,360,000**	40 U	**16 J**	**2860**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Eu	9/30/16	-----	40 U	40 U	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Sodium	Zinc		Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane
						Gasoline-range	Diesel-range	Lube-range				
		7440-23-5	7440-66-6						74-87-3	74-83-9	75-01-4	75-00-3
		total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	**55,200**	**1.4 J**	**2 J**	**440**	**0.03 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Fu	3/23/16	**20,700**	**1 J**	**0.7 J**	**273**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Fu	9/28/16	-----	**2 J_B**	**2 J_B**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-FL	11/10/15	**1,060,000**	**0.96 J**	**2 J**	**560**	**0.03 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.15 J**
MW-FL	3/23/16	**1,100,000**	**1 J**	**7 J**	**654**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.06 J**	**0.40**
MW-FL	9/28/16	-----	8 U	**1 J_B**	-----	0.10 U	0.10 U	0.20 U	**0.14 J**	1.0 U	**0.06 J**	**0.17 J**
MW-Gu	11/10/15	**61,300**	**1.9 J**	**3 J**	**560**	**0.03 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Gu	3/23/16	**123,000**	**1 J**	**2 J**	**829**	0.10 U	0.10 U	0.20 U	**0.12 J_B**	1.0 U	0.20 U	0.20 U
MW-Gu	9/28/16	-----	**1 J_B**	**1 J_B**	-----	0.10 U	0.10 U	0.20 U	**0.12 J**	1.0 U	0.20 U	0.20 U
MW-GL	11/10/15	**1,910,000**	**3.1 J**	**1 J**	**1200**	**0.03 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-GL	3/23/16	**2,020,000**	20 U	**6 J**	**1313**	0.10 U	0.10 U	0.20 U	**0.11 J_B**	1.0 U	0.20 U	0.20 U
MW-GL	9/28/16	-----	40 U	40 U	-----	0.10 U	0.10 U	0.20 U	**0.11 J**	1.0 U	0.20 U	0.20 U
MW-HL	11/18/15	**1,200,000**	**2.6 J**	**3 J**	**720**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-HL	3/29/16	**1,020,000**	**3 J**	**6 J**	**648**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-HL	9/27/16	-----	**1 J_B**	**1 J_B**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.07 J**	0.20 U
MW-IL	11/20/15	**1,720,000**	**1.6 J**	**1 J**	**1300**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-IL	3/28/16	**1,110,000**	**11 J**	**11 J**	**711**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-IL	9/27/16	-----	**1 J_B**	**1 J_B**	-----	0.10 U	0.10 U	0.20 U	**0.10 J**	1.0 U	**0.12 J**	**0.24**
MW-Ju	11/20/15	**460,000**	**2.6 J**	**3 J**	**290**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.06 J**	0.20 U
MW-Ju	3/28/16	**268,000**	**19**	**30**	**156**	0.10 U	0.10 U	**0.32**	0.50 U	1.0 U	0.20 U	0.20 U
MW-Ju	9/27/16	-----	**1 J_B**	**48**	-----	0.10 U	**0.11**	**0.63**	0.50 U	1.0 U	**0.09 J**	0.20 U
MW-Ku	11/10/15	**25,300**	**2.7 J**	**3 J**	**120**	**0.03 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Ku	3/22/16	**37,000**	**10**	**11**	**120**	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-Ku	9/28/16	-----	**5**	**3 J**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-KL	11/10/15	**1,060,000**	**1.8 J**	**18**	**570**	**0.03 J_B**	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
MW-KL	3/22/16	**1,180,000**	20 U	**3 J**	**583**	0.10 U	0.10 U	0.20 U	**0.10 J_B**	1.0 U	**0.07 J**	0.20 U
MW-KL	9/28/16	-----	**17 J**	**1 J_B**	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.07 J**	0.20 U
Seep 1	5/4/07	-----	**6.3**	**32**	-----	-	-	-	-	-	-	-
Seep 1	7/5/12	-----	20 U	-	**900**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
Seep 2	5/7/07	-----	**23.2**	**27**	-----	-	-	-	-	-	-	-
Seep 2	7/5/12	-----	**210**	-	**930**	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Sodium	Zinc		Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane
		7440-23-5	7440-66-6			Gasoline-range	Diesel-range	Lube-range	74-87-3	74-83-9	75-01-4	75-00-3
		total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		71	108	105	84	107	105	105	119	119	119	119
Number of Detects		71	75	89	84	31	14	8	13	0	27	28
Percent Detected		100.0%	69.4%	84.8%	100.0%	29.0%	13.3%	7.6%	10.9%	0.0%	22.7%	23.5%
Highest Conc.		4080000	210	320	4600	2.8	2.2	1.2	0.21	<1.0	19	15

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
(a) - The initial dissolved zinc concentration (244 ug/l) was determined to have been effected by laboratory contamination (DMD validation report 6/30/18). The result listed is for a reanalysis of the extracted sample.
(b) - Likely is biased high by laboratory contamination
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans*-1,2-Dichloroethene	*cis*-1,2-Dichloroethene	Chloroform	1,2-Dichloro-ethane
		75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3	107-06-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	100	7200	400	130	11	1000	16	1.2	4.2
P11	11/17/14	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.65**	1.0 U	1.0 U
P12	11/17/14	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P13	11/13/14	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P14	11/14/14	**1.20 Jb**	**15**	0.20 U	0.20 U	**1.5**	**1.1**	**23**	0.20 U	**0.14**
P15	11/14/14	5.0 U	25 U	1.0 U	1.0 U	**69**	**6.0**	**11**	1.0 U	1.0 U
P16	12/10/14	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.26**	0.20 U	0.20 U
P18A	12/16/14	1.0 U	**4.1 J**	**0.16**	0.20 U	0.20 U	**0.1**	**0.1**	0.20 U	0.20 U
P18B	12/16/14	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P20	11/12/14	**0.85 Jb**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.41**	0.20 U	0.20 U
P21A	12/8/14	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.42**	0.20 U	0.20 U
P21B	12/8/14	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P23	11/12/14	**0.94 Jb**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12**	0.20 U	0.20 U
P26	11/13/14	**0.78 Jb**	5.0 U	**0.1**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27A	11/11/14	**0.53 Jb**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27B	11/11/14	**0.66 Jb**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P28	12/15/14	1.0 U	**4.0 J**	**0.18**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P29	12/10/14	1.0 U	5.0 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U	0.20 U	0.20 U
P30	12/9/14	1.0 U	5.0 U	0.20 U	0.20 U	**0.90**	**0.25**	0.20 U	0.20 U	0.20 U
P31	12/9/14	1.0 U	5.0 U	0.20 U	0.20 U	**0.30**	0.20 U	0.20 U	0.20 U	0.20 U
P32A	12/15/14	1.0 U	**6.2**	**0.30**	0.20 U	**0.31**	**0.15 J**	**0.52**	0.20 U	0.20 U
P32B	12/15/14	1.0 U	**2.9 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.38**	0.20 U	0.20 U
P33A	12/8/14	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells										
DOF-MW-1	11/8/12	1.0 U	5.0 U	0.20 U	0.20 U	**0.1**	0.20 U	0.20 U	**0.15**	0.20 U
DOF-MW-1	11/11/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.05 J**	**0.03 J**	0.20 U
DOF-MW-1	3/22/16	1.0 U	**2.2 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	9/26/16	**0.73 J_B**	**3.3 J_B**	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/8/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/11/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	3/22/16	1.0 U	**2.6 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	9/26/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans*-1,2-Dichloroethene	*cis*-1,2-Dichloroethene	Chloroform	1,2-Dichloro-ethane
		75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3	107-06-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-3	11/20/15	1.0 U	**3.7 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.07 J**	0.20 U	0.20 U
DOF-MW-3	3/24/16	2.0 U	**7.9 J**	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
DOF-MW-3	9/26/16	1.0 U	**8.5**	0.20 U	0.20 U	0.20 U	0.20 U	**0.10 J**	0.20 U	0.20 U
DOF-MW-4	11/8/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	11/11/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	3/29/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	9/26/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/8/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/20/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	3/29/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	9/26/16	**0.52 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	11/9/12	1.0 U	5.0 U	**1.6**	0.20 U	**0.14**	**0.34**	**0.22**	0.20 U	0.20 U
DOF-MW-6	11/19/15	1.0 U	5.0 U	0.20 U	0.20 U	**0.64**	0.20 U	**0.18 J**	0.20 U	0.20 U
DOF-MW-6	3/24/16	1.0 U	**2.8 J**	0.20 U	0.20 U	**0.24**	**0.13 J**	**0.11 J**	0.20 U	0.20 U
DOF-MW-6	9/27/16	1.0 U	5.0 U	0.20 U	0.20 U	**0.28**	**0.27**	**0.12 J**	0.20 U	0.20 U
DOF-MW-7	11/9/12	**0.59**	5.0 U	**0.61**	0.20 U	**1.2**	**0.36**	**25**	**0.16**	0.20 U
DOF-MW-7	11/23/15	1.0 U	5.0 U	0.20 U	0.20 U	**0.39**	**0.55**	**0.22 J_M**	0.20 U	0.20 U
DOF-MW-7	3/25/16	1.0 U	5.0 U	**0.04 J**	0.20 U	**0.39**	**0.65**	**0.23**	0.20 U	0.20 U
DOF-MW-7	9/27/16	**0.72 J_B**	5.0 U	**0.06 J_B**	0.20 U	**0.64**	**0.45**	**0.31**	0.20 U	0.20 U
DOF-MW-8	11/9/12	1.0 U	5.0 U	**0.74**	0.20 U	**0.45**	**0.40**	**0.42**	0.20 U	0.20 U
DOF-MW-8	11/20/15	1.0 U	**3.2 J**	0.20 U	0.20 U	**0.14 J**	**0.43**	**0.45**	0.20 U	**0.11 J**
DOF-MW-8	3/22/16	1.0 U	**4.3 J**	0.20 U	0.20 U	**0.14 J**	**0.41**	**0.38**	0.20 U	**0.09 J**
DOF-MW-8	9/30/16	**0.72 J_B**	**2.8 J_B**	**0.07 J_B**	0.20 U	**0.12 J**	**0.39**	**0.43**	0.20 U	0.20 U
HC-B1	11/13/12	1.0 U	**3.7 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.16**	0.20 U	0.20 U
HC-B1	11/19/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U
HC-B1	3/24/16	1.0 U	5.0 U	0.20 U	0.20 U	**0.09 J**	0.20 U	**0.12 J**	0.20 U	0.20 U
HC-B1	9/30/16	1.0 U	5.0 U	**0.05 J_B**	0.20 U	**0.08 J**	0.20 U	**0.15 J**	0.20 U	0.20 U
HC-B2(R)	11/11/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2(R)	3/23/16	1.0 U	**2.1 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2R	9/30/16	**3.6 J_B**	**2.4 J_B**	**0.10 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans*-1,2-Dichloroethene	*cis*-1,2-Dichloroethene	Chloroform	1,2-Dichloro-ethane
		75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3	107-06-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	1.0 U	**12**	**0.13 J**	0.20 U	**5.9**	**4.4**	**1.5**	0.20 U	0.20 U
SA-MW1	3/24/16	1.0 U	**18**	**0.09 J**	**0.24**	**8.6**	**27**	**9.6**	0.20 U	0.20 U
SA-MW1	9/30/16	**0.59 J_B**	**5.5 J_B**	**0.17 J**	**0.07 J**	**11**	**4.4**	**2.8**	0.20 U	0.20 U
SA-MW2	11/9/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW2	11/20/15	1.0 U	5.0 U	**0.10 J**	0.20 U	**0.07 J**	0.20 U	**0.11 J**	0.20 U	0.20 U
SA-MW2	3/29/16	1.0 U	**110**	**0.18 J**	0.20 U	**0.07 J**	0.20 U	**0.49**	0.20 U	0.20 U
SA-MW2	9/30/16	1.0 U	5.0 U	**0.14 J_B**	0.20 U	**0.10 J**	0.20 U	**0.17 J**	0.20 U	0.20 U
SA-MW3	11/13/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	11/19/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	3/28/16	1.0 U	**2.4 J**	0.20 U	0.20 U	**0.25**	0.20 U	**0.09 J**	0.20 U	0.20 U
SA-MW3	9/27/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ap	11/18/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.16 J**	0.20 U	0.20 U
MW-Ap	3/25/16	1.0 U	**2.5 J**	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U	**0.03 J**	0.20 U
MW-Ap	10/1/16	1.0 U	5.0 U	0.20 U	0.20 U	**0.25**	0.20 U	**0.08 J**	0.20 U	0.20 U
MW-Bp	11/18/15	1.0 U	**8.8**	0.20 U	0.20 U	**0.12 J**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Bp	3/25/16	1.0 U	**3.2 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.04 J**	0.20 U
MW-Bp	10/1/16	1.0 U	**2.4 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.07 J_B**	0.20 U
MW-Cp	11/18/15	1.0 U	5.0 U	0.20 U	0.20 U	**0.31**	0.20 U	**0.14 J**	0.20 U	**0.24**
MW-Cp	3/25/16	1.0 U	**4.9 J**	**0.11 J**	0.20 U	**0.42**	0.20 U	**0.10 J**	0.20 U	**0.44**
MW-Cp	10/1/16	1.0 U	**2.3 J_B**	**0.04 J_B**	0.20 U	**0.30**	0.20 U	**0.08 J**	0.20 U	0.20 U
MW-Dp	11/18/15	1.0 U	**2.8 J**	0.20 U	0.20 U	**0.30**	**0.25**	**0.39**	0.20 U	0.20 U
MW-Dp	3/28/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Dp	10/1/16	1.0 U	**5.3 J_B**	**0.07 J_B**	0.20 U	**0.15 J**	**0.32**	**1.4**	0.20 U	0.20 U
MW-Du	11/18/15	1.0 U	**2.4 J**	0.20 U	0.20 U	0.20 U	**0.16 J**	0.20 U	0.20 U	0.20 U
MW-Du	3/28/16	1.0 U	5.0 U	0.20 U	0.20 U	**0.18 J**	**0.05 J**	**0.21**	0.20 U	0.20 U
MW-Du	10/1/16	1.0 U	5.0 U	**0.04 J_B**	0.20 U	0.20 U	**0.08 J**	0.20 U	0.20 U	0.20 U
MW-Eu	11/19/15	1.0 U	**3.0 J**	0.20 U	0.20 U	**0.21**	0.20 U	**0.19 J**	0.20 U	0.20 U
MW-Eu	3/24/16	1.0 U	**4.8 J**	**0.10 J**	0.20 U	**0.12 J**	0.20 U	**0.21**	0.20 U	0.20 U
MW-Eu	9/30/16	1.0 U	5.0 U	**0.08 J_B**	0.20 U	**0.11 J**	0.20 U	**0.20 J**	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans*-1,2-Dichloroethene	*cis*-1,2-Dichloroethene	Chloroform	1,2-Dichloro-ethane
		75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3	107-06-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	3/23/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	9/28/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	11/10/15	1.0 U	5.0 U	0.20 U	0.20 U	**0.08 J**	0.20 U	**0.23**	0.20 U	0.20 U
MW-FL	3/23/16	1.0 U	**2.2 J**	0.20 U	0.20 U	**0.08 J**	0.20 U	**0.25**	0.20 U	0.20 U
MW-FL	9/28/16	**0.49 J_B**	5.0 U	0.20 U	0.20 U	**0.08 J**	0.20 U	**0.26**	0.20 U	0.20 U
MW-Gu	11/10/15	1.0 U	5.0 U	**0.27**	0.20 U	0.20 U	0.20 U	**0.38**	0.20 U	0.20 U
MW-Gu	3/23/16	1.0 U	**2.6 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.25**	0.20 U	0.20 U
MW-Gu	9/28/16	1.0 U	5.0 U	**0.08 J_B**	0.20 U	0.20 U	0.20 U	**0.42**	0.20 U	0.20 U
MW-GL	11/10/15	1.0 U	5.0 U	0.20 U	0.20 U	**0.10 J**	0.20 U	**0.64**	0.20 U	0.20 U
MW-GL	3/23/16	1.0 U	**2.2 J**	0.20 U	0.20 U	**0.11 J**	0.20 U	**0.85**	0.20 U	0.20 U
MW-GL	9/28/16	**0.53 J_B**	5.0 U	0.20 U	0.20 U	**0.10 J**	0.20 U	**0.85**	0.20 U	0.20 U
MW-HL	11/18/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	3/29/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U
MW-HL	9/27/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.09 J**	0.20 U	0.20 U
MW-IL	11/20/15	1.0 U	5.0 U	**0.05 J**	0.20 U	**0.12 J**	0.20 U	**0.26**	0.20 U	0.20 U
MW-IL	3/28/16	1.0 U	**2.6 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	9/27/16	**0.56 J_B**	5.0 U	0.20 U	0.20 U	**0.20**	0.20 U	**0.26**	0.20 U	0.20 U
MW-Ju	11/20/15	1.0 U	5.0 U	0.20 U	0.20 U	**0.07 J**	0.20 U	**0.32**	0.20 U	0.20 U
MW-Ju	3/28/16	1.0 U	**3.3 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.70**	**0.07 J**	0.20 U
MW-Ju	9/27/16	1.0 U	5.0 U	0.20 U	0.20 U	**0.13 J**	0.20 U	**0.23**	0.20 U	0.20 U
MW-Ku	11/10/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	3/22/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.07 J**	0.20 U	0.20 U
MW-Ku	9/28/16	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U
MW-KL	11/10/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	**0.14 J**	**1.7**	0.20 U	0.20 U
MW-KL	3/22/16	1.0 U	5.0 U	0.20 U	0.20 U	**0.08 J**	**0.12 J**	**4.0**	0.20 U	0.20 U
MW-KL	9/28/16	1.0 U	5.0 U	**0.05 J_B**	0.20 U	**0.07 J**	**0.08 J**	**3.4**	0.20 U	0.20 U
Seep 1	5/4/07	-	-	-	-	-	-	-	-	-
Seep 1	7/5/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Seep 2	5/7/07	-	-	-	-	-	-	-	-	-
Seep 2	7/5/12	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans*-1,2-Dichloroethene	*cis*-1,2-Dichloroethene	Chloroform	1,2-Dichloro-ethane
		75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3	107-06-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		119	119	119	119	119	119	119	119	119
Number of Detects		16	39	28	2	53	27	68	7	5
Percent Detected		13.4%	32.8%	23.5%	1.7%	44.5%	22.7%	57.1%	5.9%	4.2%
Highest Conc.		1.2	110	2	0.24	69	27	25	0.16	0.44

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
MS - Mineral spriits
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Butanone	1,1,1-Tri-chloroethane	Carbon tetrachloride	Bromo-dichloromethane	1,2-Dichloro-propane	*cis*-1,3-Dichloro-propene	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Trichloro-ethane
		78-93-3	71-55-6	56-23-5	75-27-4	78-87-5	10061-01-5	79-01-6	124-48-1	79-00-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	1700000	5500	0.35	-----	1	2	0.7	1.8	0.9
P11	11/17/14	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P12	11/17/14	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P13	11/13/14	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P14	11/14/14	**3.9**	0.20 U	0.20 U	0.20 U	**0.19**	0.20 U	**0.60**	0.20 U	0.20 U
P15	11/14/14	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.8**	1.0 U	1.0 U
P16	12/10/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P18A	12/16/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P18B	12/16/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P20	11/12/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U
P21A	12/8/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P21B	12/8/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P23	11/12/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P26	11/13/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27A	11/11/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27B	11/11/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P28	12/15/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P29	12/10/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P30	12/9/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P31	12/9/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P32A	12/15/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P32B	12/15/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P33A	12/8/14	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells										
DOF-MW-1	11/8/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	11/11/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	3/22/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	9/26/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/8/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/11/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	3/22/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	9/26/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Butanone	1,1,1-Tri-chloroethane	Carbon tetrachloride	Bromo-dichloromethane	1,2-Dichloro-propane	*cis*-1,3-Dichloro-propene	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Trichloro-ethane
		78-93-3	71-55-6	56-23-5	75-27-4	78-87-5	10061-01-5	79-01-6	124-48-1	79-00-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-3	11/20/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-3	3/24/16	10 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
DOF-MW-3	9/26/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	11/8/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	11/11/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	3/29/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	9/26/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/8/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/20/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	3/29/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	9/26/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	11/9/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	11/19/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	3/24/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	9/27/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-7	11/9/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.79**	0.20 U	0.20 U
DOF-MW-7	11/23/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-7	3/25/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-7	9/27/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.07 J**	0.20 U	0.20 U
DOF-MW-8	11/9/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-8	11/20/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-8	3/22/16	5.0 U	0.20 U	0.20 U	0.20 U	**0.09 J**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-8	9/30/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	11/13/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	11/19/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	3/24/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	9/30/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2(R)	11/11/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2(R)	3/23/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2R	9/30/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Butanone	1,1,1-Tri-chloroethane	Carbon tetrachloride	Bromo-dichloromethane	1,2-Dichloro-propane	*cis*-1,3-Dichloro-propene	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Trichloro-ethane
		78-93-3	71-55-6	56-23-5	75-27-4	78-87-5	10061-01-5	79-01-6	124-48-1	79-00-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	5.0 U	0.20 U	0.20 U	0.20 U	**0.51**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW1	3/24/16	**2.0 J**	0.20 U	0.20 U	0.20 U	**0.66**	0.20 U	**0.93**	0.20 U	0.20 U
SA-MW1	9/30/16	0.20 U	0.20 U	0.20 U	0.20 U	**0.77**	0.20 U	**0.26**	0.20 U	0.20 U
SA-MW2	11/9/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW2	11/20/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.08 J**	0.20 U	0.20 U
SA-MW2	3/29/16	**4.9 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW2	9/30/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U
SA-MW3	11/13/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	11/19/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	3/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.14 J**	0.20 U	0.20 U
SA-MW3	9/27/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ap	11/18/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ap	3/25/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.25**	0.20 U	0.20 U
MW-Ap	10/1/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Bp	11/18/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Bp	3/25/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.09 J**	0.20 U	0.20 U
MW-Bp	10/1/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Cp	11/18/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Cp	3/25/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Cp	10/1/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Dp	11/18/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Dp	3/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Dp	10/1/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**2.3**	0.20 U	0.20 U
MW-Du	11/18/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Du	3/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Du	10/1/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Eu	11/19/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Eu	3/24/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Eu	9/30/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Butanone	1,1,1-Tri-chloroethane	Carbon tetrachloride	Bromo-dichloromethane	1,2-Dichloro-propane	*cis*-1,3-Dichloro-propene	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Trichloro-ethane
		78-93-3	71-55-6	56-23-5	75-27-4	78-87-5	10061-01-5	79-01-6	124-48-1	79-00-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	3/23/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	9/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	11/10/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	3/23/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	9/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	11/10/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	3/23/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	9/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-GL	11/10/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-GL	3/23/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-GL	9/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	11/18/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	3/29/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	9/27/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	11/20/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	3/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	9/27/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ju	11/20/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U
MW-Ju	3/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.35**	0.20 U	0.20 U
MW-Ju	9/27/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	11/10/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	3/22/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	9/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	11/10/15	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	3/22/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	9/28/16	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Seep 1	5/4/07	-	-	-	-	-	-	-	-	-
Seep 1	7/5/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Seep 2	5/7/07	-	-	-	-	-	-	-	-	-
Seep 2	7/5/12	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Butanone	1,1,1-Tri-chloroethane	Carbon tetrachloride	Bromo-dichloromethane	1,2-Dichloro-propane	*cis*-1,3-Dichloro-propene	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Trichloro-ethane
		78-93-3	71-55-6	56-23-5	75-27-4	78-87-5	10061-01-5	79-01-6	124-48-1	79-00-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		119	119	119	119	119	119	119	119	119
Number of Detects		3	0	0	0	5	0	15	0	0
Percent Detected		2.5%	0.0%	0.0%	0.0%	4.2%	0.0%	12.6%	0.0%	0.0%
Highest Conc.		3.9	<0.2	<0.2	<0.2	0.77	<0.2	2.3	<0.2	<0.2

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Benzene	*trans*-1,3-Dichloropropene	Bromo-form	4-Methyl-2-pentanone	2-Hexanone	Tetrachloro-ethene	1,1,2,2-Tetra-chloroethane	Toluene	Chloro-benzene	Ethyl-benzene	Styrene
		71-43-2	10061-02-6	75-25-2	108-10-1	591-78-6	127-18-4	79-34-5	108-88-3	108-90-7	100-41-4	100-42-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	1.6	2	12	-----	40	2.9	0.3	130	200	31	8200
P11	11/17/14	**2.0**	1.0 U	1.0 U	25 U	25 U	1.0 U	1.0 U	**1.8**	1.0 U	**15**	1.0 U
P12	11/17/14	**48**	1.0 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U
P13	11/13/14	1.0 U	1.0 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P14	11/14/14	**3.1**	0.20 U	0.20 U	**6.2**	5.0 U	0.20 U	0.20 U	**7.8**	0.20 U	**0.72**	0.20 U
P15	11/14/14	**8.2**	1.0 U	1.0 U	25 U	25 U	1.0 U	1.0 U	**22**	1.0 U	**87**	1.0 U
P16	12/10/14	**0.54**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P18A	12/16/14	**8.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.52**	0.20 U	**0.23**	0.20 U
P18B	12/16/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.15**	0.20 U	0.20 U	0.20 U
P20	11/12/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P21A	12/8/14	**0.61**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P21B	12/8/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P23	11/12/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P26	11/13/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27A	11/11/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27B	11/11/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P28	12/15/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.15**	0.20 U	0.20 U	0.20 U
P29	12/10/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.49**	0.20 U	**1.3**	0.20 U
P30	12/9/14	**2.4**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**4.2**	**0.56**	**2.6**	0.20 U
P31	12/9/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P32A	12/15/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.74**	0.20 U	**0.54**	0.20 U
P32B	12/15/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.33**	0.20 U	**0.30**	0.20 U
P33A	12/8/14	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells												
DOF-MW-1	11/8/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	11/11/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	3/22/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	9/26/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/8/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/11/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	3/22/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	9/26/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Benzene	*trans*-1,3-Dichloropropene	Bromo-form	4-Methyl-2-pentanone	2-Hexanone	Tetrachloro-ethene	1,1,2,2-Tetra-chloroethane	Toluene	Chloro-benzene	Ethyl-benzene	Styrene
		71-43-2	10061-02-6	75-25-2	108-10-1	591-78-6	127-18-4	79-34-5	108-88-3	108-90-7	100-41-4	100-42-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-3	11/20/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.07 J**	0.20 U	**0.05 J**	0.20 U	0.20 U	0.20 U
DOF-MW-3	3/24/16	0.40 U	0.40 U	0.40 U	10 U	10 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
DOF-MW-3	9/26/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	11/8/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	11/11/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	3/29/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	9/26/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/8/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/20/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	3/29/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	9/26/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	11/9/12	**3.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.5**	**13**	**2.7**	0.20 U
DOF-MW-6	11/19/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	**0.75**	0.20 U	0.20 U
DOF-MW-6	3/24/16	**0.16 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.09 J**	**2.4**	0.20 U	0.20 U
DOF-MW-6	9/27/16	**0.59**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.32 J_B**	**7.0**	**0.17 J**	0.20 U
DOF-MW-7	11/9/12	**1.7**	0.20 U	0.20 U	5.0 U	5.0 U	**0.43**	0.20 U	**28**	**0.14**	**21**	**1.7**
DOF-MW-7	11/23/15	**2.4**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.2**	0.20 U	**0.53**	0.20 U
DOF-MW-7	3/25/16	**2.3**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.63**	0.20 U	**0.31**	0.20 U
DOF-MW-7	9/27/16	**1.9**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.35 J_B**	**0.07 J**	**0.14 J**	0.20 U
DOF-MW-8	11/9/12	**61**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**2.6**	**0.81**	**2.0**	0.20 U
DOF-MW-8	11/20/15	**70**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.89**	**1.1**	**0.20**	0.20 U
DOF-MW-8	3/22/16	**68**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.84**	**0.97**	**0.17 J**	0.20 U
DOF-MW-8	9/30/16	**60**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.87**	**0.84**	**0.15 J**	0.20 U
HC-B1	11/13/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	11/19/15	**0.05 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	3/24/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	9/30/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.07 J_B**	0.20 U	**0.10 J**	0.20 U
HC-B2(R)	11/11/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.08 J**	0.20 U	**0.06 J**	0.20 U	**0.04 J**	0.20 U
HC-B2(R)	3/23/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2R	9/30/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.14 J**	0.20 U	**0.38 J_B**	0.20 U	**0.09 J**	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Benzene	*trans*-1,3-Dichloropropene	Bromo-form	4-Methyl-2-pentanone	2-Hexanone	Tetrachloro-ethene	1,1,2,2-Tetra-chloroethane	Toluene	Chloro-benzene	Ethyl-benzene	Styrene
		71-43-2	10061-02-6	75-25-2	108-10-1	591-78-6	127-18-4	79-34-5	108-88-3	108-90-7	100-41-4	100-42-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	**6.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**54**	**2.3 J_M**	**240**	**2.6**
SA-MW1	3/24/16	**8.6**	0.20 U	0.20 U	**2.0 J**	5.0 U	0.20 U	0.20 U	**480**	**2.6**	**360**	**19**
SA-MW1	9/30/16	**12**	0.20 U	0.20 U	**1.3 J**	5.0 U	0.20 U	0.20 U	**290**	**2.2**	**420**	**8.7**
SA-MW2	11/9/12	**0.15 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.20**	0.20 U
SA-MW2	11/20/15	**0.64**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.83**	0.20 U	**4.8**	**0.12 J**
SA-MW2	3/29/16	**0.77**	0.20 U	0.20 U	**27**	**1.6 J**	0.20 U	0.20 U	**1.1**	0.20 U	**5.6**	**0.14 J**
SA-MW2	9/30/16	**0.44**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.35 J_B**	**0.05 J**	**0.93**	0.20 U
SA-MW3	11/13/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	11/19/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	3/28/16	**0.06 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	9/27/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.06 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ap	11/18/15	**0.61**	0.20 U	0.20 U	5.0 U	5.0 U	**0.24**	0.20 U	**0.60**	**0.76**	0.20 U	0.20 U
MW-Ap	3/25/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**1.4**	0.20 U	**0.07 J**	0.20 U	**0.05 J**	0.20 U
MW-Ap	10/1/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**1.2**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Bp	11/18/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.49**	0.20 U	**0.18 J**	0.20 U	0.20 U	0.20 U
MW-Bp	3/25/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**1.9**	0.20 U	**0.09 J**	0.20 U	0.20 U	0.20 U
MW-Bp	10/1/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**1.6**	0.20 U	**0.05 J_B**	0.20 U	0.20 U	0.20 U
MW-Cp	11/18/15	**0.98**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.75**	0.20 U	**0.40**	0.20 U
MW-Cp	3/25/16	**1.8**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**2.0**	0.20 U	**0.69**	**0.08 J**
MW-Cp	10/1/16	**1.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.2**	0.20 U	**0.16 J**	0.20 U
MW-Dp	11/18/15	**0.29**	0.20 U	0.20 U	5.0 U	5.0 U	**0.69**	0.20 U	**0.59**	**1.1**	0.20 U	0.20 U
MW-Dp	3/28/16	**6.2**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**42**	0.20 U	**9.3**	0.20 U
MW-Dp	10/1/16	**0.82**	0.20 U	0.20 U	5.0 U	5.0 U	**9.0**	0.20 U	**0.18 J_B**	**9.4**	0.20 U	0.20 U
MW-Du	11/18/15	**0.21**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.14 J**	**2.5**	0.20 U	0.20 U
MW-Du	3/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Du	10/1/16	**0.22**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.20 J_B**	**4.5**	0.20 U	0.20 U
MW-Eu	11/19/15	**2.4**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.32**	0.20 U	**0.43**	0.20 U
MW-Eu	3/24/16	**0.66**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.47**	0.20 U	**0.59**	0.20 U
MW-Eu	9/30/16	**0.57**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.25 J_B**	0.20 U	**0.71**	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Benzene	*trans*-1,3-Dichloropropene	Bromo-form	4-Methyl-2-pentanone	2-Hexanone	Tetrachloro-ethene	1,1,2,2-Tetra-chloroethane	Toluene	Chloro-benzene	Ethyl-benzene	Styrene
		71-43-2	10061-02-6	75-25-2	108-10-1	591-78-6	127-18-4	79-34-5	108-88-3	108-90-7	100-41-4	100-42-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	3/23/16	**0.03 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	9/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	11/10/15	**0.03 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	3/23/16	**0.06 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	9/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	11/10/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U
MW-Gu	3/23/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	9/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-GL	11/10/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	**0.27**	0.20 U	0.20 U
MW-GL	3/23/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	**0.26**	0.20 U	0.20 U
MW-GL	9/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U
MW-HL	11/18/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	3/29/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	9/27/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	11/20/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U
MW-IL	3/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	9/27/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ju	11/20/15	**0.13 J**	0.20 U	0.20 U	5.0 U	5.0 U	**0.12 J**	0.20 U	**0.05 J**	0.20 U	**0.16 J**	0.20 U
MW-Ju	3/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**6.1**	0.20 U	0.20 U	**0.35**	0.20 U	0.20 U
MW-Ju	9/27/16	**0.05 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J_B**	0.20 U	**0.05 J**	0.20 U
MW-Ku	11/10/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	3/22/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	9/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	11/10/15	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U
MW-KL	3/22/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	9/28/16	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Seep 1	5/4/07	-	-	-	-	-	-	-	-	-	-	-
Seep 1	7/5/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Seep 2	5/7/07	-	-	-	-	-	-	-	-	-	-	-
Seep 2	7/5/12	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Benzene	*trans*-1,3-Dichloropropene	Bromoform	4-Methyl-2-pentanone	2-Hexanone	Tetrachloroethene	1,1,2,2-Tetrachloroethane	Toluene	Chlorobenzene	Ethylbenzene	Styrene
		71-43-2	10061-02-6	75-25-2	108-10-1	591-78-6	127-18-4	79-34-5	108-88-3	108-90-7	100-41-4	100-42-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		119	119	119	119	119	119	119	119	119	119	119
Number of Detects		45	0	0	4	1	14	0	52	25	38	7
Percent Detected		37.8%	0.0%	0.0%	3.4%	0.8%	11.8%	0.0%	43.7%	21.0%	31.9%	5.9%
Highest Conc.		70	<0.2	<0.2	27	1.6	9.0	<0.2	480	13	420	19

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Trichloro-fluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	*m* - & *p* - Xylenes	*o* -Xylene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Acrolein	Bromoethane	1,1-Dichloro-propene
		75-69-4	76-13-1	179601-23-1	95-47-6	95-50-1	541-73-1	106-46-7	107-02-8	74-96-4	563-58-6
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	120	-----	1600	430	4.6	2	4.9	1.1	-----	-----
P11	11/17/14	1.0 U	1.0 U	**4.2**	**1.2**	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
P12	11/17/14	1.0 U	1.0 U	**1.4 J**	1.0 U	**0.5**	1.0 U	1.0 U	25 U	1.0 U	1.0 U
P13	11/13/14	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
P14	11/14/14	0.20 U	0.20 U	**2.0**	**1.0**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P15	11/14/14	1.0 U	1.0 U	**150**	**39**	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
P16	12/10/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P18A	12/16/14	0.20 U	0.20 U	**1.6**	**0.60**	**0.15**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P18B	12/16/14	0.20 U	0.20 U	**0.40**	**0.17 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P20	11/12/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P21A	12/8/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P21B	12/8/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P23	11/12/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	**1.4**	5.0 U	0.20 U	0.20 U
P26	11/13/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P27A	11/11/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P27B	11/11/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P28	12/15/14	0.20 U	0.20 U	**0.24**	**0.1**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P29	12/10/14	0.20 U	0.20 U	**0.73**	**0.26**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P30	12/9/14	0.20 U	0.20 U	**6.4**	**2.6**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P31	12/9/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P32A	12/15/14	0.20 U	0.20 U	**1.7**	**0.64**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P32B	12/15/14	0.20 U	0.20 U	**0.91**	**0.34**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P33A	12/8/14	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells											
DOF-MW-1	11/8/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-1	11/11/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-1	3/22/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-1	9/26/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-2	11/8/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-2	11/11/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-2	3/22/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-2	9/26/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Trichloro-fluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	*m* - & *p* - Xylenes	*o* -Xylene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Acrolein	Bromoethane	1,1-Dichloro-propene
		75-69-4	76-13-1	179601-23-1	95-47-6	95-50-1	541-73-1	106-46-7	107-02-8	74-96-4	563-58-6
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-3	11/20/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-3	3/24/16	0.40 U	0.40 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	10 U	0.40 U	0.40 U
DOF-MW-3	9/26/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-4	11/8/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-4	11/11/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	**0.21**
DOF-MW-4	3/29/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-4	9/26/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-5	11/8/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-5	11/20/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-5	3/29/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-5	9/26/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-6	11/9/12	0.20 U	0.20 U	**1.8**	**1.5**	**0.67**	**3.6**	**22**	5.0 U	0.20 U	0.20 U
DOF-MW-6	11/19/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	**0.12 J**	**0.37**	5.0 U	0.20 U	0.20 U
DOF-MW-6	3/24/16	0.20 U	0.20 U	0.40 U	**0.04 J**	**0.05 J**	**0.22**	**0.43**	5.0 U	0.20 U	0.20 U
DOF-MW-6	9/27/16	0.20 U	0.20 U	**0.21 J_B**	**0.29**	**0.11 J**	**0.34**	**0.57**	5.0 U	0.20 U	0.20 U
DOF-MW-7	11/9/12	0.20 U	0.20 U	**51**	**18**	**0.36**	0.20 U	**0.12**	5.0 U	0.20 U	0.20 U
DOF-MW-7	11/23/15	0.20 U	0.20 U	**4.6**	**0.90**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-7	3/25/16	0.20 U	0.20 U	**2.9**	**0.66**	**0.12 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-7	9/27/16	**0.06 J**	0.20 U	**0.54**	**0.11 J**	**0.11 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-8	11/9/12	0.20 U	0.20 U	**7.6**	**1.3**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-8	11/20/15	0.20 U	0.20 U	**2.8**	**0.70**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-8	3/22/16	0.20 U	0.20 U	**2.1**	**0.61**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DOF-MW-8	9/30/16	0.20 U	0.20 U	**1.8**	**0.58**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
HC-B1	11/13/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
HC-B1	11/19/15	0.20 U	0.20 U	0.40 U	0.20 U	**0.05 J**	0.20 U	**0.04 J**	5.0 U	0.20 U	0.20 U
HC-B1	3/24/16	0.20 U	0.20 U	0.40 U	0.20 U	**0.05 J**	0.20 U	**0.04 J**	5.0 U	0.20 U	0.20 U
HC-B1	9/30/16	0.20 U	0.20 U	**0.09 J_B**	**0.04 J_B**	**0.06 J**	0.20 U	**0.05 J**	5.0 U	0.20 U	0.20 U
HC-B2(R)	11/11/15	0.20 U	0.20 U	**0.12 J**	**0.05 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
HC-B2(R)	3/23/16	**0.05 J**	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
HC-B2R	9/30/16	0.20 U	0.20 U	**0.08 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Trichloro-fluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	*m* - & *p* - Xylenes	*o* -Xylene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Acrolein	Bromoethane	1,1-Dichloro-propene
		75-69-4	76-13-1	179601-23-1	95-47-6	95-50-1	541-73-1	106-46-7	107-02-8	74-96-4	563-58-6
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	0.20 U	0.20 U	**110**	**44**	**7.2**	**4.7**	**13**	5.0 U	0.20 U	0.20 U
SA-MW1	3/24/16	0.20 U	0.20 U	**140**	**64**	**8.4**	**5.2**	**14**	5.0 U	0.20 U	0.20 U
SA-MW1	9/30/16	0.20 U	0.20 U	**160**	**82**	**8.0**	**4.6**	**12**	5.0 U	0.20 U	0.20 U
SA-MW2	11/9/12	0.20 U	0.20 U	**0.25**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
SA-MW2	11/20/15	0.20 U	0.20 U	**3.4**	**4.3**	**0.45**	0.20 U	**0.05 J**	5.0 U	0.20 U	0.20 U
SA-MW2	3/29/16	0.20 U	0.20 U	**4.3**	**5.2**	**0.61**	0.20 U	**0.07 J**	5.0 U	0.20 U	0.20 U
SA-MW2	9/30/16	0.20 U	0.20 U	**0.70**	**0.21**	**0.24**	**0.05 J**	**0.14 J**	5.0 U	0.20 U	0.20 U
SA-MW3	11/13/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
SA-MW3	11/19/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
SA-MW3	3/28/16	0.20 U	0.20 U	**0.06 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
SA-MW3	9/27/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Ap	11/18/15	0.20 U	0.20 U	**0.81**	**0.67**	**0.11 J**	**0.22**	**0.69**	5.0 U	0.20 U	0.20 U
MW-Ap	3/25/16	**0.11 J**	**0.30**	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Ap	10/1/16	**0.07 J**	**0.13 J**	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Bp	11/18/15	0.20 U	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Bp	3/25/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Bp	10/1/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Cp	11/18/15	0.20 U	0.20 U	**0.64**	**0.41**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Cp	3/25/16	0.20 U	0.20 U	**1.5**	**0.77**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Cp	10/1/16	0.20 U	0.20 U	**1.0**	**0.30**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Dp	11/18/15	0.20 U	0.20 U	**0.12 J**	0.20 U	**0.13 J**	**0.25**	**0.83**	5.0 U	0.20 U	0.20 U
MW-Dp	3/28/16	0.20 U	0.20 U	**31**	**13**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Dp	10/1/16	0.20 U	0.20 U	**0.16 J_B**	**0.04 J_B**	**0.26**	**0.94**	**3.6**	5.0 U	0.20 U	0.20 U
MW-Du	11/18/15	0.20 U	0.20 U	**0.20 J**	**0.14 J**	**0.17 J**	**0.65**	**2.6**	5.0 U	0.20 U	0.20 U
MW-Du	3/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Du	10/1/16	0.20 U	0.20 U	**0.13 J_B**	**0.08 J_B**	**0.16 J**	**0.65**	**2.5**	5.0 U	0.20 U	0.20 U
MW-Eu	11/19/15	0.20 U	0.20 U	**0.41**	**0.24**	**0.26**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Eu	3/24/16	0.20 U	0.20 U	**0.35 J**	**0.18 J**	**0.20**	0.20 U	**0.07 J**	5.0 U	0.20 U	0.20 U
MW-Eu	9/30/16	0.20 U	0.20 U	**0.27 J**	**0.25**	**0.21**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Trichloro-fluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	*m* - & *p* - Xylenes	*o* -Xylene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Acrolein	Bromoethane	1,1-Dichloro-propene
		75-69-4	76-13-1	179601-23-1	95-47-6	95-50-1	541-73-1	106-46-7	107-02-8	74-96-4	563-58-6
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Fu	3/23/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Fu	9/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-FL	11/10/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-FL	3/23/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-FL	9/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Gu	11/10/15	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Gu	3/23/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Gu	9/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-GL	11/10/15	0.20 U	0.20 U	**0.07 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-GL	3/23/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-GL	9/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-HL	11/18/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-HL	3/29/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-HL	9/27/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-IL	11/20/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-IL	3/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-IL	9/27/16	**0.04 J**	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Ju	11/20/15	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Ju	3/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	**0.06 J**	**0.27**	5.0 U	0.20 U	0.20 U
MW-Ju	9/27/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Ku	11/10/15	0.20 U	0.20 U	**0.07 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Ku	3/22/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-Ku	9/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-KL	11/10/15	0.20 U	0.20 U	**0.09 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-KL	3/22/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
MW-KL	9/28/16	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
Seep 1	5/4/07	-	-	-	-	0.23 U	-	**1.3**	-	-	-
Seep 1	7/5/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
Seep 2	5/7/07	-	-	-	-	0.02 U	-	0.02 U	-	-	-
Seep 2	7/5/12	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Trichloro-fluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	*m* - & *p* - Xylenes	*o* -Xylene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Acrolein	Bromoethane	1,1-Dichloro-propene
		75-69-4	76-13-1	179601-23-1	95-47-6	95-50-1	541-73-1	106-46-7	107-02-8	74-96-4	563-58-6
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		119	119	119	119	121	119	121	119	119	119
Number of Detects		5	2	49	40	25	14	23	0	0	1
Percent Detected		4.2%	1.7%	41.2%	33.6%	20.7%	11.8%	19.0%	0.0%	0.0%	0.8%
Highest Conc.		<0.2	0.30	160	82	8.4	5.2	22	<5.0	<0.2	0.21

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Dibromo-methane	1,1,1,2-Tetra-chloroethane	1,2,3-Trichloro-propane	*trans*-1,4-Dichloro-2-butene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	Bromochloro methane	2,2-Dichloro-propane	1,3-Dichloro-propane
		74-95-3	630-20-6	96-18-4	110-57-6	108-67-8	95-63-6	106-93-4	74-97-5	294-20-7	142-28-9
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	80	7.4	0.5	-----	80	240	-----	-----	-----	-----
P11	11/17/14	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U
P12	11/17/14	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P13	11/13/14	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
P14	11/14/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P15	11/14/14	1.0 U	1.0 U	2.5 U	5.0 U	**12**	**36**	1.0 U	1.0 U	1.0 U	1.0 U
P16	12/10/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P18A	12/16/14	0.20 U	0.20 U	0.50 U	1.0 U	**0.13**	**0.58**	0.20 U	0.20 U	0.20 U	0.20 U
P18B	12/16/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.16**	0.20 U	0.20 U	0.20 U	0.20 U
P20	11/12/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P21A	12/8/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P21B	12/8/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P23	11/12/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P26	11/13/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27A	11/11/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P27B	11/11/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P28	12/15/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P29	12/10/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.59**	0.20 U	0.20 U	0.20 U	0.20 U
P30	12/9/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.95**	0.20 U	0.20 U	0.20 U	0.20 U
P31	12/9/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P32A	12/15/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.23**	0.20 U	0.20 U	0.20 U	0.20 U
P32B	12/15/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.13**	0.20 U	0.20 U	0.20 U	0.20 U
P33A	12/8/14	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells											
DOF-MW-1	11/8/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	11/11/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	3/22/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-1	9/26/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/8/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	11/11/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	3/22/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-2	9/26/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dibromo-methane	1,1,1,2-Tetra-chloroethane	1,2,3-Trichloro-propane	*trans*-1,4-Dichloro-2-butene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	Bromochloro methane	2,2-Dichloro-propane	1,3-Dichloro-propane
		74-95-3	630-20-6	96-18-4	110-57-6	108-67-8	95-63-6	106-93-4	74-97-5	294-20-7	142-28-9
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-3	11/20/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-3	3/24/16	0.40 U	0.40 U	1.0 U	2.0 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
DOF-MW-3	9/26/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	11/8/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	11/11/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	3/29/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-4	9/26/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/8/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	11/20/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	3/29/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-5	9/26/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	11/9/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**1.5**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	11/19/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	3/24/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-6	9/27/16	0.20 U	0.20 U	0.50 U	1.0 U	**0.06 J**	**0.19 J**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-7	11/9/12	0.20 U	0.20 U	0.50 U	1.0 U	**1.8**	**5.2**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-7	11/23/15	0.20 U	0.20 U	0.50 U	1.0 U	**0.52**	**0.73**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-7	3/25/16	0.20 U	0.20 U	0.50 U	1.0 U	**0.48**	**0.64**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-7	9/27/16	0.20 U	0.20 U	0.50 U	1.0 U	**0.17 J**	**0.06 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-8	11/9/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.29**	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-8	11/20/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-8	3/22/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DOF-MW-8	9/30/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	11/13/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	11/19/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J**	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	3/24/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B1	9/30/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2(R)	11/11/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2(R)	3/23/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
HC-B2R	9/30/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dibromo-methane	1,1,1,2-Tetra-chloroethane	1,2,3-Trichloro-propane	*trans*-1,4-Dichloro-2-butene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	Bromochloro methane	2,2-Dichloro-propane	1,3-Dichloro-propane
		74-95-3	630-20-6	96-18-4	110-57-6	108-67-8	95-63-6	106-93-4	74-97-5	294-20-7	142-28-9
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	0.20 U	0.20 U	0.50 U	1.0 U	**7.5**	**48**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW1	3/24/16	0.20 U	0.20 U	0.50 U	1.0 U	**7.0**	**53**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW1	9/30/16	0.20 U	0.20 U	0.50 U	1.0 U	**7.9**	**39**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW2	11/9/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.16**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW2	11/20/15	0.20 U	0.20 U	0.50 U	1.0 U	**0.69**	**3.5**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW2	3/29/16	0.20 U	0.20 U	0.50 U	1.0 U	**1.2**	**5.5**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW2	9/30/16	0.20 U	0.20 U	0.50 U	1.0 U	**0.30**	**0.75**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	11/13/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	11/19/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	3/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
SA-MW3	9/27/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ap	11/18/15	0.20 U	0.20 U	0.50 U	1.0 U	**0.19 J_B**	**0.18 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ap	3/25/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ap	10/1/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Bp	11/18/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.14 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Bp	3/25/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.05 J**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Bp	10/1/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Cp	11/18/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.26 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Cp	3/25/16	0.20 U	0.20 U	0.50 U	1.0 U	**0.15 J**	**0.59**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Cp	10/1/16	0.20 U	0.20 U	0.50 U	1.0 U	**0.05 J**	**0.45**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Dp	11/18/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Dp	3/28/16	0.20 U	0.20 U	0.50 U	1.0 U	**4.8**	**16**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Dp	10/1/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Du	11/18/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Du	3/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Du	10/1/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Eu	11/19/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.14 J**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Eu	3/24/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.18 J**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Eu	9/30/16	0.20 U	0.20 U	0.50 U	1.0 U	**0.04 J**	**0.18 J**	0.20 U	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dibromo-methane	1,1,1,2-Tetra-chloroethane	1,2,3-Trichloro-propane	*trans*-1,4-Dichloro-2-butene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	Bromochloro methane	2,2-Dichloro-propane	1,3-Dichloro-propane
		74-95-3	630-20-6	96-18-4	110-57-6	108-67-8	95-63-6	106-93-4	74-97-5	294-20-7	142-28-9
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	3/23/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Fu	9/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	11/10/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	3/23/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-FL	9/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	11/10/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	3/23/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Gu	9/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-GL	11/10/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-GL	3/23/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-GL	9/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	11/18/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	3/29/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-HL	9/27/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	11/20/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	3/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-IL	9/27/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ju	11/20/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ju	3/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ju	9/27/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	11/10/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	3/22/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-Ku	9/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	11/10/15	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	3/22/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MW-KL	9/28/16	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Seep 1	5/4/07	-	-	-	-	-	-	-	-	-	-
Seep 1	7/5/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	-----	0.20 U	0.20 U	0.20 U
Seep 2	5/7/07	-	-	-	-	-	-	-	-	-	-
Seep 2	7/5/12	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	-----	0.20 U	0.20 U	0.20 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dibromo-methane	1,1,1,2-Tetra-chloroethane	1,2,3-Trichloro-propane	*trans*-1,4-Dichloro-2-butene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	Bromochloro methane	2,2-Dichloro-propane	1,3-Dichloro-propane
		74-95-3	630-20-6	96-18-4	110-57-6	108-67-8	95-63-6	106-93-4	74-97-5	294-20-7	142-28-9
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		119	119	119	119	119	119	118	119	119	119
Number of Detects		0	0	0	0	18	38	0	0	0	0
Percent Detected		0.0%	0.0%	0.0%	0.0%	15.1%	31.9%	0.0%	0.0%	0.0%	0.0%
Highest Conc.		<0.2	<0.2	<0.5	<1.0	12	53	<0.2	<0.2	<0.2	<0.2

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isopropyl-benzene	n-Propyl-benzene	Bromo-benzene	2-Chloro-toluene	4-Chloro-toluene	*tert*-Butyl-benzene	*sec*-Butyl-benzene	4-Isopropyl-toluene	n-Butyl-benzene	1,2,4-Trichloro-benzene
		98-82-8	103-65-1	108-86-1	95-49-8	106-43-4	98-06-6	135-98-8	99-87-6	104-51-8	120-82-1
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	800	800	64	160	-----	800	800	-----	400	0.5
P11	11/17/14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U
P12	11/17/14	**1.4**	**0.55**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U
P13	11/13/14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U
P14	11/14/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P15	11/14/14	**2.4**	**2.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.2**	1.0 U	2.5 U
P16	12/10/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P18A	12/16/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P18B	12/16/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P20	11/12/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P21A	12/8/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P21B	12/8/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P23	11/12/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P26	11/13/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12**
P27A	11/11/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P27B	11/11/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P28	12/15/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P29	12/10/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P30	12/9/14	**0.60**	**0.36**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P31	12/9/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P32A	12/15/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P32B	12/15/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P33A	12/8/14	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells											
DOF-MW-1	11/8/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-1	11/11/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-1	3/22/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-1	9/26/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-2	11/8/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-2	11/11/15	**0.03 J**	**0.08 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.03 J**	0.20 U	**0.03 J**	0.50 U
DOF-MW-2	3/22/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-2	9/26/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isopropyl-benzene	n-Propyl-benzene	Bromo-benzene	2-Chloro-toluene	4-Chloro-toluene	*tert*-Butyl-benzene	*sec*-Butyl-benzene	4-Isopropyl-toluene	n-Butyl-benzene	1,2,4-Trichloro-benzene
		98-82-8	103-65-1	108-86-1	95-49-8	106-43-4	98-06-6	135-98-8	99-87-6	104-51-8	120-82-1
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-3	11/20/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-3	3/24/16	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	1.0 U
DOF-MW-3	9/26/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-4	11/8/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-4	11/11/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-4	3/29/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-4	9/26/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-5	11/8/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-5	11/20/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-5	3/29/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-5	9/26/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-6	11/9/12	**0.33**	**0.37**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.28**	**0.23 Jb**	**0.27**
DOF-MW-6	11/19/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-6	3/24/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-6	9/27/16	**0.05 J**	**0.04 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.03 J**	0.20 U	0.20 U	0.50 U
DOF-MW-7	11/9/12	**0.50**	**0.53**	0.20 U	0.20 U	0.20 U	0.20 U	**0.23**	**0.35**	**0.23 Jb**	**1.3**
DOF-MW-7	11/23/15	**0.48**	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	**0.13 J**	0.20 U	0.50 U
DOF-MW-7	3/25/16	**0.45**	**0.14 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	**0.16 J**	**0.05 J**	0.50 U
DOF-MW-7	9/27/16	**0.34**	**0.09 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.04 J**	**0.04 J**	**0.03 J**	0.50 U
DOF-MW-8	11/9/12	**0.45**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-8	11/20/15	**0.56**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.50 U
DOF-MW-8	3/22/16	**0.47**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DOF-MW-8	9/30/16	**0.40**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
HC-B1	11/13/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
HC-B1	11/19/15	0.20 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
HC-B1	3/24/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
HC-B1	9/30/16	0.20 U	0.20 U	0.20 U	**0.03 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
HC-B2(R)	11/11/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
HC-B2(R)	3/23/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
HC-B2R	9/30/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isopropyl-benzene	n-Propyl-benzene	Bromo-benzene	2-Chloro-toluene	4-Chloro-toluene	*tert*-Butyl-benzene	*sec*-Butyl-benzene	4-Isopropyl-toluene	n-Butyl-benzene	1,2,4-Trichloro-benzene
		98-82-8	103-65-1	108-86-1	95-49-8	106-43-4	98-06-6	135-98-8	99-87-6	104-51-8	120-82-1
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	**4.3**	**7.4**	0.20 U	**0.86 J_M**	0.20 U	**0.12 J**	**1.4**	**1.9**	**1.1 J_M**	0.50 U
SA-MW1	3/24/16	**4.9**	**8.6**	0.20 U	0.20 U	**0.03 J**	**0.12 J**	**1.7**	**2.0**	**1.3**	**0.33 J**
SA-MW1	9/30/16	**4.4**	**7.0**	0.20 U	0.20 U	0.20 U	0.20 U	**1.5**	**1.5**	**1.0**	**0.28 J**
SA-MW2	11/9/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
SA-MW2	11/20/15	**0.20**	**0.20**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.18 J**	0.20 U	0.50 U
SA-MW2	3/29/16	**0.28**	**0.45**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.39**	0.20 U	0.50 U
SA-MW2	9/30/16	**0.12 J**	**0.12 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.04 J**	**0.15 J**	0.20 U	0.50 U
SA-MW3	11/13/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
SA-MW3	11/19/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
SA-MW3	3/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
SA-MW3	9/27/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ap	11/18/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ap	3/25/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ap	10/1/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Bp	11/18/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Bp	3/25/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Bp	10/1/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Cp	11/18/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Cp	3/25/16	**0.24**	**0.14 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.11 J**	**0.06 J**	**0.03 J**	0.50 U
MW-Cp	10/1/16	**0.24**	**0.09 J**	0.20 U	0.20 U	0.20 U	**0.03 J**	**0.11 J**	**0.08 J**	0.20 U	0.50 U
MW-Dp	11/18/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Dp	3/28/16	**0.92**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.25**	**0.16 J**	**0.66**	0.50 U
MW-Dp	10/1/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Du	11/18/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Du	3/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Du	10/1/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Eu	11/19/15	**0.29**	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.11 J**	**0.20**	0.20 U	0.50 U
MW-Eu	3/24/16	**0.15 J**	**0.10 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.10 J**	**0.05 J**	**0.03 J**	0.50 U
MW-Eu	9/30/16	**0.10 J**	**0.05 J**	0.20 U	0.20 U	0.20 U	**0.03 J**	**0.05 J**	**0.07 J**	**0.03 J**	0.50 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isopropyl-benzene	n-Propyl-benzene	Bromo-benzene	2-Chloro-toluene	4-Chloro-toluene	*tert*-Butyl-benzene	*sec*-Butyl-benzene	4-Isopropyl-toluene	n-Butyl-benzene	1,2,4-Trichloro-benzene
		98-82-8	103-65-1	108-86-1	95-49-8	106-43-4	98-06-6	135-98-8	99-87-6	104-51-8	120-82-1
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Fu	3/23/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Fu	9/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-FL	11/10/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-FL	3/23/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-FL	9/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Gu	11/10/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Gu	3/23/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Gu	9/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-GL	11/10/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-GL	3/23/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-GL	9/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-HL	11/18/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-HL	3/29/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-HL	9/27/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-IL	11/20/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-IL	3/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-IL	9/27/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ju	11/20/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.05 J**	0.20 U	0.50 U
MW-Ju	3/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ju	9/27/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ku	11/10/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ku	3/22/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-Ku	9/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-KL	11/10/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-KL	3/22/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
MW-KL	9/28/16	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
Seep 1	5/4/07	-	-	-	-	-	-	-	-	-	0.23 U
Seep 1	7/5/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U
Seep 2	5/7/07	-	-	-	-	-	-	-	-	-	0.02 U
Seep 2	7/5/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isopropyl-benzene	n-Propyl-benzene	Bromo-benzene	2-Chloro-toluene	4-Chloro-toluene	*tert*-Butyl-benzene	*sec*-Butyl-benzene	4-Isopropyl-toluene	n-Butyl-benzene	1,2,4-Trichloro-benzene
		98-82-8	103-65-1	108-86-1	95-49-8	106-43-4	98-06-6	135-98-8	99-87-6	104-51-8	120-82-1
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		119	119	119	119	119	119	119	119	119	121
Number of Detects		26	21	0	3	1	6	16	19	12	5
Percent Detected		21.8%	17.6%	0.0%	2.5%	0.8%	5.0%	13.4%	16.0%	10.1%	4.1%
Highest Conc.		4.9	8.60	<0.2	0.86	0.03	0.12	1.7	5.2	1.3	1.3

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	1,2,3-Trichloro-benzene	Phenol	2-Chloro-phenol	Benzyl alcohol	2-Methyl-phenol	4-Methyl-phenol	N-Nitroso-di-n-propylamine	Hexachloro-ethane	Nitro-benzene
		87-61-6	108-95-2	95-57-8	100-51-6	95-48-7	106-44-5	621-64-7	67-72-1	98-95-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	-----	370	17	800	27	800	0.2	0.2	100
P11	11/17/14	2.5 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P12	11/17/14	2.5 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P13	11/13/14	2.5 U	**8.3**	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P14	11/14/14	0.50 U	**20**	1.0 U	2.0 U	**4.1**	**150**	1.0 U	2.0 U	1.0 U
P15	11/14/14	2.5 U	**2.5**	1.0 U	2.0 U	**36**	**32**	1.0 U	2.0 U	1.0 U
P16	12/10/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P18A	12/16/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P18B	12/16/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P20	11/12/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P21A	12/8/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P21B	12/8/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P23	11/12/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P26	11/13/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P27A	11/11/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P27B	11/11/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P28	12/15/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P29	12/10/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P30	12/9/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P31	12/9/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P32A	12/15/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	**0.8**	1.0 U	2.0 U	1.0 U
P32B	12/15/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P33A	12/8/14	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells										
DOF-MW-1	11/8/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-1	11/11/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-1	3/22/16	0.50 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
DOF-MW-1	9/26/16	0.50 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
DOF-MW-2	11/8/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-2	11/11/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-2	3/22/16	0.50 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
DOF-MW-2	9/26/16	0.50 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

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	1,2,3-Trichloro-benzene	Phenol	2-Chloro-phenol	Benzyl alcohol	2-Methyl-phenol	4-Methyl-phenol	N-Nitroso-di-n-propylamine	Hexachloro-ethane	Nitro-benzene
		87-61-6	108-95-2	95-57-8	100-51-6	95-48-7	106-44-5	621-64-7	67-72-1	98-95-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-3	11/20/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-3	3/24/16	1.0 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
DOF-MW-3	9/26/16	0.50 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
DOF-MW-4	11/8/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-4	11/11/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-4	3/29/16	0.50 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
DOF-MW-4	9/26/16	0.50 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
DOF-MW-5	11/8/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-5	11/20/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-5	3/29/16	0.50 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
DOF-MW-5	9/26/16	0.50 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
DOF-MW-6	11/9/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-6	11/19/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-6	3/24/16	0.50 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
DOF-MW-6	9/27/16	0.50 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
DOF-MW-7	11/9/12	**0.39**	**2.1**	1.0 U	2.0 U	1.0 U	**8.9**	1.0 U	2.0 U	1.0 U
DOF-MW-7	11/23/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-7	3/25/16	0.50 U	**0.1 J**	0.2 U	0.2 U	0.2 U	**0.1 J**	0.2 U	0.2 U	0.2 U
DOF-MW-7	9/27/16	0.50 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
DOF-MW-8	11/9/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-8	11/20/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DOF-MW-8	3/22/16	0.50 U	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DOF-MW-8	9/30/16	0.50 U	**0.5**	0.2 U	0.2 U	**0.07 J**	**0.2**	0.2 U	0.2 U	0.2 U
HC-B1	11/13/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
HC-B1	11/19/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
HC-B1	3/24/16	0.50 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
HC-B1	9/30/16	0.50 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
HC-B2(R)	11/11/15	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
HC-B2(R)	3/23/16	0.50 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
HC-B2R	9/30/16	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	1,2,3-Trichloro-benzene	Phenol	2-Chloro-phenol	Benzyl alcohol	2-Methyl-phenol	4-Methyl-phenol	N-Nitroso-di-n-propylamine	Hexachloro-ethane	Nitro-benzene
		87-61-6	108-95-2	95-57-8	100-51-6	95-48-7	106-44-5	621-64-7	67-72-1	98-95-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
SA-MW1	3/24/16	0.50 U	0.2 U	0.2 U	0.2 U	**0.6**	**0.6**	0.2 U	0.2 U	0.2 U
SA-MW1	9/30/16	0.50 U	**0.5**	0.2 U	0.2 U	**1.2**	**1.5**	0.2 U	0.2 U	0.2 U
SA-MW2	11/9/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
SA-MW2	11/20/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
SA-MW2	3/29/16	0.50 U	**16**	0.2 U	0.2 U	**1.1**	**4.0**	0.2 U	0.2 U	0.2 U
SA-MW2	9/30/16	0.50 U	0.2 U	0.2 U	0.2 U	**0.05 J**	**0.2 J**	0.2 U	0.2 U	0.2 U
SA-MW3	11/13/12	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
SA-MW3	11/19/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
SA-MW3	3/28/16	0.50 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
SA-MW3	9/27/16	0.50 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
MW-Ap	11/18/15	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	0.50 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
MW-Ap	10/1/16	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	0.50 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
MW-Bp	10/1/16	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	0.50 U	**0.1 J**	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U
MW-Cp	10/1/16	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	0.50 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
MW-Dp	10/1/16	0.50 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-Du	3/28/16	0.50 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
MW-Du	10/1/16	0.50 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
MW-Eu	11/19/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	**0.8 J**	1.0 U	2.0 U	1.0 U
MW-Eu	3/24/16	0.50 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
MW-Eu	9/30/16	0.50 U	0.2 U	0.2 U	0.2 U	**0.03 J**	0.2 U	0.2 U	0.2 U	0.2 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	1,2,3-Trichloro-benzene	Phenol	2-Chloro-phenol	Benzyl alcohol	2-Methyl-phenol	4-Methyl-phenol	N-Nitroso-di-n-propylamine	Hexachloro-ethane	Nitro-benzene
		87-61-6	108-95-2	95-57-8	100-51-6	95-48-7	106-44-5	621-64-7	67-72-1	98-95-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-Fu	3/23/16	0.50 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
MW-Fu	9/28/16	0.50 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
MW-FL	11/10/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-FL	3/23/16	0.50 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
MW-FL	9/28/16	0.50 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
MW-Gu	11/10/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-Gu	3/23/16	0.50 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
MW-Gu	9/28/16	0.50 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
MW-GL	11/10/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-GL	3/23/16	0.50 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
MW-GL	9/28/16	0.50 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
MW-HL	11/18/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-HL	3/29/16	0.50 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
MW-HL	9/27/16	0.50 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
MW-IL	11/20/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-IL	3/28/16	0.50 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
MW-IL	9/27/16	0.50 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
MW-Ju	11/20/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-Ju	3/28/16	0.50 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
MW-Ju	9/27/16	0.50 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
MW-Ku	11/10/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-Ku	3/22/16	0.50 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
MW-Ku	9/28/16	0.50 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
MW-KL	11/10/15	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
MW-KL	3/22/16	0.50 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
MW-KL	9/28/16	0.50 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
Seep 1	5/4/07	-	0.56 U	-	-	0.56 U	0.56 U	-	-	-
Seep 1	7/5/12	0.50 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	-----	1.0 U	1.0 U
Seep 2	5/7/07	-	0.49 U	-	-	0.49 U	0.49 U	-	-	-
Seep 2	7/5/12	0.50 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	-----	1.0 U	1.0 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	1,2,3-Trichloro-benzene	Phenol	2-Chloro-phenol	Benzyl alcohol	2-Methyl-phenol	4-Methyl-phenol	N-Nitroso-di-n-propylamine	Hexachloro-ethane	Nitro-benzene
		87-61-6	108-95-2	95-57-8	100-51-6	95-48-7	106-44-5	621-64-7	67-72-1	98-95-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		119	111	109	109	111	111	107	109	109
Number of Detects		1	4	0	0	8	12	0	0	0
Percent Detected		0.8%	3.6%	0.0%	0.0%	7.2%	10.8%	0.0%	0.0%	0.0%
Highest Conc.		0.39	20	<0.2	<0.2	36	150	<0.2	<0.2	<0.2

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isophorone	2,4-Dimethyl-phenol	Benzoic acid	2,4-Dichloro-phenol	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro-phenol
		78-59-1	105-67-9	65-85-0	120-83-2	91-20-3	59-50-7	91-57-6	88-06-2	95-95-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	110	6.3	590	10	1.4	36	32	0.28	600
P11	11/17/14	1.0 U	3.0 U	20 U	3.0 U	**0.57**	3.0 U	1.0 U	0.25 U	5.0 U
P12	11/17/14	1.0 U	3.0 U	**5.3 J**	3.0 U	**0.14**	3.0 U	**3.1**	0.25 U	5.0 U
P13	11/13/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P14	11/14/14	1.0 U	**4.2**	**18 J**	3.0 U	**0.14**	3.0 U	1.0 U	0.25 U	5.0 U
P15	11/14/14	1.0 U	**65**	**7.3 J**	3.0 U	**1.4**	3.0 U	**1.7**	0.25 U	5.0 U
P16	12/10/14	1.0 U	3.0 U	**7.0 J**	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P18A	12/16/14	1.0 U	3.0 U	**7.6 J**	3.0 U	**0.19**	3.0 U	**0.21**	0.25 U	5.0 U
P18B	12/16/14	1.0 U	3.0 U	20 U	3.0 U	**0.09**	3.0 U	**0.07**	0.25 U	5.0 U
P20	11/12/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P21A	12/8/14	1.0 U	3.0 U	**16 J**	3.0 U	**0.11**	3.0 U	1.0 U	0.25 U	5.0 U
P21B	12/8/14	1.0 U	3.0 U	20 U	3.0 U	**0.05**	3.0 U	1.0 U	0.25 U	5.0 U
P23	11/12/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P26	11/13/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P27A	11/11/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P27B	11/11/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P28	12/15/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P29	12/10/14	1.0 U	3.0 U	20 U	3.0 U	**0.15**	3.0 U	**2.2**	0.25 U	5.0 U
P30	12/9/14	1.0 U	3.0 U	20 U	3.0 U	**0.05**	3.0 U	1.0 U	0.25 U	5.0 U
P31	12/9/14	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
P32A	12/15/14	1.0 U	3.0 U	20 U	3.0 U	**0.09**	3.0 U	**2.0**	0.25 U	5.0 U
P32B	12/15/14	1.0 U	3.0 U	20 U	3.0 U	**0.06**	3.0 U	**1.3**	0.25 U	5.0 U
P33A	12/8/14	1.0 U	3.0 U	20 U	3.0 U	**0.05**	3.0 U	1.0 U	0.25 U	5.0 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells										
DOF-MW-1	11/8/12	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-1	11/11/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-1	3/22/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-1	9/26/16	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-2	11/8/12	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-2	11/11/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-2	3/22/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-2	9/26/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isophorone	2,4-Dimethyl-phenol	Benzoic acid	2,4-Dichloro-phenol	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro-phenol
		78-59-1	105-67-9	65-85-0	120-83-2	91-20-3	59-50-7	91-57-6	88-06-2	95-95-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-3	11/20/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-3	3/24/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-3	9/26/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-4	11/8/12	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-4	11/11/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-4	3/29/16	0.2 U	1.0 U	**0.3 J**	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-4	9/26/16	0.2 U	1.0 U	**0.5 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-5	11/8/12	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-5	11/20/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-5	3/29/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-5	9/26/16	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-6	11/9/12	1.0 U	3.0 U	20 U	3.0 U	**0.48**	3.0 U	**1.4**	0.25 U	5.0 U
DOF-MW-6	11/19/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-6	3/24/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-6	9/27/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.018 J_{RB}**	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-7	11/9/12	1.0 U	**8.5**	20 U	3.0 U	**1.7**	3.0 U	**59**	0.25 U	5.0 U
DOF-MW-7	11/23/15	1.0 U	3.0 U	20 U	3.0 U	**2.8**	3.0 U	**3.7**	0.25 U	5.0 U
DOF-MW-7	3/25/16	0.2 U	**0.6 J**	**2.1**	1.0 U	**2.3**	1.0 U	**2.0**	1.0 U	1.0 U
DOF-MW-7	9/27/16	0.2 U	**0.3 J**	2.0 U	1.0 U	**0.076**	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-8	11/9/12	1.0 U	3.0 U	20 U	3.0 U	**0.10**	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-8	11/20/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DOF-MW-8	3/22/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.03**	1.0 U	0.2 U	1.0 U	1.0 U
DOF-MW-8	9/30/16	0.2 U	1.0 U	**0.8 J_B**	1.0 U	**0.018 J_B**	1.0 U	0.2 U	1.0 U	1.0 U
HC-B1	11/13/12	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
HC-B1	11/19/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
HC-B1	3/24/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.018**	1.0 U	0.2 U	1.0 U	1.0 U
HC-B1	9/30/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.010 J_B**	1.0 U	0.2 U	1.0 U	1.0 U
HC-B2(R)	11/11/15	-----	-----	-----	-----	-----	-----	-----	0.25 U	-----
HC-B2(R)	3/23/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isophorone	2,4-Dimethyl-phenol	Benzoic acid	2,4-Dichloro-phenol	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro-phenol
		78-59-1	105-67-9	65-85-0	120-83-2	91-20-3	59-50-7	91-57-6	88-06-2	95-95-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	1.0 U	**1.8 J**	20 U	**1.4 J**	**23**	3.0 U	**80**	**0.43**	5.0 U
SA-MW1	3/24/16	0.2 U	**1.7**	2.0 U	**2.2**	**25**	1.0 U	**46**	1.0 U	1.0 U
SA-MW1	9/30/16	0.2 U	**3.5**	2.0 U	**3.0**	**23**	1.0 U	**49**	**0.6 J**	**0.4 J**
SA-MW2	11/9/12	1.0 U	3.0 U	20 U	3.0 U	**0.06**	3.0 U	1.0 U	0.25 U	5.0 U
SA-MW2	11/20/15	1.0 U	3.0 U	20 U	3.0 U	**0.61**	3.0 U	1.0 U	0.25 U	5.0 U
SA-MW2	3/29/16	0.2 U	**0.71 J**	2.0 U	1.0 U	**0.10**	1.0 U	0.2 U	1.0 U	1.0 U
SA-MW2	9/30/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.6**	1.0 U	**0.3**	1.0 U	1.0 U
SA-MW3	11/13/12	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
SA-MW3	11/19/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
SA-MW3	3/28/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.1 J**	1.0 U	0.2 U	1.0 U	1.0 U
SA-MW3	9/27/16	0.2 U	1.0 U	**1.0 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.25 U	-----
MW-Ap	3/25/16	0.2 U	1.0 U	2.0 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.25 U	-----
MW-Bp	3/25/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.04 J**	1.0 U	0.2 U	1.0 U	1.0 U
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.25 U	-----
MW-Cp	3/25/16	0.2 U	**0.3 J**	2.0 U	1.0 U	**0.4**	1.0 U	**0.1 J**	1.0 U	1.0 U
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	0.25 U	-----
MW-Dp	3/28/16	0.2 U	1.0 U	2.0 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-Du	3/28/16	0.2 U	1.0 U	**0.3 J**	1.0 U	**0.016**	1.0 U	0.2 U	1.0 U	1.0 U
MW-Du	10/1/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.010 J_B**	1.0 U	0.2 U	1.0 U	1.0 U
MW-Eu	11/19/15	1.0 U	3.0 U	20 U	3.0 U	**1.6**	3.0 U	1.0 U	0.25 U	5.0 U
MW-Eu	3/24/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.4**	1.0 U	0.2 U	1.0 U	1.0 U
MW-Eu	9/30/16	0.2 U	1.0 U	**0.8 J_B**	1.0 U	**0.041**	1.0 U	0.2 U	1.0 U	1.0 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isophorone	2,4-Dimethyl-phenol	Benzoic acid	2,4-Dichloro-phenol	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro-phenol
		78-59-1	105-67-9	65-85-0	120-83-2	91-20-3	59-50-7	91-57-6	88-06-2	95-95-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-Fu	3/23/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-Fu	9/28/16	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-FL	11/10/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-FL	3/23/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.039**	1.0 U	0.2 U	1.0 U	1.0 U
MW-FL	9/28/16	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-Gu	11/10/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-Gu	3/23/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.040**	1.0 U	0.2 U	1.0 U	1.0 U
MW-Gu	9/28/16	0.2 U	1.0 U	**0.6 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-GL	11/10/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-GL	3/23/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-GL	9/28/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-HL	11/18/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-HL	3/29/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-HL	9/27/16	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-IL	11/20/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-IL	3/28/16	0.2 U	1.0 U	**0.4 J**	1.0 U	**0.04 J**	1.0 U	0.2 U	1.0 U	1.0 U
MW-IL	9/27/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-Ju	11/20/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-Ju	3/28/16	0.2 U	1.0 U	2.0 U	1.0 U	**0.015**	1.0 U	0.2 U	1.0 U	1.0 U
MW-Ju	9/27/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.023**	1.0 U	0.2 U	1.0 U	1.0 U
MW-Ku	11/10/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-Ku	3/22/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-Ku	9/28/16	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-KL	11/10/15	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
MW-KL	3/22/16	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
MW-KL	9/28/16	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
Seep 1	5/4/07	-	2.3 U	5.6 U	-	0.23 U	-	0.23 U	-	-
Seep 1	7/5/12	1.0 U	1.0 U	10 U	5.0 U	1.0 U	5.0 U	1.0 U	0.25 U	5.0 U
Seep 2	5/7/07	-	2 U	4.9 U	-	**0.12 J**	-	0.2 U	-	-
Seep 2	7/5/12	1.0 U	1.0 U	10 U	5.0 U	1.0 U	5.0 U	1.0 U	0.25 U	5.0 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Isophorone	2,4-Dimethyl-phenol	Benzoic acid	2,4-Dichloro-phenol	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro-phenol
		78-59-1	105-67-9	65-85-0	120-83-2	91-20-3	59-50-7	91-57-6	88-06-2	95-95-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		109	111	111	109	111	109	111	110	109
Number of Detects		0	10	24	3	45	0	16	2	1
Percent Detected		0.0%	9.0%	21.6%	2.8%	40.5%	0.0%	14.4%	1.8%	0.9%
Highest Conc.		<0.2	65	18	3.0	25	<1.0	80	0.43	<1.0

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaph-thylene	Acenaphthene	Dibenzo-furan	2,6-Dinitro-toluene	2,4-Dinitro-toluene	Diethyl-phthalate	4-Chlorophenyl-phenylether
		91-58-7	131-11-3	208-96-8	83-32-9	132-64-9	606-20-2	121-14-2	84-66-2	7005-72-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	100	600	-----	5.3	16	300	0.18	93	-----
P11	11/17/14	1.0 U	1.0 U	0.10 U	**0.15**	**0.09**	3.0 U	3.0 U	1.0 U	1.0 U
P12	11/17/14	1.0 U	1.0 U	0.10 U	**0.07**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P13	11/13/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P14	11/14/14	1.0 U	1.0 U	**0.12**	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P15	11/14/14	1.0 U	1.0 U	0.10 U	**0.46**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P16	12/10/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P18A	12/16/14	1.0 U	1.0 U	0.10 U	**0.06**	**0.05**	3.0 U	3.0 U	1.0 U	1.0 U
P18B	12/16/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P20	11/12/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P21A	12/8/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P21B	12/8/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P23	11/12/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P26	11/13/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P27A	11/11/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P27B	11/11/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P28	12/15/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P29	12/10/14	1.0 U	1.0 U	0.10 U	**0.09**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P30	12/9/14	1.0 U	1.0 U	0.10 U	**0.07**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P31	12/9/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P32A	12/15/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P32B	12/15/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
P33A	12/8/14	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	**0.8**	1.0 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells										
DOF-MW-1	11/8/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-1	11/11/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-1	3/22/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-1	9/26/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.1 J**	0.2 U
DOF-MW-2	11/8/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-2	11/11/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-2	3/22/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-2	9/26/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaph-thylene	Acenaphthene	Dibenzo-furan	2,6-Dinitro-toluene	2,4-Dinitro-toluene	Diethyl-phthalate	4-Chlorophenyl-phenylether
		91-58-7	131-11-3	208-96-8	83-32-9	132-64-9	606-20-2	121-14-2	84-66-2	7005-72-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-3	11/20/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-3	3/24/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-3	9/26/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U
DOF-MW-4	11/8/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-4	11/11/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-4	3/29/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-4	9/26/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U
DOF-MW-5	11/8/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-5	11/20/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-5	3/29/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-5	9/26/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-6	11/9/12	1.0 U	1.0 U	0.10 U	**0.11**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-6	11/19/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-6	3/24/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-6	9/27/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U
DOF-MW-7	11/9/12	1.0 U	1.0 U	**0.1**	**0.48**	**0.06**	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-7	11/23/15	1.0 U	1.0 U	0.10 U	**0.17**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-7	3/25/16	0.2 U	0.2 U	0.01 U	**0.3**	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-7	9/27/16	0.2 U	0.2 U	**0.009 J**	**0.20**	**0.008 J**	1.0 U	1.0 U	**0.2 J**	0.2 U
DOF-MW-8	11/9/12	1.0 U	1.0 U	**0.07**	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-8	11/20/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DOF-MW-8	3/22/16	0.2 U	0.2 U	0.01 U	**0.012 J_Q**	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
DOF-MW-8	9/30/16	0.2 U	0.2 U	**0.010 J**	**0.014**	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
HC-B1	11/13/12	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
HC-B1	11/19/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
HC-B1	3/24/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
HC-B1	9/30/16	0.2 U	0.2 U	0.010 U	**0.005 J**	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
HC-B2(R)	11/11/15	-----	-----	-----	-----	-----	-----	-----	-----	-----
HC-B2(R)	3/23/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaph-thylene	Acenaphthene	Dibenzo-furan	2,6-Dinitro-toluene	2,4-Dinitro-toluene	Diethyl-phthalate	4-Chlorophenyl-phenylether
		91-58-7	131-11-3	208-96-8	83-32-9	132-64-9	606-20-2	121-14-2	84-66-2	7005-72-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	1.0 U	1.0 U	**0.09 J**	**1.0**	**0.42**	3.0 U	3.0 U	1.0 U	1.0 U
SA-MW1	3/24/16	**0.1 J**	0.2 U	**0.060**	**0.81**	**0.30**	1.0 U	1.0 U	0.2 U	0.2 U
SA-MW1	9/30/16	0.2 U	0.2 U	**0.10**	**0.8**	**0.30**	1.0 U	1.0 U	0.2 U	0.2 U
SA-MW2	11/9/12	1.0 U	1.0 U	0.10 U	**0.1**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
SA-MW2	11/20/15	1.0 U	1.0 U	0.10 U	**0.11**	**0.06 J**	3.0 U	3.0 U	1.0 U	1.0 U
SA-MW2	3/29/16	0.2 U	0.2 U	0.01 U	**0.042**	**0.016**	1.0 U	1.0 U	0.2 U	0.2 U
SA-MW2	9/30/16	0.2 U	0.2 U	**0.015**	**0.4**	**0.021**	1.0 U	1.0 U	0.2 U	0.2 U
SA-MW3	11/13/12	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
SA-MW3	11/19/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
SA-MW3	3/28/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
SA-MW3	9/27/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	0.2 U	0.2 U	0.2 U	**0.2 J**	**0.1 J**	1.0 U	1.0 U	0.2 U	0.2 U
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	1.0 U	1.0 U	0.10 U	**2.3**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-Du	3/28/16	0.2 U	0.2 U	0.01 U	**2.9**	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Du	10/1/16	0.2 U	0.2 U	**0.006 J**	**3.4**	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Eu	11/19/15	1.0 U	1.0 U	0.10 U	**0.07 J**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-Eu	3/24/16	0.2 U	0.2 U	0.01 U	**0.12**	**0.018**	1.0 U	1.0 U	**0.1 J**	0.2 U
MW-Eu	9/30/16	0.2 U	0.2 U	0.010 U	**0.047**	**0.008 J**	1.0 U	1.0 U	0.2 U	0.2 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaph-thylene	Acenaphthene	Dibenzo-furan	2,6-Dinitro-toluene	2,4-Dinitro-toluene	Diethyl-phthalate	4-Chlorophenyl-phenylether
		91-58-7	131-11-3	208-96-8	83-32-9	132-64-9	606-20-2	121-14-2	84-66-2	7005-72-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-Fu	3/23/16	0.2 U	0.2 U	0.01 U	**0.029 J_Q**	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Fu	9/28/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-FL	11/10/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-FL	3/23/16	0.2 U	0.2 U	0.01 U	**0.023 J_Q**	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-FL	9/28/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Gu	11/10/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-Gu	3/23/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Gu	9/28/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-GL	11/10/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-GL	3/23/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-GL	9/28/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-HL	11/18/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-HL	3/29/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	**0.1 J**	0.2 U
MW-HL	9/27/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.1 J**	0.2 U
MW-IL	11/20/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-IL	3/28/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-IL	9/27/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.1 J**	0.2 U
MW-Ju	11/20/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-Ju	3/28/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Ju	9/27/16	0.2 U	0.2 U	0.010 U	**0.19**	**0.037**	1.0 U	1.0 U	**0.1 J**	0.2 U
MW-Ku	11/10/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-Ku	3/22/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-Ku	9/28/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-KL	11/10/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
MW-KL	3/22/16	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U
MW-KL	9/28/16	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U
Seep 1	5/4/07	-	0.23 U	0.23 U	0.23 U	0.23 U	-	-	**0.05 J**	-
Seep 1	7/5/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U
Seep 2	5/7/07	-	**0.01 J**	0.2 U	0.2 U	0.2 U	-	-	**0.03 J**	-
Seep 2	7/5/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaph-thylene	Acenaphthene	Dibenzo-furan	2,6-Dinitro-toluene	2,4-Dinitro-toluene	Diethyl-phthalate	4-Chlorophenyl-phenylether
		91-58-7	131-11-3	208-96-8	83-32-9	132-64-9	606-20-2	121-14-2	84-66-2	7005-72-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		109	111	111	111	111	109	109	111	109
Number of Detects		1	1	9	31	12	0	0	12	0
Percent Detected		0.9%	0.9%	8.1%	27.9%	10.8%	0.0%	0.0%	10.8%	0.0%
Highest Conc.		0.10	0.01	0.12	3.4	0.42	<1.0	<1.0	0.80	<0.2

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Fluorene	N-Nitrosodi-phenylamine	Pentachloro-phenol	Phen-anthrene	Carbazole	Anthracene	Di-n-butyl-phthalate	Fluoranthene	Pyrene
		86-73-7	86-30-6	87-86-5	85-01-8	86-74-8	120-12-7	84-74-2	206-44-0	129-00-0
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	3.7	0.69	0.025	-----	-----	2.1	8	1.8	2
P11	11/17/14	**0.18**	1.0 U	**0.36**	**0.29**	1.0 U	0.10 U	1.0 U	**0.06**	0.10 U
P12	11/17/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P13	11/13/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P14	11/14/14	0.10 U	0.10 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P15	11/14/14	**0.11**	1.0 U	**0.78**	**0.1**	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P16	12/10/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P18A	12/16/14	**0.08**	1.0 U	0.25 U	**0.28**	1.0 U	**0.06**	1.0 U	**0.20**	**0.18**
P18B	12/16/14	0.10 U	1.0 U	0.25 U	**0.09**	1.0 U	0.10 U	1.0 U	**0.07**	**0.06**
P20	11/12/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P21A	12/8/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P21B	12/8/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P23	11/12/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P26	11/13/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P27A	11/11/14	0.10 U	1.0 U	**0.42**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P27B	11/11/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P28	12/15/14	0.10 U	1.0 U	**0.39**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P29	12/10/14	**0.07**	1.0 U	0.25 U	**0.17**	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P30	12/9/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P31	12/9/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P32A	12/15/14	**0.07**	1.0 U	**7.5**	**0.20**	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P32B	12/15/14	0.10 U	1.0 U	**2.0**	**0.08**	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P33A	12/8/14	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells										
DOF-MW-1	11/8/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-1	11/11/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-1	3/22/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
DOF-MW-1	9/26/16	**0.003 J**	0.2 U	0.025 U	**0.004 J**	0.2 U	0.010 U	0.2 U	**0.003 J**	0.010 U
DOF-MW-2	11/8/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-2	11/11/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-2	3/22/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
DOF-MW-2	9/26/16	0.010 U	0.2 U	0.025 U	**0.009 J**	0.2 U	**0.007 J**	0.2 U	**0.007 J**	**0.004 J**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Fluorene	N-Nitrosodi-phenylamine	Pentachloro-phenol	Phen-anthrene	Carbazole	Anthracene	Di-n-butyl-phthalate	Fluoranthene	Pyrene
		86-73-7	86-30-6	87-86-5	85-01-8	86-74-8	120-12-7	84-74-2	206-44-0	129-00-0
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-3	11/20/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-3	3/24/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
DOF-MW-3	9/26/16	0.010 U	0.2 U	0.025 U	**0.003 J**	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
DOF-MW-4	11/8/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-4	11/11/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-4	3/29/16	0.01 U	0.2 U	**0.015 J**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
DOF-MW-4	9/26/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
DOF-MW-5	11/8/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-5	11/20/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-5	3/29/16	0.01 U	0.2 U	**0.032**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
DOF-MW-5	9/26/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
DOF-MW-6	11/9/12	**0.22**	1.0 U	0.25 U	**0.12**	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-6	11/19/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-6	3/24/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
DOF-MW-6	9/27/16	**0.004 J**	0.2 U	**0.031**	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
DOF-MW-7	11/9/12	**0.40**	1.0 U	**240**	**0.48**	1.0 U	**0.07**	1.0 U	**0.09 J**	**0.08 J**
DOF-MW-7	11/23/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-7	3/25/16	**0.028**	0.2 U	**0.4 J**	**0.024**	0.2 U	0.01 U	0.2 U	**0.014**	0.01 U
DOF-MW-7	9/27/16	**0.020**	0.2 U	0.025 U	**0.007 J**	0.2 U	**0.003 J**	0.2 U	**0.011**	**0.007 J**
DOF-MW-8	11/9/12	0.10 U	1.0 U	**0.76**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-8	11/20/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DOF-MW-8	3/22/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	**0.4**	0.2 U	0.01 U	**0.024 J_Q**
DOF-MW-8	9/30/16	**0.013**	0.2 U	0.025 U	**0.015**	0.2 U	**0.009 J**	0.2 U	**0.012**	**0.014**
HC-B1	11/13/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
HC-B1	11/19/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
HC-B1	3/24/16	0.01 U	0.2 U	0.25 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
HC-B1	9/30/16	0.010 U	0.2 U	0.025 U	**0.004 J**	0.2 U	**0.004 J**	0.2 U	**0.008 J**	**0.010**
HC-B2(R)	11/11/15	-----	-----	0.25 U	-----	-----	-----	-----	-----	-----
HC-B2(R)	3/23/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Fluorene	N-Nitrosodi-phenylamine	Pentachloro-phenol	Phen-anthrene	Carbazole	Anthracene	Di-n-butyl-phthalate	Fluoranthene	Pyrene
		86-73-7	86-30-6	87-86-5	85-01-8	86-74-8	120-12-7	84-74-2	206-44-0	129-00-0
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	**1.0**	**1.9**	0.25 U	**1.4**	1.0 U	**0.10 J**	1.0 U	**0.11**	**0.09 J**
SA-MW1	3/24/16	**0.76**	0.2 U	0.025 U	**1.5**	**1.0**	**0.11**	0.2 U	**0.16**	**0.15 J_Q**
SA-MW1	9/30/16	**1.1**	0.2 U	0.025 U	**1.4**	**1.6**	**0.5**	0.2 U	**0.3**	**0.2**
SA-MW2	11/9/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
SA-MW2	11/20/15	0.10 U	1.0 U	**0.16 J**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
SA-MW2	3/29/16	0.01 U	0.2 U	**0.3 J**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
SA-MW2	9/30/16	**0.023**	**0.1 J**	0.025 U	**0.004 J**	**0.09 J**	0.010 U	**0.5**	**0.022**	**0.027**
SA-MW3	11/13/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
SA-MW3	11/19/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
SA-MW3	3/28/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
SA-MW3	9/27/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-Ap	11/18/15	-----	-----	0.25 U	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	0.2 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	0.25 U	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	0.2 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	**0.18 J**	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	**0.1 J**	0.2 U	1.0 U	**0.2**	**0.2**	**0.2**	**0.2**	**0.1 J**	**0.1 J**
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	0.25 U	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	0.2 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-Du	3/28/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
MW-Du	10/1/16	0.010 U	0.2 U	**0.017 J**	**0.003 J**	0.2 U	0.010 U	0.2 U	**0.004 J**	0.010 U
MW-Eu	11/19/15	0.10 U	1.0 U	0.25 U	**0.09 J**	1.0 U	0.10 U	1.0 U	**0.05 J**	0.10 U
MW-Eu	3/24/16	**0.050**	0.2 U	**0.12 J_P**	**0.061**	0.2 U	**0.013**	0.2 U	**0.036**	**0.039**
MW-Eu	9/30/16	**0.018**	0.2 U	0.025 U	**0.011**	0.2 U	**0.005 J**	0.2 U	**0.009 J**	**0.009 J**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Fluorene	N-Nitrosodi-phenylamine	Pentachloro-phenol	Phen-anthrene	Carbazole	Anthracene	Di-n-butyl-phthalate	Fluoranthene	Pyrene
		86-73-7	86-30-6	87-86-5	85-01-8	86-74-8	120-12-7	84-74-2	206-44-0	129-00-0
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-Fu	3/23/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	**0.038**	0.2 U	0.01 U	**0.032 J_Q**
MW-Fu	9/28/16	0.010 U	0.2 U	**0.028**	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-FL	11/10/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-FL	3/23/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	**0.079**	0.2 U	0.01 U	**0.034 J_Q**
MW-FL	9/28/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-Gu	11/10/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-Gu	3/23/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
MW-Gu	9/28/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-GL	11/10/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-GL	3/23/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
MW-GL	9/28/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-HL	11/18/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-HL	3/29/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
MW-HL	9/27/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-IL	11/20/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-IL	3/28/16	0.01 U	0.2 U	0.025 U	0.01 U	**0.05 J**	0.01 U	0.2 U	0.01 U	0.01 U
MW-IL	9/27/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-Ju	11/20/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-Ju	3/28/16	0.01 U	0.2 U	0.025 U	**0.014**	0.2 U	0.01 U	0.2 U	**0.016**	**0.016**
MW-Ju	9/27/16	**0.11**	0.2 U	0.025 U	**0.077**	0.2 U	**0.007 J**	0.2 U	**0.018**	**0.013**
MW-Ku	11/10/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-Ku	3/22/16	0.01 U	0.2 U	**0.035**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
MW-Ku	9/28/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
MW-KL	11/10/15	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
MW-KL	3/22/16	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
MW-KL	9/28/16	0.010 U	0.2 U	0.025 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U
Seep 1	5/4/07	0.23 U	0.23 U	**0.06 J**	0.23 U	-	0.23 U	**0.11 J**	**0.05 J**	**0.05 J**
Seep 1	7/5/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
Seep 2	5/7/07	0.2 U	0.2 U	0.98 U	**0.02 J**	-	0.2 U	**0.07 J**	**0.02 J**	**0.02 J**
Seep 2	7/5/12	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Fluorene	N-Nitrosodi-phenylamine	Pentachloro-phenol	Phen-anthrene	Carbazole	Anthracene	Di-n-butyl-phthalate	Fluoranthene	Pyrene
		86-73-7	86-30-6	87-86-5	85-01-8	86-74-8	120-12-7	84-74-2	206-44-0	129-00-0
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		111	111	111	111	109	111	111	111	111
Number of Detects		20	2	20	28	4	16	4	23	21
Percent Detected		18.0%	1.8%	18.0%	25.2%	3.7%	14.4%	3.6%	20.7%	18.9%
Highest Conc.		1.1	1.9	240	1.5	1.6	0.50	0.50	0.30	0.20

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Butylbenzyl-phthalate	Benzo(a)-anthracene	*bis* (2-Ethylhexyl)-phthalate	Chrysene	Di-n-octyl-phthalate	total Benzo-fluoran-thenes	Benzo(a)-pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
		85-68-7	56-55-3	117-81-7	218-01-9	117-84-0		50-32-8	193-39-5	53-70-3	191-24-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	0.2	0.01	0.2	0.016	0.2	0.01	0.01	0.01	0.01	-----
P11	11/17/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P12	11/17/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P13	11/13/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P14	11/14/14	1.0 U	0.10 U	**10**	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P15	11/14/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P16	12/10/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P18A	12/16/14	1.0 U	**0.08**	3.0 U	**0.09**	1.0 U	**0.08**	**0.07**	0.10 U	0.10 U	**0.05**
P18B	12/16/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P20	11/12/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P21A	12/8/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P21B	12/8/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P23	11/12/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P26	11/13/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P27A	11/11/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P27B	11/11/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P28	12/15/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P29	12/10/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P30	12/9/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P31	12/9/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P32A	12/15/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P32B	12/15/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P33A	12/8/14	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells											
DOF-MW-1	11/8/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-1	11/11/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-1	3/22/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-1	9/26/16	0.2 U	0.010 U	**2.3**	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-2	11/8/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-2	11/11/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-2	3/22/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-2	9/26/16	0.2 U	0.010 U	**0.9**	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Butylbenzyl-phthalate	Benzo(a)-anthracene	*bis* (2-Ethylhexyl)-phthalate	Chrysene	Di-n-octyl-phthalate	total Benzo-fluoran-thenes	Benzo(a)-pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
		85-68-7	56-55-3	117-81-7	218-01-9	117-84-0		50-32-8	193-39-5	53-70-3	191-24-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-3	11/20/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-3	3/24/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-3	9/26/16	0.2 U	0.010 U	**0.2**	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-4	11/8/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-4	11/11/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-4	3/29/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-4	9/26/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-5	11/8/12	1.0 U	0.10 U	**1.6 J**	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-5	11/20/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-5	3/29/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-5	9/26/16	0.2 U	0.010 U	**0.3**	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-6	11/9/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-6	11/19/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-6	3/24/16	0.2 U	0.01 U	**0.3 J_B**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-6	9/27/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-7	11/9/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-7	11/23/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-7	3/25/16	0.2 U	0.01 U	**0.1 J**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-7	9/27/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-8	11/9/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-8	11/20/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
DOF-MW-8	3/22/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DOF-MW-8	9/30/16	0.2 U	**0.009 J**	0.2 U	**0.010**	0.2 U	**0.018**	**0.009 J**	**0.009 J**	**0.007 J**	**0.009 J**
HC-B1	11/13/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
HC-B1	11/19/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
HC-B1	3/24/16	0.2 U	0.01 U	**0.1 J_B**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
HC-B1	9/30/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
HC-B2(R)	11/11/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HC-B2(R)	3/23/16	0.2 U	0.01 U	**0.4 J_B**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Butylbenzyl-phthalate	Benzo(a)-anthracene	*bis* (2-Ethylhexyl)-phthalate	Chrysene	Di-n-octyl-phthalate	total Benzo-fluoran-thenes	Benzo(a)-pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
		85-68-7	56-55-3	117-81-7	218-01-9	117-84-0		50-32-8	193-39-5	53-70-3	191-24-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
SA-MW1	3/24/16	0.2 U	**0.017**	**0.6**	**0.030**	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
SA-MW1	9/30/16	0.2 U	**0.020**	0.2 U	**0.034**	0.2 U	**0.015**	**0.007 J**	**0.004 J**	0.010 U	**0.007 J**
SA-MW2	11/9/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
SA-MW2	11/20/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
SA-MW2	3/29/16	0.2 U	0.01 U	**0.1 J**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
SA-MW2	9/30/16	0.2 U	0.010 U	**0.4**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SA-MW3	11/13/12	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
SA-MW3	11/19/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
SA-MW3	3/28/16	0.2 U	0.01 U	**0.1 J**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
SA-MW3	9/27/16	0.2 U	0.010 U	**3.1**	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	0.2 U	0.2 U	**0.2 J**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	0.2 U	0.2 U	**0.2 J**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	0.2 U	**0.1 J**	**0.2 J**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-Du	3/28/16	0.2 U	0.01 U	**0.2**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-Du	10/1/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Eu	11/19/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-Eu	3/24/16	0.2 U	0.01 U	**1.2**	**0.011**	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-Eu	9/30/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Butylbenzyl-phthalate	Benzo(a)-anthracene	*bis* (2-Ethylhexyl)-phthalate	Chrysene	Di-n-octyl-phthalate	total Benzo-fluoran-thenes	Benzo(a)-pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
		85-68-7	56-55-3	117-81-7	218-01-9	117-84-0		50-32-8	193-39-5	53-70-3	191-24-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-Fu	3/23/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-Fu	9/28/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-FL	11/10/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-FL	3/23/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-FL	9/28/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Gu	11/10/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-Gu	3/23/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-Gu	9/28/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-GL	11/10/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-GL	3/23/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-GL	9/28/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-HL	11/18/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-HL	3/29/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-HL	9/27/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-IL	11/20/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-IL	3/28/16	0.2 U	0.01 U	**0.2**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-IL	9/27/16	0.2 U	0.010 U	**0.2 J_B**	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ju	11/20/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-Ju	3/28/16	0.2 U	0.01 U	**0.4**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-Ju	9/27/16	0.2 U	0.010 U	**5.1**	0.010 U	**0.7**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ku	11/10/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-Ku	3/22/16	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-Ku	9/28/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-KL	11/10/15	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MW-KL	3/22/16	0.2 U	0.01 U	**0.5**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
MW-KL	9/28/16	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Seep 1	5/4/07	0.23 U	0.23 U	1.2 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Seep 1	7/5/12	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U
Seep 2	5/7/07	0.2 U	0.2 U	0.98 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Seep 2	7/5/12	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Butylbenzyl-phthalate	Benzo(a)-anthracene	*bis* (2-Ethylhexyl)-phthalate	Chrysene	Di-n-octyl-phthalate	total Benzo-fluoran-thenes	Benzo(a)-pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
		85-68-7	56-55-3	117-81-7	218-01-9	117-84-0		50-32-8	193-39-5	53-70-3	191-24-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		111	111	111	111	111	111	111	111	111	111
Number of Detects		0	5	26	5	1	3	3	2	1	3
Percent Detected		0.0%	4.5%	23.4%	4.5%	0.9%	2.7%	2.7%	1.8%	0.9%	2.7%
Highest Conc.		<0.2	0.10	10	0.09	0.70	0.08	0.07	<0.01	<0.01	0.05

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	LPAH	HPAH	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I
				319-84-6	319-85-7	319-86-8	58-89-9	76-44-8	309-00-2	1024-57-3	959-98-8
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	-----	-----	0.0006	0.0014	-----	0.13	0.0006	0.0006	0.0006	0.0006
P11	11/17/14	**1.2**	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P12	11/17/14	**0.21**	0.10 U	0.0025 U	0.0040 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.016 U	0.0025 U
P13	11/13/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P14	11/14/14	**0.26**	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P15	11/14/14	**2.1**	0.10 U	0.0042 U	0.0083 U	0.0025 U	0.0025 U	0.011 U	0.0037 U	0.0058 U	0.0068 U
P16	12/10/14	0.10 U	0.10 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
P18A	12/16/14	**0.67**	**0.75**	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0025 U	0.0025 U	0.0025 U
P18B	12/16/14	**0.18**	**0.13**	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P20	11/12/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P21A	12/8/14	**0.11**	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0077 U	0.0025 U
P21B	12/8/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P23	11/12/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0026 U	0.0025 U
P26	11/13/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P27A	11/11/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P27B	11/11/14	0.10 U	0.10 U	0.0025 U	0.0029 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P28	12/15/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P29	12/10/14	**0.48**	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.010 U	0.021 U	0.019 U	0.0025 U
P30	12/9/14	**0.12**	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.010 U
P31	12/9/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0034 U	0.0025 U	0.0025 U	0.0025 U
P32A	12/15/14	**0.36**	0.10 U	0.0025 U	0.0050 U	0.0025 U	0.0025 U	0.0046 U	0.054 U	0.0025 U	0.0025 U
P32B	12/15/14	**0.14**	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0038 U	0.0025 U
P33A	12/8/14	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells											
DOF-MW-1	11/8/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-1	11/11/15	0.10 U	0.10 U	0.00062 U	0.0016 U	0.00062 U	0.00062 U	0.00062 U	0.00086 U	0.0017 U	0.00062 U
DOF-MW-1	3/22/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.013 U	0.0050 U
DOF-MW-1	9/26/16	0.010 U	0.010 U	0.00063 U	0.0025 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.013 U
DOF-MW-2	11/8/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-2	11/11/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-2	3/22/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-2	9/26/16	**0.016**	**0.011**	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	LPAH	HPAH	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I
				319-84-6	319-85-7	319-86-8	58-89-9	76-44-8	309-00-2	1024-57-3	959-98-8
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-3	11/20/15	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-3	3/24/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-3	9/26/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
DOF-MW-4	11/8/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-4	11/11/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-4	3/29/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-4	9/26/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
DOF-MW-5	11/8/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-5	11/20/15	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-5	3/29/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-5	9/26/16	0.010 U	0.010 U	0.00063 U	0.0016 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
DOF-MW-6	11/9/12	**0.93**	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-6	11/19/15	0.10 U	0.10 U	0.00062 U	0.0017 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.00062 U
DOF-MW-6	3/24/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-6	9/27/16	**0.022**	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
DOF-MW-7	11/9/12	**3.23**	**0.17**	0.050 U	0.050 U	0.22 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-7	11/23/15	**2.97**	0.10 U	0.0016 U	0.00062 U	0.00062 U	0.0070 U	0.00062 U	0.00076 U	0.00062 U	0.00062 U
DOF-MW-7	3/25/16	**2.7**	**0.014**	0.00062 U	0.00062 U	0.0066 U	0.0090 U	0.00062 U	0.00062 U	0.00062 U	0.0016 U
DOF-MW-7	9/27/16	**0.31**	**0.018**	0.0013 U	0.00063 U	0.00063 U	0.0062 U	0.00063 U	0.00063 U	0.00063 U	0.0018 U
DOF-MW-8	11/9/12	**0.17**	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DOF-MW-8	11/20/15	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U	0.0011 U	0.00062 U	0.00082 U	0.00062 U	0.00062 U
DOF-MW-8	3/22/16	**0.442**	**0.024**	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DOF-MW-8	9/30/16	**0.079**	**0.097**	0.00063 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.010 U	0.00063 U	0.00063 U
HC-B1	11/13/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HC-B1	11/19/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00071 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
HC-B1	3/24/16	**0.018**	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
HC-B1	9/30/16	**0.023**	**0.018**	0.00063 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
HC-B2(R)	11/11/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HC-B2(R)	3/23/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	LPAH	HPAH	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I
				319-84-6	319-85-7	319-86-8	58-89-9	76-44-8	309-00-2	1024-57-3	959-98-8
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	**26.6**	**0.20**	0.0013 U	0.011 U	0.0085 U	0.017 U	0.00062 U	0.0050 U	0.013 U	0.00062 U
SA-MW1	3/24/16	**28**	**0.36**	0.0018 U	0.013 U	0.012 U	0.017 U	0.0085 U	0.00062 U	0.029 U	0.00062 U
SA-MW1	9/30/16	**27**	**0.59**	0.010 U	0.020 U	0.00063 U	0.010 U	0.020 U	0.010 U	0.040 U	0.00063 U
SA-MW2	11/9/12	**0.16**	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
SA-MW2	11/20/15	**0.72**	0.20 U	0.0014 U	0.0034 U	0.00062 U	0.0017 U	0.0012 U	0.0012 U	0.0033 U	0.00062 U
SA-MW2	3/29/16	**0.14**	0.02 U	0.017 U	0.0088 U	0.0086 U	0.00062 U	0.0038 U	0.0028 U	0.026 U	0.00062 U
SA-MW2	9/30/16	**1.0**	**0.049**	0.00063 U	0.030 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
SA-MW3	11/13/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
SA-MW3	11/19/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
SA-MW3	3/28/16	**0.1**	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
SA-MW3	9/27/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	0.2 U	0.4 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	**0.04**	0.4 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	**1.1**	**0.3**	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	0.2 U	0.4 U	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	**2.3**	0.10 U	0.0013 U	0.00079 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00066 U	0.00062 U
MW-Du	3/28/16	**2.9**	0.02 U	0.0029 U	0.00062 U	0.0022 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Du	10/1/16	**3.4**	0.010 U	0.0029 U	**0.0014 J_P**	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-Eu	11/19/15	**1.76**	0.10 U	0.00073 U	0.0045 U	0.00062 U	0.00082 U	0.0015 U	0.00062 U	0.0040 U	0.00070 U
MW-Eu	3/24/16	**0.64**	**0.086**	0.00062 U	0.0021 U	0.00062 U	0.00062 U	0.0049 U	0.00062 U	0.017 U	0.00062 U
MW-Eu	9/30/16	**0.13**	**0.018**	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.010 U	0.00063 U	0.00063 U	0.00063 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	LPAH	HPAH	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I
				319-84-6	319-85-7	319-86-8	58-89-9	76-44-8	309-00-2	1024-57-3	959-98-8
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Fu	3/23/16	**0.067**	**0.032**	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Fu	9/28/16	0.010 U	0.010 U	0.00063 U	**0.0016**	0.00063 U	**0.0021**	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-FL	11/10/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-FL	3/23/16	**0.14**	**0.034**	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-FL	9/28/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-Gu	11/10/15	0.10 U	0.10 U	0.00062 U	0.0016 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Gu	3/23/16	**0.04**	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Gu	9/28/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-GL	11/10/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-GL	3/23/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-GL	9/28/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-HL	11/18/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-HL	3/29/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-HL	9/27/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-IL	11/20/15	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00079 U	0.00062 U
MW-IL	3/28/16	**0.04**	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0011 U
MW-IL	9/27/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-Ju	11/20/15	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00074 U	0.0017 U	0.00062 U
MW-Ju	3/28/16	**0.029**	**0.032**	0.00062 U	0.00062 U	0.0057 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Ju	9/27/16	**0.41**	**0.031**	0.00063 U	0.0016 U	0.00063 U	0.00063 U	0.0016 U	0.00063 U	0.00063 U	0.00063 U
MW-Ku	11/10/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Ku	3/22/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-Ku	9/28/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
MW-KL	11/10/15	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-KL	3/22/16	0.01 U	0.02 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
MW-KL	9/28/16	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
Seep 1	5/4/07	**0.10**	0.23 U	-	-	-	0.00053 U	-	0.00053 U	-	-
Seep 1	7/5/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Seep 2	5/7/07	**0.18**	0.2 U	-	-	-	**0.0011 J**	-	0.00049 U	-	-
Seep 2	7/5/12	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	LPAH	HPAH	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I
				319-84-6	319-85-7	319-86-8	58-89-9	76-44-8	309-00-2	1024-57-3	959-98-8
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		109	109	105	105	105	107	105	107	105	105
Number of Detects		45	19	0	1	0	2	0	0	0	0
Percent Detected		41.3%	17.4%	0.0%	1.0%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%
Highest Conc.		28	0.75	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081)
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dieldrin	4,4'-DDE	Endrin	Endo-sulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Meth-oxychlor	Endrin ketone	Endrin aldehyde
		60-57-1	72-55-9	72-20-8	33213-65-9	72-54-8	1031-07-8	50-29-3	72-43-5	53494-70-5	7421-93-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	0.0013	0.0013	0.002	0.0087	0.0013	10	0.0013	0.02	-----	0.035
P11	11/17/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P12	11/17/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P13	11/13/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P14	11/14/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P15	11/14/14	0.0050 U	0.011 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P16	12/10/14	**0.14**	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.25 U	0.050 U	0.050 U
P18A	12/16/14	0.0050 U	**0.020 Jp**	0.0050 U	0.0072 U	**0.016 Jp**	0.0050 U	0.019 U	0.025 U	0.0050 U	0.0050 U
P18B	12/16/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P20	11/12/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P21A	12/8/14	0.0050 U	**0.029 Jp**	0.0050 U	0.0050 U	**0.040 Jp**	0.0050 U	0.019 U	0.025 U	0.0050 U	0.0050 U
P21B	12/8/14	0.0050 U	**0.010**	0.0050 U	0.0050 U	**0.016 Jp**	0.0050 U	0.010 U	0.025 U	0.0050 U	0.0050 U
P23	11/12/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P26	11/13/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P27A	11/11/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P27B	11/11/14	**0.036**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P28	12/15/14	0.017 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.038 U	0.025 U	0.031 U	0.0050 U
P29	12/10/14	0.014 U	**0.030 Jp**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.045 U	0.025 U	0.028 U	0.0050 U
P30	12/9/14	0.0050 U	0.038 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.037 U	0.025 U	0.0050 U	0.0050 U
P31	12/9/14	0.012 U	**0.033 Jp**	0.0050 U	0.0050 U	**0.039 Jp**	0.0050 U	0.026 U	0.025 U	0.0050 U	0.0050 U
P32A	12/15/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.021 U	0.025 U	0.0050 U	0.0050 U
P32B	12/15/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
P33A	12/8/14	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.022 U	0.025 U	0.0050 U	0.0050 U
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells											
DOF-MW-1	11/8/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-1	11/11/15	0.0018 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0022 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-1	3/22/16	0.021 U	0.0012 U	0.0045 U	0.0049 U	0.041 U	0.0012 U	0.021 U	0.0062 U	0.015 U	0.023 U
DOF-MW-1	9/26/16	0.0054 U	**0.0024**	0.0013 U	0.0013 U	**0.0024 J_P**	0.0013 U	0.014 U	0.0063 U	0.007 U	0.007 U
DOF-MW-2	11/8/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-2	11/11/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-2	3/22/16	0.0012 U	0.0012 U	0.0012 U	0.0017 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-2	9/26/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dieldrin	4,4'-DDE	Endrin	Endo-sulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Meth-oxychlor	Endrin ketone	Endrin aldehyde
		60-57-1	72-55-9	72-20-8	33213-65-9	72-54-8	1031-07-8	50-29-3	72-43-5	53494-70-5	7421-93-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-3	11/20/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-3	3/24/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-3	9/26/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
DOF-MW-4	11/8/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-4	11/11/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-4	3/29/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-4	9/26/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
DOF-MW-5	11/8/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-5	11/20/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-5	3/29/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-5	9/26/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
DOF-MW-6	11/9/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-6	11/19/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-6	3/24/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-6	9/27/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
DOF-MW-7	11/9/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-7	11/23/15	0.0012 U	0.0012 U	0.0012 U	0.0035 U	0.0012 U	0.0014 U	0.0044 U	0.0062 U	0.0042 U	0.0012 U
DOF-MW-7	3/25/16	0.0012 U	0.0012 U	0.0012 U	0.0021 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-7	9/27/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
DOF-MW-8	11/9/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
DOF-MW-8	11/20/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-8	3/22/16	0.0012 U	0.0012 U	0.0012 U	0.0023 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DOF-MW-8	9/30/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
HC-B1	11/13/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
HC-B1	11/19/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
HC-B1	3/24/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
HC-B1	9/30/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
HC-B2(R)	11/11/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HC-B2(R)	3/23/16	0.0012 U	**0.0012 J**	0.0012 U	0.0012 U	**0.0026 J_P**	0.0012 U	**0.0050**	0.0062 U	0.0012 U	0.0012 U
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dieldrin	4,4'-DDE	Endrin	Endo-sulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Meth-oxychlor	Endrin ketone	Endrin aldehyde
		60-57-1	72-55-9	72-20-8	33213-65-9	72-54-8	1031-07-8	50-29-3	72-43-5	53494-70-5	7421-93-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	0.0012 U	0.011 U	0.0036 U	0.034 U	0.0021 U	0.013 U	0.024 U	0.16 U	0.0089 U	0.0064 U
SA-MW1	3/24/16	0.0058 U	0.021 U	0.0025 U	0.024 U	0.0012 U	0.013 U	0.019 U	0.076 U	0.0012 U	0.0074 U
SA-MW1	9/30/16	0.010 U	**0.058 J_P**	0.010 U	0.50 U	0.010 U	0.055 U	0.070 U	0.30 U	0.0013 U	0.015 U
SA-MW2	11/9/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
SA-MW2	11/20/15	0.0012 U	0.0014 U	0.0012 U	0.0018 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0018 U	0.0012 U
SA-MW2	3/29/16	0.0012 U	0.0037 U	0.0012 U	0.0022 U	0.0035 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
SA-MW2	9/30/16	0.0013 U	0.010 U	0.0013 U	0.0013 U	**0.0044**	0.0013 U	0.010 U	0.0063 U	0.0013 U	0.0013 U
SA-MW3	11/13/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
SA-MW3	11/19/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
SA-MW3	3/28/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
SA-MW3	9/27/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-Ap	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	3/25/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	11/18/15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	3/28/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Dp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Du	11/18/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0062 U	0.0012 U	0.0012 U
MW-Du	3/28/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Du	10/1/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-Eu	11/19/15	0.0012 U	**0.013 J_P**	0.0026 U	0.0012 U	0.0012 U	0.0012 U	0.022 U	0.0062 U	0.0012 U	0.0012 U
MW-Eu	3/24/16	0.0012 U	0.033 U	0.0039 U	0.0012 U	0.015 U	0.0012 U	0.015 U	0.067 U	0.012 U	0.019 U
MW-Eu	9/30/16	0.0013 U	0.020 U	0.0013 U	0.0013 U	**0.010**	0.0013 U	0.010 U	0.0063 U	0.0013 U	0.0013 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dieldrin	4,4'-DDE	Endrin	Endo-sulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Meth-oxychlor	Endrin ketone	Endrin aldehyde
		60-57-1	72-55-9	72-20-8	33213-65-9	72-54-8	1031-07-8	50-29-3	72-43-5	53494-70-5	7421-93-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Fu	3/23/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Fu	9/28/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-FL	11/10/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-FL	3/23/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-FL	9/28/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-Gu	11/10/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Gu	3/23/16	0.0012 U	0.0012 U	0.0012 U	0.0016 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Gu	9/28/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-GL	11/10/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-GL	3/23/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-GL	9/28/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-HL	11/18/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0015 U	0.0062 U	0.0012 U	0.0012 U
MW-HL	3/29/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-HL	9/27/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-IL	11/20/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-IL	3/28/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-IL	9/27/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	**0.0017**	0.0063 U	0.0013 U	0.0013 U
MW-Ju	11/20/15	0.0020 U	0.0020 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0062 U	0.0015 U	0.0012 U
MW-Ju	3/28/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Ju	9/27/16	0.0013 U	**0.0026 J_P**	0.0013 U	0.061 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-Ku	11/10/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Ku	3/22/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-Ku	9/28/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
MW-KL	11/10/15	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-KL	3/22/16	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
MW-KL	9/28/16	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
Seep 1	5/4/07	-	**0.016**	-	-	**0.013 J**	-	**0.09 J**	-	-	-
Seep 1	7/5/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U
Seep 2	5/7/07	-	**0.0022**	-	-	0.00049 U	-	**0.002 J**	-	-	-
Seep 2	7/5/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U	0.10 U	0.10 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Dieldrin	4,4'-DDE	Endrin	Endo-sulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Meth-oxychlor	Endrin ketone	Endrin aldehyde
		60-57-1	72-55-9	72-20-8	33213-65-9	72-54-8	1031-07-8	50-29-3	72-43-5	53494-70-5	7421-93-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		105	107	105	105	107	105	107	105	105	105
Number of Detects		2	11	0	0	8	0	3	0	0	0
Percent Detected		1.9%	10.3%	0.0%	0.0%	7.5%	0.0%	2.8%	0.0%	0.0%	0.0%
Highest Conc.		0.14	0.03	<0.0012	<0.0012	0.04	<0.0012	0.005	<0.0006	<0.0012	<0.0012

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	trans-Chlordane	cis-Chlordane	Toxaphene	Hexachloro-benzene	Hexachloro-butadiene	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		5103-74-2	5103-71-9	8001-35-2	118-74-1	87-68-3	12674-11-2	53469-21-9	12672-29-6	11097-69-1	11096-82-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes	**SLs**	0.0006	0.0006	0.13	0.0013	0.01	-----	-----	-----	-----	-----
P11	11/17/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
P12	11/17/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	**0.0060 J**	0.010 U
P13	11/13/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	**0.016**	**0.017**
P14	11/14/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
P15	11/14/14	0.0098 U	0.0054 U	0.25 U	0.0058 U	0.0070 U	0.010 U	0.010 U	0.012 U	0.010 U	0.010 U
P16	12/10/14	0.025 U	0.025 U	2.5 U	0.050 U	0.050 U	0.010 U	0.010 U	**0.065**	**0.074**	**0.020**
P18A	12/16/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.34**	**0.18**	**0.070**
P18B	12/16/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.060**	**0.034**	**0.016**
P20	11/12/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
P21A	12/8/14	0.0025 U	0.0038 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.37**	**0.36**	**0.12**
P21B	12/8/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.17**	**0.16**	**0.049**
P23	11/12/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
P26	11/13/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.012 U	**0.020**
P27A	11/11/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
P27B	11/11/14	**0.0087**	**0.010**	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.015 U	0.025 U	**0.016**
P28	12/15/14	**0.016**	**0.029 J**	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.050 U	**0.23**	**0.47**
P29	12/10/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.89**	**0.54**	**0.33**
P30	12/9/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.074**	**0.070**	**0.019**
P31	12/9/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.13**	**0.14**	**0.078**
P32A	12/15/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.23**	**0.13**	**0.073**
P32B	12/15/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.094**	**0.063**	**0.045**
P33A	12/8/14	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.015 U	**0.12**	**0.18**
P33B	12/8/14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Monitoring Wells											
DOF-MW-1	11/8/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	**0.12**	**0.16**	**0.14**
DOF-MW-1	11/11/15	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	**0.084**	**0.18**	**0.23**
DOF-MW-1	3/22/16	0.0029 U	0.0072 U	0.063 U	0.0012 U	0.0056 U	0.010 U	0.010 U	0.15 U	**0.66**	**0.85**
DOF-MW-1	9/26/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	**0.049**	0.10 U	**0.11**
DOF-MW-2	11/8/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-2	11/11/15	0.00072 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-2	3/22/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-2	9/26/16	0.00063 U	0.00063 U	0.13 U	**0.00186**	0.50 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	trans-Chlordane	cis-Chlordane	Toxaphene	Hexachloro-benzene	Hexachloro-butadiene	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		5103-74-2	5103-71-9	8001-35-2	118-74-1	87-68-3	12674-11-2	53469-21-9	12672-29-6	11097-69-1	11096-82-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-3	11/20/15	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-3	3/24/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-3	9/26/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-4	11/8/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-4	11/11/15	0.00064 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-4	3/29/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-4	9/26/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0017 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-5	11/8/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-5	11/20/15	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-5	3/29/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-5	9/26/16	0.00063 U	0.00063 U	0.13 U	0.50 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-6	11/9/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	0.12 U	0.062 U	**0.068**
DOF-MW-6	11/19/15	**0.0046**	**0.0046**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.030 U	0.025 U	**0.008 J**
DOF-MW-6	3/24/16	**0.0032**	**0.0027**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.015 U	0.025 U	0.010 U
DOF-MW-6	9/27/16	**0.0040**	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.035 U	0.010 U	0.010 U	**0.007 J**
DOF-MW-7	11/9/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	**0.10**	0.010 U	**0.028**	**0.012**
DOF-MW-7	11/23/15	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.043**	0.010 U	0.010 U	0.010 U
DOF-MW-7	3/25/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.057**	0.010 U	0.010 U	0.010 U
DOF-MW-7	9/27/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	**0.043**	0.010 U	**0.013**	**0.003 J**
DOF-MW-8	11/9/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	**0.033**	**0.029**	**0.017**
DOF-MW-8	11/20/15	0.00062 U	0.00062 U	0.063 U	0.0014 U	0.0012 U	0.010 U	0.010 U	**0.013**	**0.013**	**0.003 J**
DOF-MW-8	3/22/16	0.00062 U	0.00062 U	0.063 U	0.0081 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
DOF-MW-8	9/30/16	0.00063 U	0.00063 U	0.13 U	0.010 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
HC-B1	11/13/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	**0.052**	0.010 U	0.012 U	0.010 U
HC-B1	11/19/15	0.0010 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.057**	**0.046**	0.010 U	0.010 U
HC-B1	3/24/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.054**	0.010 U	0.010 U	0.010 U
HC-B1	9/30/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	**0.048**	0.010 U	0.010 U	0.010 U
HC-B2(R)	11/11/15	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.015 U	0.015 U	0.010 U
HC-B2(R)	3/23/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.020 U	0.050 U	**0.028**
HC-B2R	9/30/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	trans-Chlordane	cis-Chlordane	Toxaphene	Hexachloro-benzene	Hexachloro-butadiene	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		5103-74-2	5103-71-9	8001-35-2	118-74-1	87-68-3	12674-11-2	53469-21-9	12672-29-6	11097-69-1	11096-82-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SA-MW1	11/23/15	0.00062 U	0.0034 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**4.4**	0.010 U	**1.8**	**0.71**
SA-MW1	3/24/16	0.0082 U	0.0098 U	0.063 U	0.012 U	0.017 U	0.010 U	**1.7**	0.010 U	**0.58**	**0.25**
SA-MW1	9/30/16	0.50 U	0.00063 U	0.13 U	0.017 U	0.010 U	0.010 U	**2.1**	0.010 U	**0.69**	**0.48**
SA-MW2	11/9/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	**0.063**	0.010 U	**0.036**	**0.016**
SA-MW2	11/20/15	0.00062 U	0.00062 U	0.063 U	0.0029 U	0.0012 U	0.010 U	0.010 U	**0.054**	**0.042**	**0.011**
SA-MW2	3/29/16	0.0017 U	0.00062 U	0.063 U	0.019 U	0.0058 U	0.010 U	0.010 U	**0.078**	**0.089 J_P**	**0.024**
SA-MW2	9/30/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	**0.15**	0.010 U	**0.14**	**0.11**
SA-MW3	11/13/12	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SA-MW3	11/19/15	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SA-MW3	3/28/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
SA-MW3	9/27/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ap	11/18/15	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ap	3/25/16	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ap	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Bp	11/18/15	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Bp	3/25/16	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Bp	10/1/16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MW-Cp	11/18/15	-----	-----	-----	-----	-----	0.010 U	0.010 U	**0.054 J_P**	**0.018 J_P**	0.010 U
MW-Cp	3/25/16	-----	-----	-----	-----	-----	0.010 U	**0.041**	0.010 U	0.020 U	0.010 U
MW-Cp	10/1/16	-----	-----	-----	-----	-----	0.010 U	0.010 U	**0.039**	0.015 U	**0.004 J**
MW-Dp	11/18/15	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.010 U	0.025 U	0.010 U
MW-Dp	3/28/16	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.010 U	0.025 U	**0.008 J**
MW-Dp	10/1/16	-----	-----	-----	-----	-----	0.010 U	0.010 U	0.010 U	0.015 U	**0.010**
MW-Du	11/18/15	**0.0023**	**0.0018**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.030 U	**0.007 J**
MW-Du	3/28/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.004 J**
MW-Du	10/1/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.004 J**
MW-Eu	11/19/15	0.00074 U	0.00062 U	0.063 U	0.0016 U	0.0024 U	0.010 U	**0.20**	0.010 U	0.050 U	**0.036**
MW-Eu	3/24/16	0.0021 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.19**	0.010 U	**0.12**	**0.077**
MW-Eu	9/30/16	0.00063 U	0.00063 U	0.13 U	0.010 U	0.0013 U	0.010 U	**0.17**	0.010 U	0.050 U	**0.049**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	trans-Chlordane	cis-Chlordane	Toxaphene	Hexachloro-benzene	Hexachloro-butadiene	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		5103-74-2	5103-71-9	8001-35-2	118-74-1	87-68-3	12674-11-2	53469-21-9	12672-29-6	11097-69-1	11096-82-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Fu	3/23/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Fu	9/28/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-FL	11/10/15	0.00068 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-FL	3/23/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-FL	9/28/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Gu	11/10/15	0.00094 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Gu	3/23/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Gu	9/28/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-GL	11/10/15	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-GL	3/23/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-GL	9/28/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-HL	11/18/15	**0.0058**	**0.0086 J_P**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.020 U	0.030 U	**0.020**
MW-HL	3/29/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-HL	9/27/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.003 J**
MW-IL	11/20/15	**0.0044**	**0.0058 J_P**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.015 U	**0.006 J**
MW-IL	3/28/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-IL	9/27/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ju	11/20/15	0.0016 U	0.0018 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	**0.12**	**0.11**	**0.059**
MW-Ju	3/28/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0054 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.006 J**
MW-Ju	9/27/16	**0.0021 J_P**	0.00063 U	0.13 U	0.0082 U	0.0013 U	0.010 U	0.051 U	0.010 U	0.025 U	**0.017**
MW-Ku	11/10/15	0.00083 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ku	3/22/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-Ku	9/28/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-KL	11/10/15	0.00080 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-KL	3/22/16	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
MW-KL	9/28/16	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Seep 1	5/4/07	-	-	-	0.23 U	-	-	0.021 U	0.021 U	0.021 U	**0.5**
Seep 1	7/5/12	0.050 U	0.050 U	5.0 U	0.050 U	0.050 U	0.010 U	0.010 U	0.025 U	0.075 U	0.010 U
Seep 2	5/7/07	-	0.0049 U	-	0.2 U	-	-	0.02 U	**0.0094 J**	**0.017 J**	**0.02**
Seep 2	7/5/12	0.050 U	0.050 U	5.0 U	0.050 U	0.050 U	0.010 U	0.010 U	0.032 U	**0.14**	**0.16**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	trans-Chlordane	cis-Chlordane	Toxaphene	Hexachloro-benzene	Hexachloro-butadiene	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		5103-74-2	5103-71-9	8001-35-2	118-74-1	87-68-3	12674-11-2	53469-21-9	12672-29-6	11097-69-1	11096-82-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Number of Samples		105	106	105	107	105	105	107	107	107	107
Number of Detects		9	7	0	1	0	0	17	22	33	52
Percent Detected		8.6%	6.6%	0.0%	0.9%	0.0%	0.0%	15.9%	20.6%	30.8%	48.6%
Highest Conc.		0.02	0.03	<0.063	0.002	<0.0012	<0.01	4.4	0.89	1.8	0.85

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081)
SLs - Screening Levels

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Aroclor 1221	Aroclor 1232	total PCBs
		11104-28-2	11141-16-5	
		µg/L	µg/L	µg/L
Push-Probes	**SLs**	-----	-----	0.01
P11	11/17/14	0.010 U	0.010 U	0.010 U
P12	11/17/14	0.010 U	0.010 U	**0.006**
P13	11/13/14	0.010 U	0.010 U	**0.033**
P14	11/14/14	0.010 U	0.010 U	0.010 U
P15	11/14/14	0.010 U	0.010 U	0.012 U
P16	12/10/14	0.010 U	0.010 U	**0.16**
P18A	12/16/14	0.010 U	0.010 U	**0.59**
P18B	12/16/14	0.010 U	0.010 U	**0.11**
P20	11/12/14	0.010 U	0.010 U	0.010 U
P21A	12/8/14	0.010 U	0.010 U	**0.85**
P21B	12/8/14	0.010 U	0.010 U	**0.38**
P23	11/12/14	0.010 U	0.010 U	0.010 U
P26	11/13/14	0.010 U	0.010 U	**0.020**
P27A	11/11/14	0.010 U	0.010 U	0.010 U
P27B	11/11/14	0.010 U	0.010 U	**0.016**
P28	12/15/14	0.010 U	0.010 U	**0.70**
P29	12/10/14	0.010 U	0.010 U	**1.8**
P30	12/9/14	0.010 U	0.010 U	**0.16**
P31	12/9/14	0.010 U	0.010 U	**0.35**
P32A	12/15/14	0.010 U	0.010 U	**0.43**
P32B	12/15/14	0.010 U	0.010 U	**0.20**
P33A	12/8/14	0.010 U	0.010 U	**0.30**
P33B	12/8/14	-----	-----	-----
Monitoring Wells				
DOF-MW-1	11/8/12	0.010 U	0.010 U	**0.42**
DOF-MW-1	11/11/15	0.010 U	0.010 U	**0.494**
DOF-MW-1	3/22/16	0.010 U	0.010 U	**1.51**
DOF-MW-1	9/26/16	0.010 U	0.010 U	**0.16**
DOF-MW-2	11/8/12	0.010 U	0.010 U	0.010 U
DOF-MW-2	11/11/15	0.010 U	0.010 U	0.010 U
DOF-MW-2	3/22/16	0.010 U	0.010 U	0.010 U
DOF-MW-2	9/26/16	0.010 U	0.010 U	0.010 U

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Aroclor 1221	Aroclor 1232	total PCBs
		11104-28-2	11141-16-5	
		µg/L	µg/L	µg/L
DOF-MW-3	11/8/12	0.010 U	0.010 U	0.010 U
DOF-MW-3	11/20/15	0.010 U	0.010 U	0.010 U
DOF-MW-3	3/24/16	0.010 U	0.010 U	0.010 U
DOF-MW-3	9/26/16	0.010 U	0.010 U	0.010 U
DOF-MW-4	11/8/12	0.010 U	0.010 U	0.010 U
DOF-MW-4	11/11/15	0.010 U	0.010 U	0.010 U
DOF-MW-4	3/29/16	0.010 U	0.010 U	0.010 U
DOF-MW-4	9/26/16	0.010 U	0.010 U	0.010 U
DOF-MW-5	11/8/12	0.010 U	0.010 U	0.010 U
DOF-MW-5	11/20/15	0.010 U	0.010 U	0.010 U
DOF-MW-5	3/29/16	0.010 U	0.010 U	0.010 U
DOF-MW-5	9/26/16	0.010 U	0.010 U	0.010 U
DOF-MW-6	11/9/12	0.010 U	0.010 U	**0.068**
DOF-MW-6	11/19/15	0.010 U	0.010 U	**0.008**
DOF-MW-6	3/24/16	0.010 U	0.010 U	0.025 U
DOF-MW-6	9/27/16	0.010 U	0.010 U	0.035 U
DOF-MW-7	11/9/12	0.010 U	0.010 U	**0.14**
DOF-MW-7	11/23/15	0.010 U	0.010 U	**0.043**
DOF-MW-7	3/25/16	0.010 U	0.010 U	**0.057**
DOF-MW-7	9/27/16	0.010 U	0.010 U	**0.059**
DOF-MW-8	11/9/12	0.010 U	0.010 U	**0.079**
DOF-MW-8	11/20/15	0.010 U	0.010 U	**0.029**
DOF-MW-8	3/22/16	0.010 U	0.010 U	0.010 U
DOF-MW-8	9/30/16	0.010 U	0.010 U	0.010 U
HC-B1	11/13/12	0.010 U	0.010 U	**0.052**
HC-B1	11/19/15	0.010 U	0.010 U	**0.103**
HC-B1	3/24/16	0.010 U	0.010 U	**0.054**
HC-B1	9/30/16	0.010 U	0.010 U	**0.048**
HC-B2(R)	11/11/15	0.010 U	0.010 U	0.015 U
HC-B2(R)	3/23/16	0.010 U	0.010 U	**0.028**
HC-B2R	9/30/16	-----	-----	-----

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Aroclor 1221	Aroclor 1232	total PCBs
		11104-28-2	11141-16-5	
		µg/L	µg/L	µg/L
SA-MW1	11/23/15	0.010 U	0.010 U	**6.91**
SA-MW1	3/24/16	0.010 U	0.010 U	**2.53**
SA-MW1	9/30/16	0.010 U	0.010 U	**3.2**
SA-MW2	11/9/12	0.010 U	0.010 U	**0.115**
SA-MW2	11/20/15	0.010 U	0.010 U	**0.107**
SA-MW2	3/29/16	0.010 U	0.010 U	**0.191**
SA-MW2	9/30/16	0.010 U	0.010 U	**0.40**
SA-MW3	11/13/12	0.010 U	0.010 U	0.010 U
SA-MW3	11/19/15	0.010 U	0.010 U	0.010 U
SA-MW3	3/28/16	0.010 U	0.010 U	0.010 U
SA-MW3	9/27/16	0.010 U	0.010 U	0.010 U
MW-Ap	11/18/15	0.010 U	0.010 U	0.010 U
MW-Ap	3/25/16	0.010 U	0.010 U	0.010 U
MW-Ap	10/1/16	-----	-----	-----
MW-Bp	11/18/15	0.010 U	0.010 U	0.010 U
MW-Bp	3/25/16	0.010 U	0.010 U	0.010 U
MW-Bp	10/1/16	-----	-----	-----
MW-Cp	11/18/15	0.010 U	0.010 U	**0.072**
MW-Cp	3/25/16	0.010 U	0.010 U	**0.041**
MW-Cp	10/1/16	0.010 U	0.010 U	**0.043**
MW-Dp	11/18/15	0.010 U	0.010 U	0.025 U
MW-Dp	3/28/16	0.010 U	0.010 U	**0.008**
MW-Dp	10/1/16	0.010 U	0.010 U	0.015 U
MW-Du	11/18/15	0.010 U	0.010 U	**0.007**
MW-Du	3/28/16	0.010 U	0.010 U	**0.004**
MW-Du	10/1/16	0.010 U	0.010 U	0.010 U
MW-Eu	11/19/15	0.010 U	0.010 U	**0.236**
MW-Eu	3/24/16	0.010 U	0.010 U	**0.387**
MW-Eu	9/30/16	0.010 U	0.010 U	**0.21**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Aroclor 1221	Aroclor 1232	total PCBs
		11104-28-2	11141-16-5	
		µg/L	µg/L	µg/L
MW-Fu	11/11/15	0.010 U	0.010 U	0.010 U
MW-Fu	3/23/16	0.010 U	0.010 U	0.010 U
MW-Fu	9/28/16	0.010 U	0.010 U	0.010 U
MW-FL	11/10/15	0.010 U	0.010 U	0.010 U
MW-FL	3/23/16	0.010 U	0.010 U	0.010 U
MW-FL	9/28/16	0.010 U	0.010 U	0.010 U
MW-Gu	11/10/15	0.010 U	0.010 U	0.010 U
MW-Gu	3/23/16	0.010 U	0.010 U	0.010 U
MW-Gu	9/28/16	0.010 U	0.010 U	0.010 U
MW-GL	11/10/15	0.010 U	0.010 U	0.010 U
MW-GL	3/23/16	0.010 U	0.010 U	0.010 U
MW-GL	9/28/16	0.010 U	0.010 U	0.010 U
MW-HL	11/18/15	0.010 U	0.010 U	**0.020**
MW-HL	3/29/16	0.010 U	0.010 U	0.010 U
MW-HL	9/27/16	0.010 U	0.010 U	0.010 U
MW-IL	11/20/15	0.010 U	0.010 U	**0.006**
MW-IL	3/28/16	0.010 U	0.010 U	0.010 U
MW-IL	9/27/16	0.010 U	0.010 U	0.010 U
MW-Ju	11/20/15	0.010 U	0.010 U	**0.289**
MW-Ju	3/28/16	0.010 U	0.010 U	**0.006**
MW-Ju	9/27/16	0.010 U	0.010 U	0.051 U
MW-Ku	11/10/15	0.010 U	0.010 U	0.010 U
MW-Ku	3/22/16	0.010 U	0.010 U	0.010 U
MW-Ku	9/28/16	0.010 U	0.010 U	0.010 U
MW-KL	11/10/15	0.010 U	0.010 U	0.010 U
MW-KL	3/22/16	0.010 U	0.010 U	0.010 U
MW-KL	9/28/16	0.010 U	0.010 U	0.010 U
Seep 1	5/4/07	-	-	**0.5**
Seep 1	7/5/12	0.010 U	0.010 U	0.075 U
Seep 2	5/7/07	-	-	**0.026**
Seep 2	7/5/12	0.010 U	0.010 U	**0.30**

TABLE G.2 - PUSH PROBE and MONITORING WELL GROUNDWATER ANALYTICAL RESULTS 2012-2016 (Main Site)

Location	Date	Aroclor 1221	Aroclor 1232	total PCBs
		11104-28-2	11141-16-5	
		µg/L	µg/L	µg/L
Number of Samples		105	105	107
Number of Detects		0	0	58
Percent Detected		0.0%	0.0%	54.2%
Highest Conc.		<0.01	<0.01	6.91

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081)
SLs - Screening Levels

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Depth (feet)	Field Parameters							Chloride	Sulfate	Antimony	
			pH	Temp.	Conductivity	DO	ORP (1)	Ferrous Fe	Turbidity			7440-36-0	
				C	uS/cm	mg/l	mV	mg/l	NTU	mg/L	mg/L	diss. µg/L	total µg/L
Push-Probes													
ICS-P34-W-10-060915	6/9/2015	10-14	7.9	15.5	524	-----	-----	3.8	78	**59.3**	**27.3**	0.2 U	0.2 U
ICS-P34-W-20-060915	6/9/2015	20-24	7.5	17.3	3070	-----	-----	4.5	33	**1950**	**55.3**	0.5 U	0.5 U
ICS-P35-W-10-060915	6/9/2015	10-14	6.7	19.9	3220	-----	-----	67	6.6	**2120**	**326**	0.5 U	0.5 U
ICS-P35-W-20-060815	6/8/2015	20-24	6.8	16.9	1821	-----	-----	459	9	**2440**	**272**	0.5 U	0.5 U
ICS-P36-W-10-060815	6/8/2015	10-14	6.6	21	3180	-----	-----	115	6.9	**1890**	**0.7**	0.5 U	0.5 U
ICS-P36-W-20-060815	6/8/2015	20-14	6.5	17.5	4080	-----	-----	9.6	127	**1830**	**0.6**	0.5 U	0.5 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
(1) - Referenced to Ag/AgCl electrode
nd - Not detected

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Arsenic		Beryllium		Cadmium		Calcium		Total Chromium		Hexavalent Chromium
		7440-38-2		7440-41-7		7440-43-9		7440-70-2		7440-47-3		
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L
Push-Probes												
ICS-P34-W-10-060915	6/9/2015	**0.3**	**0.9**	0.2 U	0.2 U	0.1 U	0.1 U	-----	**11,100**	**0.8**	**1.8**	Result Rejected Based on QA Review
ICS-P34-W-20-060915	6/9/2015	0.5 U	**0.6**	0.5 U	0.5 U	0.2 U	0.2 U	-----	**46,200**	**3**	**3**	
ICS-P35-W-10-060915	6/9/2015	**0.9**	**1.0**	0.5 U	0.5 U	0.2 U	0.2 U	-----	**160,000**	1 U	1 U	
ICS-P35-W-20-060815	6/8/2015	**2.0**	**10.8**	0.5 U	**0.6**	0.2 U	0.2 U	-----	**148,000**	**6**	**32**	
ICS-P36-W-10-060815	6/8/2015	**1.3**	**2.7**	0.5 U	0.5 U	0.2 U	0.2 U	-----	**264,000**	**2**	**5**	
ICS-P36-W-20-060815	6/8/2015	**0.5**	**3.0**	0.5 U	0.5 U	0.2 U	0.2 U	-----	**176,000**	1 U	**8**	

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
nd - Not detected

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Copper		Lead		Magnesium		Mercury		Nickel		Silver	
		7440-50-8		7439-92-1		7439-95-4		7439-97-6		7440-02-0		7440-22-4	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Push-Probes													
ICS-P34-W-10-060915	6/9/2015	0.5 U	**6.6**	0.1 U	**2.1**	-----	**25,600**	20.0 U	20.0 U	**0.9**	**1.3**	0.2 U	0.2 U
ICS-P34-W-20-060915	6/9/2015	1 U	1 U	0.2 U	**0.4**	-----	**96,100**	20.0 U	20.0 U	**1**	1 U	0.5 U	0.5 U
ICS-P35-W-10-060915	6/9/2015	1 U	1 U	0.2 U	0.2 U	-----	**141,000**	20.0 U	20.0 U	**2**	**2**	0.5 U	0.5 U
ICS-P35-W-20-060815	6/8/2015	**10**	**69**	**1.4**	**8.5**	-----	**308,000**	20.0 U	**64.6**	**11**	**33**	0.5 U	0.5 U
ICS-P36-W-10-060815	6/8/2015	1 U	**9**	0.2 U	**0.8**	-----	**210,000**	20.0 U	20.0 U	**2**	**5**	0.5 U	0.5 U
ICS-P36-W-20-060815	6/8/2015	1 U	**20**	0.2 U	**2.1**	-----	**153,000**	20.0 U	20.0 U	**2**	**8**	0.5 U	0.5 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
nd - Not detected

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Sodium	Zinc		Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane
		7440-23-5	7440-66-6			Gasoline-range	Diesel-range	Lube-range	74-87-3	74-83-9	75-01-4	75-00-3
		total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes												
ICS-P34-W-10-060915	6/9/2015	**97,800**	4 U	**4**	130,000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-P34-W-20-060915	6/9/2015	**1,170,000**	10 U	10 U	510,000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-P35-W-10-060915	6/9/2015	**1,150,000**	10 U	10 U	980,000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-P35-W-20-060815	6/8/2015	**1,170,000**	**30**	**80**	1,600,000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-P36-W-10-060815	6/8/2015	**792,000**	10 U	10 U	1,500,000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-P36-W-20-060815	6/8/2015	**959,000**	10 U	**20**	1,100,000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans* -1,2-Dichloroethene	*cis* -1,2-Dichloroethene	Chloroform	1,2-Dichloro-ethane
		75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3	107-06-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes										
ICS-P34-W-10-060915	6/9/2015	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P34-W-20-060915	6/9/2015	1.0 U	5.0 U	0.20 U	0.20 U	**0.27**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-10-060915	6/9/2015	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-20-060815	6/8/2015	1.0 U	5.0 U	0.20 U	0.20 U	**1.2**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-10-060815	6/8/2015	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-20-060815	6/8/2015	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
MS - Mineral spriits

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	2-Butanone	1,1,1-Tri-chloroethane	Carbon tetrachloride	Bromo-dichloromethane	1,2-Dichloro-propane	*cis* -1,3-Dichloro-propene	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Trichloro-ethane
		78-93-3	71-55-6	56-23-5	75-27-4	78-87-5	10061-01-5	79-01-6	124-48-1	79-00-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes										
ICS-P34-W-10-060915	6/9/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P34-W-20-060915	6/9/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-10-060915	6/9/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-20-060815	6/8/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-10-060815	6/8/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-20-060815	6/8/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Benzene	*trans* -1,3-Dichloropropene	Bromo-form	4-Methyl-2-pentanone	2-Hexanone	Tetrachloro-ethene	1,1,2,2-Tetra-chloroethane	Toluene	Chloro-benzene	Ethyl-benzene	Styrene
		71-43-2	10061-02-6	75-25-2	108-10-1	591-78-6	127-18-4	79-34-5	108-88-3	108-90-7	100-41-4	100-42-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes												
ICS-P34-W-10-060915	6/9/2015	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P34-W-20-060915	6/9/2015	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-10-060915	6/9/2015	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-20-060815	6/8/2015	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-10-060815	6/8/2015	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-20-060815	6/8/2015	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Trichloro-fluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	*m* - & *p* - Xylenes	*o* -Xylene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Acrolein	Bromoethane	1,1-Dichloro-propene
		75-69-4	76-13-1	179601-23-1	95-47-6	95-50-1	541-73-1	106-46-7	107-02-8	74-96-4	563-58-6
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes											
ICS-P34-W-10-060915	6/9/2015	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P34-W-20-060915	6/9/2015	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P35-W-10-060915	6/9/2015	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P35-W-20-060815	6/8/2015	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P36-W-10-060815	6/8/2015	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P36-W-20-060815	6/8/2015	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Dibromo-methane	1,1,1,2-Tetra-chloroethane	1,2,3-Trichloro-propane	*trans* -1,4-Dichloro-2-butene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	Bromochloro methane	2,2-Dichloro-propane	1,3-Dichloro-propane
		74-95-3	630-20-6	96-18-4	110-57-6	108-67-8	95-63-6	106-93-4	74-97-5	294-20-7	142-28-9
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes											
ICS-P34-W-10-060915	6/9/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P34-W-20-060915	6/9/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-10-060915	6/9/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-20-060815	6/8/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-10-060815	6/8/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-20-060815	6/8/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Isopropyl-benzene	n-Propyl-benzene	Bromo-benzene	2-Chloro-toluene	4-Chloro-toluene	*tert*-Butyl-benzene	*sec*-Butyl-benzene	4-Isopropyl-toluene	n-Butyl-benzene	1,2,4-Trichloro benzene
		98-82-8	103-65-1	108-86-1	95-49-8	106-43-4	98-06-6	135-98-8	99-87-6	104-51-8	120-82-1
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes											
ICS-P34-W-10-060915	6/9/2015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
ICS-P34-W-20-060915	6/9/2015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
ICS-P35-W-10-060915	6/9/2015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
ICS-P35-W-20-060815	6/8/2015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
ICS-P36-W-10-060815	6/8/2015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
ICS-P36-W-20-060815	6/8/2015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	1,2,3-Trichloro-benzene	Phenol	2-Chloro-phenol	Benzyl alcohol	2-Methyl-phenol	4-Methyl-phenol	N-Nitroso-di-n-propylamine	Hexachloro-ethane	Nitro-benzene
		87-61-6	108-95-2	95-57-8	100-51-6	95-48-7	106-44-5	621-64-7	67-72-1	98-95-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes										
ICS-P34-W-10-060915	6/9/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
ICS-P34-W-20-060915	6/9/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
ICS-P35-W-10-060915	6/9/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
ICS-P35-W-20-060815	6/8/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
ICS-P36-W-10-060815	6/8/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
ICS-P36-W-20-060815	6/8/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Isophorone	2,4-Dimethyl-phenol	Benzoic acid	2,4-Dichloro-phenol	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro phenol
		78-59-1	105-67-9	65-85-0	120-83-2	91-20-3	59-50-7	91-57-6	88-06-2	95-95-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes										
ICS-P34-W-10-060915	6/9/2015	1.0 U	3.0 U	20 U	3.0 U	**0.05 J**	3.0 U	1.0 U	0.25 U	5.0 U
ICS-P34-W-20-060915	6/9/2015	1.0 U	3.0 U	20 U	3.0 U	**0.06 J**	3.0 U	1.0 U	0.25 U	5.0 U
ICS-P35-W-10-060915	6/9/2015	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
ICS-P35-W-20-060815	6/8/2015	1.0 U	3.0 U	**4.8 J**	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
ICS-P36-W-10-060815	6/8/2015	1.0 U	3.0 U	**5.5 J**	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
ICS-P36-W-20-060815	6/8/2015	1.0 U	3.0 U	20 U	3.0 U	**0.06 J**	3.0 U	1.0 U	0.25 U	5.0 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaph-thylene	Acenaphthene	Dibenzo-furan	2,6-Dinitro-toluene	2,4-Dinitro-toluene	Diethyl-phthalate	4-Chlorophenyl-phenylether
		91-58-7	131-11-3	208-96-8	83-32-9	132-64-9	606-20-2	121-14-2	84-66-2	7005-72-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes										
ICS-P34-W-10-060915	6/9/2015	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
ICS-P34-W-20-060915	6/9/2015	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
ICS-P35-W-10-060915	6/9/2015	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
ICS-P35-W-20-060815	6/8/2015	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
ICS-P36-W-10-060815	6/8/2015	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	**2.2**	1.0 U
ICS-P36-W-20-060815	6/8/2015	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	**4.4**	1.0 U

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Fluorene	N-Nitrosodi-phenylamine	Pentachloro-phenol	Phen-anthrene	Carbazole	Anthracene	Di-n-butyl-phthalate	Fluoranthene	Pyrene
		86-73-7	86-30-6	87-86-5	85-01-8	86-74-8	120-12-7	84-74-2	206-44-0	129-00-0
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes										
ICS-P34-W-10-060915	6/9/2015	0.10 U	1.0 U	**0.34**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
ICS-P34-W-20-060915	6/9/2015	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-P35-W-10-060915	6/9/2015	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-P35-W-20-060815	6/8/2015	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
ICS-P36-W-10-060815	6/8/2015	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
ICS-P36-W-20-060815	6/8/2015	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Butylbenzyl-phthalate	Benzo(a)-anthracene	*bis* (2-Ethylhexyl)-phthalate	Chrysene	Di-n-octyl-phthalate	total Benzo-fluoran-thenes	Benzo(a)-pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
		85-68-7	56-55-3	117-81-7	218-01-9	117-84-0		50-32-8	193-39-5	53-70-3	191-24-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes											
ICS-P34-W-10-060915	6/9/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P34-W-20-060915	6/9/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P35-W-10-060915	6/9/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P35-W-20-060815	6/8/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P36-W-10-060815	6/8/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P36-W-20-060815	6/8/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	LPAH	HPAH	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I
				319-84-6	319-85-7	319-86-8	58-89-9	76-44-8	309-00-2	1024-57-3	959-98-8
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes											
ICS-P34-W-10-060915	6/9/2015	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
ICS-P34-W-20-060915	6/9/2015	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
ICS-P35-W-10-060915	6/9/2015	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
ICS-P35-W-20-060815	6/8/2015	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
ICS-P36-W-10-060815	6/8/2015	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
ICS-P36-W-20-060815	6/8/2015	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Dieldrin	4,4'-DDE	Endrin	Endo-sulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Meth-oxychlor	Endrin ketone	Endrin aldehyde
		60-57-1	72-55-9	72-20-8	33213-65-9	72-54-8	1031-07-8	50-29-3	72-43-5	53494-70-5	7421-93-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes											
ICS-P34-W-10-060915	6/9/2015	0.0050 U	**0.013**	0.0050 U	0.0050 U	**0.010**	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
ICS-P34-W-20-060915	6/9/2015	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
ICS-P35-W-10-060915	6/9/2015	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
ICS-P35-W-20-060815	6/8/2015	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
ICS-P36-W-10-060815	6/8/2015	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U
ICS-P36-W-20-060815	6/8/2015	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U	0.0050 U	0.0050 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

ICS/NWC RI/FS
Seattle, Washington

Location	Date	trans-Chlordane	cis-Chlordane	Toxaphene	Hexachloro-benzene	Hexachloro-butadiene	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		5103-74-2	5103-71-9	8001-35-2	118-74-1	87-68-3	12674-11-2	53469-21-9	12672-29-6	11097-69-1	11096-82-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Push-Probes											
ICS-P34-W-10-060915	6/9/2015	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.010 J**	**0.010 J**	**0.0050 J**
ICS-P34-W-20-060915	6/9/2015	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.14**	**0.18 J_P**	**0.085**
ICS-P35-W-10-060915	6/9/2015	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P35-W-20-060815	6/8/2015	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P36-W-10-060815	6/8/2015	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P36-W-20-060815	6/8/2015	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

TABLE G.3 - OFF-SITE PUSH-PROBE GROUNDWATER ANALTICAL DATA

Location	Date	Aroclor 1221	Aroclor 1232	total PCBs
		11104-28-2	11141-16-5	
		µg/L	µg/L	µg/L
Push-Probes				
ICS-P34-W-10-060915	6/9/2015	0.010 U	0.010 U	**0.025**
ICS-P34-W-20-060915	6/9/2015	0.010 U	0.010 U	**0.41**
ICS-P35-W-10-060915	6/9/2015	0.010 U	0.010 U	0.010 U
ICS-P35-W-20-060815	6/8/2015	0.010 U	0.010 U	0.010 U
ICS-P36-W-10-060815	6/8/2015	0.010 U	0.010 U	0.010 U
ICS-P36-W-20-060815	6/8/2015	0.010 U	0.010 U	0.010 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
- Douglas Property

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Depth (feet)	Field Parameters							Chloride	Sulfate	Antimony	
			pH	Temp.	Conductivity	DO	ORP (1)	Ferrous Fe	Turbidity			7440-36-0	
				C	uS/cm	mg/l	mV	mg/l	NTU	mg/L	mg/L	diss. µg/L	total µg/L
Monitoring Wells													
DMC-MW-A	11/24/2015	20-30	**7.1**	**14**	**2793**	**0.44**	**-103**	**3.8**	**133**	**635**	**8.3**	-----	-----
DMC-MW-A	3/30/2016	20-30	**6.8**	**14.5**	**2961**	**0.4**	**-76.5**	**5**	**58.2**	-----	-----	-----	-----
DMC-MW-A	9/29/2016	20-30	**6.8**	**16**	**3704**	**0**	**2.7**	**7**	**18.7**	-----	-----	-----	-----
DMC-MW-B	11/24/2015	23-33	**7**	**14.4**	**6102**	**0**	**-122**	**2.6**	**22**	**2250**	**14.5**	-----	-----
DMC-MW-B	3/30/2016	23-33	**6.8**	**15**	**6381**	**0**	**-90.1**	**5.8**	**10.1**	-----	-----	-----	-----
DMC-MW-B	9/29/2016	23-33	**6.7**	**16.2**	**6981**	**0**	**17**	**5.2**	**5.7**	-----	-----	-----	-----
DMC-MW-C	11/24/2015	19-29	**7.2**	**13.5**	**11240**	**0**	**-113**	**4.8**	**24.2**	**3900**	**413**	-----	-----
DMC-MW-C	3/30/2016	19-29	**6.9**	**13.7**	**11710**	**0**	**-63.6**	**6.8**	**41.7**	-----	-----	-----	-----
DMC-MW-C	9/29/2016	19-29	**6.7**	**15.3**	**6917**	**0**	**42.5**	**4.8**	**12.3**	-----	-----	-----	-----

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
(1) - Referenced to Ag/AgCl electrode
nd - Not detected

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Arsenic		Beryllium		Cadmium		Calcium		Total Chromium		Hexavalent Chromium
		7440-38-2		7440-41-7		7440-43-9		7440-70-2		7440-47-3		
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L
Monitoring Wells												
DMC-MW-A	11/24/2015	**3.0**	**12.0**	-----	-----	**0.08 J**	**0.8**	-----	**40,200**	**4.4**	**40**	-----
DMC-MW-A	3/30/2016	**2.0**	**8.6**	-----	-----	0.1 U	**0.4**	-----	**39,600**	**3**	**30**	-----
DMC-MW-A	9/29/2016	**2.3**	**2.7**	-----	-----	0.10 U	0.10 U	-----	-----	**2.2**	**3.8**	-----
DMC-MW-B	11/24/2015	**7.3**	**6**	-----	-----	0.5 U	**0.1 J**	-----	**132,000**	**8**	**9**	-----
DMC-MW-B	3/30/2016	**4.5**	**5**	-----	-----	**0.02 J**	**0.2 J**	-----	**130,000**	**4**	**5**	-----
DMC-MW-B	9/29/2016	**4.5**	**5.1**	-----	-----	0.10 U	1.0 U	-----	-----	**6.0**	**7.4**	-----
DMC-MW-C	11/24/2015	**2**	**1**	-----	-----	**0.2 J**	0.5 U	-----	**250,000**	**1.8 J**	**3**	-----
DMC-MW-C	3/30/2016	**1 J**	**2**	-----	-----	0.5 U	0.5 U	-----	**240,000**	**2 J**	**4**	-----
DMC-MW-C	9/29/2016	**0.58**	**0.7 J**	-----	-----	0.10 U	1.0 U	-----	-----	**1.7 J**	**0.83**	-----

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
nd - Not detected

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Copper		Lead		Magnesium		Mercury		Nickel		Silver	
		7440-50-8		7439-92-1		7439-95-4		7439-97-6		7440-02-0		7440-22-4	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Monitoring Wells													
DMC-MW-A	11/24/2015	**2.6**	**41.4**	**19.2**	**306**	-----	**63,900**	**16.5 J**	**187**	**1.4**	**20.2**	**0.02 J**	**0.2 J**
DMC-MW-A	3/30/2016	**0.3 J**	**26**	**0.08 J**	**206**	-----	**66,700**	20 U	**190**	**0.3 J**	**12**	**0.01 J**	**0.1 J**
DMC-MW-A	9/29/2016	0.5 U	**1.6**	0.10 U	**11**	-----	-----	20 U	20 U	**0.28 J**	**1.2 J_B**	0.20 U	0.20 U
DMC-MW-B	11/24/2015	**2**	**4**	**14.4**	**32.8**	-----	**154,000**	**15.3 J**	**32.7**	**1.0**	**2 J**	**0.05 J**	**0.05 J**
DMC-MW-B	3/30/2016	**0.5 J**	**2 J**	**0.1 J**	**12.6**	-----	**148,000**	**7 J**	**14 J**	**0.7 J**	**2 J**	0.4 U	1 U
DMC-MW-B	9/29/2016	0.5 U	5 U	**0.54**	**12**	-----	-----	20 U	**23**	**0.72**	**1.4 J_B**	**0.02 J**	2.0 U
DMC-MW-C	11/24/2015	**2.4 J**	**2 J**	**2.0**	**1.6**	-----	**333,000**	**16.4 J**	**13.6 J**	**1.5 J**	**0.9 J**		1 U
DMC-MW-C	3/30/2016	**1 J**	**3**	**0.2 J**	**2.4**	-----	**319,000**	**5 J**	**27**	**0.3 J**	**1 J**	1 U	**0.05 J**
DMC-MW-C	9/29/2016	0.5 U	5 U	0.10 U	1.0 U	-----	-----	20 U	20 U	**0.21 J**	5.0 U	0.20 U	2.0 U

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
nd - Not detected

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Sodium	Zinc		Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane
		7440-23-5	7440-66-6			Gasoline-range	Diesel-range	Lube-range	74-87-3	74-83-9	75-01-4	75-00-3
		total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells												
DMC-MW-A	11/24/2015	**475,000**	**12**	**188**	360	**0.35**	**0.75**	**1.2**	0.50 U	1.0 U	**0.13 J**	0.20 U
DMC-MW-A	3/30/2016	**473,000**	4 U	**240**	374	**0.26**	**0.76**	**1.1**	**0.14 J_B**	1.0 U	**0.13 J**	0.20 U
DMC-MW-A	9/29/2016	-----	**1 J_B**	**10**	-----	**0.50**	**1.2**	**2.1**	0.50 U	1.0 U	0.20 U	0.20 U
DMC-MW-B	11/24/2015	**1,170,000**	**10**	**30**	960	**0.38**	**0.46**	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DMC-MW-B	3/30/2016	**955,000**	**3 J**	**13 J**	935	**0.50**	0.15	0.20 U	**0.33 J_B**	1.0 U	0.20 U	0.20 U
DMC-MW-B	9/29/2016	-----	**1 J_B**	**10 J**	-----	**0.44**	0.20	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DMC-MW-C	11/24/2015	**2,120,000**	**5.2 J**	**4 J**	2000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DMC-MW-C	3/30/2016	**2,290,000**	**15 J**	**8 J**	1914	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
DMC-MW-C	9/29/2016	-----	**1 J_B**	40 U	-----	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans* -1,2-Dichloroethene	*cis* -1,2-Dichloroethene	Chloroform	1,2-Dichloro-ethane
		75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3	107-06-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells										
DMC-MW-A	11/24/2015	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-A	3/30/2016	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.10 J**	0.20 U	0.20 U
DMC-MW-A	9/29/2016	**0.50 J_B**	5.0 U	**0.08 J_B**	0.20 U	0.20 U	0.20 U	**0.11 J**	0.20 U	0.20 U
DMC-MW-B	11/24/2015	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U
DMC-MW-B	3/30/2016	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	**0.12 J**	0.20 U
DMC-MW-B	9/29/2016	**0.52 J_B**	5.0 U	**0.11 J_B**	0.20 U	0.20 U	0.20 U	**0.10 J**	0.20 U	0.20 U
DMC-MW-C	11/24/2015	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	3/30/2016	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	9/29/2016	**0.63 J_B**	5.0 U	**0.05 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	**0.14 J**	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
MS - Mineral spriits

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	2-Butanone	1,1,1-Tri-chloroethane	Carbon tetrachloride	Bromo-dichloromethane	1,2-Dichloro-propane	*cis* -1,3-Dichloro-propene	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Trichloro-ethane
		78-93-3	71-55-6	56-23-5	75-27-4	78-87-5	10061-01-5	79-01-6	124-48-1	79-00-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells										
DMC-MW-A	11/24/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-A	3/30/2016	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-A	9/29/2016	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-B	11/24/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-B	3/30/2016	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-B	9/29/2016	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	11/24/2015	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	3/30/2016	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	9/29/2016	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Benzene	*trans*-1,3-Dichloropropene	Bromoform	4-Methyl-2-pentanone	2-Hexanone	Tetrachloroethene	1,1,2,2-Tetrachloroethane	Toluene	Chlorobenzene	Ethylbenzene	Styrene
		71-43-2	10061-02-6	75-25-2	108-10-1	591-78-6	127-18-4	79-34-5	108-88-3	108-90-7	100-41-4	100-42-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells												
DMC-MW-A	11/24/2015	**31**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.26**	0.20 U	**0.99**	0.20 U
DMC-MW-A	3/30/2016	**29**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.25**	0.20 U	**0.15 J**	0.20 U
DMC-MW-A	9/29/2016	**36**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.32 J_B**	0.20 U	0.20 U	0.20 U
DMC-MW-B	11/24/2015	**0.27**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.28**	0.20 U	**2.0**	0.20 U
DMC-MW-B	3/30/2016	**0.33**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.58**	0.20 U	**1.6**	0.20 U
DMC-MW-B	9/29/2016	**0.25**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.36 J_B**	0.20 U	**0.85**	0.20 U
DMC-MW-C	11/24/2015	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	3/30/2016	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	9/29/2016	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Trichloro-fluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	*m* - & *p* - Xylenes	*o* -Xylene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Acrolein	Bromoethane	1,1-Dichloro-propene
		75-69-4	76-13-1	179601-23-1	95-47-6	95-50-1	541-73-1	106-46-7	107-02-8	74-96-4	563-58-6
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells											
DMC-MW-A	11/24/2015	0.20 U	0.20 U	**0.84**	**0.83**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DMC-MW-A	3/30/2016	0.20 U	0.20 U	**0.55**	**0.27**	0.20 U	0.20 U	**0.04 J**	5.0 U	0.20 U	0.20 U
DMC-MW-A	9/29/2016	0.20 U	0.20 U	**0.86**	**0.74**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DMC-MW-B	11/24/2015	0.20 U	0.20 U	**2.7**	**0.12 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DMC-MW-B	3/30/2016	0.20 U	0.20 U	**6.1**	**1.7**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DMC-MW-B	9/29/2016	0.20 U	0.20 U	**3.6**	**0.95**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DMC-MW-C	11/24/2015	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DMC-MW-C	3/30/2016	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
DMC-MW-C	9/29/2016	0.20 U	0.20 U	**0.05 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Dibromo-methane	1,1,1,2-Tetra-chloroethane	1,2,3-Trichloro-propane	*trans*-1,4-Dichloro-2-butene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	Bromochloro methane	2,2-Dichloro-propane	1,3-Dichloro-propane
		74-95-3	630-20-6	96-18-4	110-57-6	108-67-8	95-63-6	106-93-4	74-97-5	294-20-7	142-28-9
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells											
DMC-MW-A	11/24/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.82**	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-A	3/30/2016	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.59**	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-A	9/29/2016	0.20 U	0.20 U	0.50 U	1.0 U	**0.05 J**	**0.75**	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-B	11/24/2015	0.20 U	0.20 U	0.50 U	1.0 U	**4.0**	**7.6**	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-B	3/30/2016	0.20 U	0.20 U	0.50 U	1.0 U	**4.8**	**12**	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-B	9/29/2016	0.20 U	0.20 U	0.50 U	1.0 U	**2.3**	**5.2**	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	11/24/2015	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	3/30/2016	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U
DMC-MW-C	9/29/2016	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U

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J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Isopropyl-benzene	n-Propyl-benzene	Bromo-benzene	2-Chloro-toluene	4-Chloro-toluene	*tert* -Butyl-benzene	*sec* -Butyl-benzene	4-Isopropyl-toluene	n-Butyl-benzene	1,2,4-Trichloro benzene
		98-82-8	103-65-1	108-86-1	95-49-8	106-43-4	98-06-6	135-98-8	99-87-6	104-51-8	120-82-1
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells											
DMC-MW-A	11/24/2015	**2.3**	**0.96**	0.20 U	0.20 U	0.20 U	0.20 U	**0.63**	**0.60**	**0.59**	0.50 U
DMC-MW-A	3/30/2016	**1.7**	**0.62**	0.20 U	0.20 U	0.20 U	**0.07 J**	**0.41**	**0.22**	**0.37 J_Q**	0.50 U
DMC-MW-A	9/29/2016	**2.4**	**1.0**	0.20 U	0.20 U	0.20 U	**0.10 J**	**0.66**	**0.65**	**0.55**	0.50 U
DMC-MW-B	11/24/2015	**3.2**	**1.8**	0.20 U	0.20 U	0.20 U	**0.06 J**	**0.69**	**1.1**	**0.63**	0.50 U
DMC-MW-B	3/30/2016	**4.1**	**2.2**	0.20 U	0.20 U	0.20 U	**0.10 J**	**0.80**	**1.3**	**0.74 J_Q**	0.50 U
DMC-MW-B	9/29/2016	**2.1**	**1.2**	0.20 U	0.20 U	0.20 U	**0.06 J**	**0.57**	**1.0**	**0.51**	0.50 U
DMC-MW-C	11/24/2015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DMC-MW-C	3/30/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U
DMC-MW-C	9/29/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U

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----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	1,2,3-Trichloro-benzene	Phenol	2-Chloro-phenol	Benzyl alcohol	2-Methyl-phenol	4-Methyl-phenol	N-Nitroso-di-n-propylamine	Hexachloro-ethane	Nitro-benzene
		87-61-6	108-95-2	95-57-8	100-51-6	95-48-7	106-44-5	621-64-7	67-72-1	98-95-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells										
DMC-MW-A	11/24/2015	0.50 U	**1.6**	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DMC-MW-A	3/30/2016	0.50 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DMC-MW-A	9/29/2016	0.50 U	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DMC-MW-B	11/24/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DMC-MW-B	3/30/2016	0.50 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
DMC-MW-B	9/29/2016	0.50 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
DMC-MW-C	11/24/2015	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U
DMC-MW-C	3/30/2016	0.50 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
DMC-MW-C	9/29/2016	0.50 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

Notes: *U = Nondetected at the associated lower reporting limit.*
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J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Isophorone	2,4-Dimethyl-phenol	Benzoic acid	2,4-Dichloro-phenol	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro phenol
		78-59-1	105-67-9	65-85-0	120-83-2	91-20-3	59-50-7	91-57-6	88-06-2	95-95-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells										
DMC-MW-A	11/24/2015	1.0 U	3.0 U	20 U	3.0 U	**4.1**	3.0 U	**5.1**	0.25 U	5.0 U
DMC-MW-A	3/30/2016	0.2 U	1.0 U	2.0 U	1.0 U	**3.7**	1.0 U	**0.8**	1.0 U	1.0 U
DMC-MW-A	9/29/2016	0.2 U	1.0 U	2.0 U	1.0 U	**19**	1.0 U	**14**	1.0 U	1.0 U
DMC-MW-B	11/24/2015	1.0 U	3.0 U	20 U	3.0 U	**4.1**	3.0 U	**7.8**	0.25 U	5.0 U
DMC-MW-B	3/30/2016	0.2 U	1.0 U	2.0 U	1.0 U	**3.5**	1.0 U	**6.4**	1.0 U	1.0 U
DMC-MW-B	9/29/2016	0.2 U	1.0 U	2.0 U	1.0 U	**0.5**	1.0 U	**1.3**	1.0 U	1.0 U
DMC-MW-C	11/24/2015	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
DMC-MW-C	3/30/2016	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U
DMC-MW-C	9/29/2016	0.2 U	1.0 U	**0.2 J_B**	1.0 U	**0.014 J_B**	1.0 U	0.2 U	1.0 U	1.0 U

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J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaph-thylene	Acenaphthene	Dibenzo-furan	2,6-Dinitro-toluene	2,4-Dinitro-toluene	Diethyl-phthalate	4-Chlorophenyl-phenylether
		91-58-7	131-11-3	208-96-8	83-32-9	132-64-9	606-20-2	121-14-2	84-66-2	7005-72-3
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells										
DMC-MW-A	11/24/2015	1.0 U	1.0 U	**0.23**	**4.0**	**0.49**	3.0 U	3.0 U	1.0 U	1.0 U
DMC-MW-A	3/30/2016	0.2 U	0.2 U	**0.1 J**	**3.9**	**0.4**	1.0 U	1.0 U	0.2 U	0.2 U
DMC-MW-A	9/29/2016	0.2 U	0.2 U	**0.11**	**5.9**	**0.6**	1.0 U	1.0 U	0.2 U	0.2 U
DMC-MW-B	11/24/2015	1.0 U	1.0 U	**0.05 J**	**3.0**	**0.16**	3.0 U	3.0 U	1.0 U	1.0 U
DMC-MW-B	3/30/2016	0.2 U	0.2 U	0.01 U	**1.3**	**0.10**	1.0 U	1.0 U	**0.1 J**	0.2 U
DMC-MW-B	9/29/2016	0.2 U	0.2 U	**0.043**	**4.0**	**0.081**	1.0 U	1.0 U	0.2 U	0.2 U
DMC-MW-C	11/24/2015	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U
DMC-MW-C	3/30/2016	0.2 U	0.2 U	0.01 U	0.01 U	0.01 U	1.0 U	1.0 U	**0.1 J**	0.2 U
DMC-MW-C	9/29/2016	0.2 U	0.2 U	0.010 U	**0.007 J**	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U

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J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Fluorene	N-Nitrosodi-phenylamine	Pentachloro-phenol	Phen-anthrene	Carbazole	Anthracene	Di-n-butyl-phthalate	Fluoranthene	Pyrene
		86-73-7	86-30-6	87-86-5	85-01-8	86-74-8	120-12-7	84-74-2	206-44-0	129-00-0
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells										
DMC-MW-A	11/24/2015	**1.1**	**1.2**	0.25 U	**1.1**	**1.0**	**0.59**	1.0 U	**0.33**	**0.38**
DMC-MW-A	3/30/2016	**1.0**	0.2 U	0.025 U	**0.9**	**0.7 J_Q**	**0.4**	0.2 U	**0.4**	**0.6**
DMC-MW-A	9/29/2016	**1.3**	0.2 U	0.025 U	**1.3**	**1.5 J_Q**	**0.4**	0.2 U	**0.13**	**0.21**
DMC-MW-B	11/24/2015	**1.0**	1.0 U	0.25 U	**0.30**	**1.0**	0.10 U	1.0 U	**0.08 J**	0.10 U
DMC-MW-B	3/30/2016	**0.6**	0.2 U	0.025 U	**0.12**	**0.7 J_Q**	**0.016**	0.2 U	**0.027**	**0.023**
DMC-MW-B	9/29/2016	**0.8**	0.2 U	0.025 U	**0.076**	**1.2 J_Q**	**0.011**	0.2 U	**0.031**	**0.028**
DMC-MW-C	11/24/2015	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U
DMC-MW-C	3/30/2016	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	**0.012**	**0.015**
DMC-MW-C	9/29/2016	**0.006 J**	0.2 U	0.025 U	**0.005 J**	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U

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J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Butylbenzyl-phthalate	Benzo(a)-anthracene	*bis* (2-Ethylhexyl)-phthalate	Chrysene	Di-n-octyl-phthalate	total Benzo-fluoran-thenes	Benzo(a)-pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
		85-68-7	56-55-3	117-81-7	218-01-9	117-84-0		50-32-8	193-39-5	53-70-3	191-24-2
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells											
DMC-MW-A	11/24/2015	1.0 U	**0.08 J**	**4.0**	**0.10 J**	1.0 U	**0.04 J**	**0.07 J**	0.10 U	0.10 U	0.10 U
DMC-MW-A	3/30/2016	0.2 U	**0.088**	**1.4**	**0.2**	0.2 U	**0.2 J**	**0.060**	**0.022 J**	0.05 U	**0.037 J**
DMC-MW-A	9/29/2016	0.2 U	**0.031**	**0.2**	**0.051**	0.2 U	**0.029**	**0.019**	**0.008 J**	0.010 U	**0.013**
DMC-MW-B	11/24/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DMC-MW-B	3/30/2016	0.2 U	0.01 U	**0.2**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DMC-MW-B	9/29/2016	0.2 U	**0.004 J**	**0.3**	**0.006 J**	0.2 U	**0.005 J**	0.010 U	0.010 U	0.010 U	0.010 U
DMC-MW-C	11/24/2015	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
DMC-MW-C	3/30/2016	0.2 U	0.01 U	**0.3**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U
DMC-MW-C	9/29/2016	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

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J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	LPAH	HPAH	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I
				319-84-6	319-85-7	319-86-8	58-89-9	76-44-8	309-00-2	1024-57-3	959-98-8
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells											
DMC-MW-A	11/24/2015	11.1	1.0	0.0038 U	0.0036 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U
DMC-MW-A	3/30/2016	10	1.6	0.0058 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U
DMC-MW-A	9/29/2016	28	0.48	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
DMC-MW-B	11/24/2015	8.45	0.10 U	0.0019 U	0.0023 U	0.00062 U	0.00062 U	0.00064 U	0.00062 U	0.00062 U	0.00062 U
DMC-MW-B	3/30/2016	5.5	0.05	0.0048 U	0.0088 U	0.00062 U	0.00062 U	0.0019 U	0.00062 U	0.00062 U	0.00062 U
DMC-MW-B	9/29/2016	5.4	0.074	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
DMC-MW-C	11/24/2015	0.10 U	0.10 U	0.0022 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0015 U	0.0012 U
DMC-MW-C	3/30/2016	0.01 U	0.027	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U
DMC-MW-C	9/29/2016	0.032	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Dieldrin	4,4'-DDE	Endrin	Endo-sulfan II	4,4'-DDD	Endosulfan sulfate	4,4'-DDT	Meth-oxychlor	Endrin ketone	Endrin aldehyde
		60-57-1	72-55-9	72-20-8	33213-65-9	72-54-8	1031-07-8	50-29-3	72-43-5	53494-70-5	7421-93-4
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells											
DMC-MW-A	11/24/2015	0.0062 U	**0.039**	0.0062 U	0.0076 U	**0.14**	0.0062 U	0.0076 U	0.031 U	0.0062 U	0.0062 U
DMC-MW-A	3/30/2016	0.0062 U	**0.030**	0.0062 U	0.0062 U	**0.11 J_P**	0.0062 U	0.0062 U	0.031 U	0.0062 U	0.0062 U
DMC-MW-A	9/29/2016	0.0013 U	**0.016**	0.0013 U	0.0013 U	**0.064**	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
DMC-MW-B	11/24/2015	0.0016 U	**0.0031**	0.0012 U	0.0012 U	**0.0077 J_P**	0.0012 U	0.0017 U	0.0062 U	0.0012 U	0.0012 U
DMC-MW-B	3/30/2016	0.0066 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DMC-MW-B	9/29/2016	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
DMC-MW-C	11/24/2015	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.0025 U	0.0025 U
DMC-MW-C	3/30/2016	0.0012 U	0.0012 U	0.0012 U	0.0023 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
DMC-MW-C	9/29/2016	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	trans-Chlordane	cis-Chlordane	Toxaphene	Hexachloro-benzene	Hexachloro-butadiene	Aroclor 1016	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		5103-74-2	5103-71-9	8001-35-2	118-74-1	87-68-3	12674-11-2	53469-21-9	12672-29-6	11097-69-1	11096-82-5
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Monitoring Wells											
DMC-MW-A	11/24/2015	0.0031 U	0.0031 U	0.32 U	0.0062 U	0.0062 U	0.010 U	0.010 U	**0.18**	**0.29**	**0.14**
DMC-MW-A	3/30/2016	0.0031 U	0.0031 U	0.32 U	0.0062 U	0.0062 U	0.010 U	0.010 U	**0.083**	**0.14**	**0.067**
DMC-MW-A	9/29/2016	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.015 U	**0.035 J_P**	**0.036 J_P**
DMC-MW-B	11/24/2015	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	**0.020**	**0.020**	**0.009 J**
DMC-MW-B	3/30/2016	0.00062 U	0.00062 U	0.063 U	**0.0021**	0.0012 U	0.010 U	0.010 U	0.010 U	**0.018**	**0.008 J**
DMC-MW-B	9/29/2016	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	**0.013**	**0.007 J**
DMC-MW-C	11/24/2015	0.0012 U	0.019 U	0.13 U	0.0025 U	0.0025 U	0.010 U	0.010 U	**0.012**	**0.019 J_P**	0.010 U
DMC-MW-C	3/30/2016	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.012 U	**0.016**	**0.005 J**
DMC-MW-C	9/29/2016	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

TABLE G-4 - MONITORING WELL GROUNDWATER ANALYTICAL RESULTS - Douglas Property

Location	Date	Aroclor 1221	Aroclor 1232	total PCBs
		11104-28-2	11141-16-5	
		µg/L	µg/L	µg/L
Monitoring Wells				
DMC-MW-A	11/24/2015	0.010 U	0.010 U	**0.61**
DMC-MW-A	3/30/2016	0.010 U	0.010 U	**0.29**
DMC-MW-A	9/29/2016	0.010 U	0.010 U	**0.071**
DMC-MW-B	11/24/2015	0.010 U	0.010 U	**0.049**
DMC-MW-B	3/30/2016	0.010 U	0.010 U	**0.026**
DMC-MW-B	9/29/2016	0.010 U	0.010 U	**0.020**
DMC-MW-C	11/24/2015	0.010 U	0.010 U	**0.031**
DMC-MW-C	3/30/2016	0.010 U	0.010 U	**0.021**
DMC-MW-C	9/29/2016	0.010 U	0.010 U	0.010 U

Notes: *U = Nondetected at the associated lower reporting limit.*
J = Estimate associated with value less than the verifiable lower quantitation limit.
J_B = Estimate; associated value may be biased high due to contribution from laboratory background or method blank
J_Q = Estimate; due to noncompliant CCV check.
----- = Not analyzed
Jp = Estimated value due to high variability exhibited between duel column responses on GC/ECD (M.8081B)

Table G-4

RI Groundwater Analytical Data - TPH and VOCs Results

7100 1st Avenue South Site

Seattle, Washington

Parameter	Screening Level	Unit	DP-10 7/8/2013	DP-11 7/8/2013	SP-1 7/18/2008	SP-1 9/4/2013	SP-1 3/20/2014	SP-1 7/14/2014	SEEP-1 5/4/2007	SEEP-1 9/3/2013	SEEP-1 3/20/2014	SEEP-1 7/14/2014	MW-1 11/1/1990	MW-1 9/5/1991	MW-1 1/10/1992
Total Petroleum Hydrocarbons (TPH)															
TPH[1]	500	µg/L	–	–	–	–	–	–	–	–	–	–	**590**	10000 U	2000 U
Gasoline-range hydrocarbons	800	µg/L	**4900**	**1000**	–	250 U	250 U	250 U	–	250 U	250 U	250 U	–	–	–
Diesel-range hydrocarbons	500	µg/L	**1900**	**990**	–	100 U	100 U	100 U	–	**970**	**600**	**210**	–	–	–
Lube Oil-range Hydrocarbons	500	µg/L	**390**	**410**	–	200 U	200 U	200 U	–	**1700**	**360**	**230**	–	–	–
Volatile Organic Compounds (VOCs)															
1,1,2-Trichloroethane	8.9	µg/L	**3.4**	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
1,2,4-Trimethylbenzene	NE	µg/L	**3.6**	**0.29**	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
1,2-Dichloroethane	99	µg/L	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
1,3,5-Trimethylbenzene	NE	µg/L	**2.1**	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
2-Butanone (MEK)	NE	µg/L	5.0 U	5.0 U	20 U*	5.0 U	5.0 U	5.0 U	–	5.0 U	5.0 U	5.0 U	–	–	–
2-Hexanone	NE	ug/L	5.0 U	5.0 U	20 U*	5.0 U	5.0 U	5.0 U	–	5.0 U	5.0 U	5.0 U	–	–	–
Acetone	NE	µg/L	5.0 U	5.0 U	20 U*	**2.9 NJ**	5.0 U	5.0 U	–	5.8 U	**2.3 J**	**2.7 J**	–	–	–
Benzene	58	µg/L	**360**	**1.4**	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	1.0 U*	1.0 U*	1.0 U*
Bromomethane	967.9	ug/L	1.0 U	1.0 U	0.5 U*	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	–	–
Carbon Disulfide	NE	µg/L	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Chloroform	150	µg/L	0.20 U	0.20 U	**1.7 ***	0.20 U	**0.12 J**	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Chloromethane	NE	µg/L	0.50 U	0.50 U	0.5 U*	0.50 U	0.50 U	**0.33 J**	–	0.50 U	0.50 U	0.50 U	–	–	–
cis-1,2-Dichloroethene	NE	µg/L	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Dichlorodifluoromethane (CFC-12)	NE	ug/L	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Ethylbenzene	130	µg/L	**97**	**0.22**	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	1.0 U*	1.0 U*	1.0 U*
Isopropylbenzene (Cumene)	NE	µg/L	**33**	**2.2**	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Methyl Iodide (Iodomethane)	NE	ug/L	**1.0 U**	**1.0 U**	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	–	–
Methylene Chloride	590	ug/L	**1.0 U**	**1.0 U**	2 U*	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	–	–
n-Butylbenzene	NE	µg/L	**13**	**12**	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
n-Propylbenzene	NE	µg/L	**110**	**8.1**	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
p-Isopropyltoluene	NE	µg/L	**0.72**	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Sec-Butylbenzene	NE	µg/L	**5.4**	**3.1**	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Tert-Butylbenzene	NE	µg/L	**0.22**	**0.25**	2 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Tetrachloroethene	3.3	ug/L	**0.20 U**	**0.20 U**	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Toluene	520	µg/L	**9.2**	**0.96**	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	1.0 U*	1.0 U*	1.0 U*
Trichloroethene	12.7	ug/L	**0.20 U**	**0.20 U**	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	–	–	–
Xylene, m-,p-	NE	µg/L	**29**	**2.1**	0.5 U*	0.40 U	0.40 U	0.40 U	–	0.40 U	0.40 U	0.40 U	1.0 U*	–	–
Xylene, o-	NE	µg/L	**1.8**	**0.34**	0.5 U*	0.20 U	0.20 U	0.20 U	–	0.20 U	0.20 U	0.20 U	1.0 U*	–	–

Parameter	Screening Level	Unit	MW-1 4/9/1992	MW-1 8/16/1992	MW-1 7/16/2008	MW-1 8/15/2013	MW-1 12/16/2013	MW-1 3/19/2014	MW-1 7/15/2014	MW-2 11/1/1990	MW-2 9/5/1991	MW-2 1/10/1992	MW-2 4/9/1992	MW-2 8/16/1992	MW-2R 8/20/2013
TPH															
TPH[1]	500	µg/L	–	–	–	–	–	–	–	**560**	–	2000 U	–	–	–
Gasoline-range hydrocarbons	800	µg/L	250 U*	250 U*	–	250 U	250 U	250 U	250 U	–	–	–	**140 J***	250 U*	**320**
Diesel-range hydrocarbons	500	µg/L	250 U*	250 U*	250 U*	**270**	**260**	**360**	**270**	–	–	–	**580 ***	250 U*	**570**
Lube Oil-range Hydrocarbons	500	µg/L	–	–	500 U*	**220**	**240**	**320**	200 U	–	–	–	–	–	**500**
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
1,2,4-Trimethylbenzene	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	**0.42**
1,2-Dichloroethane	99	µg/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
1,3,5-Trimethylbenzene	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
2-Butanone (MEK)	NE	µg/L	–	–	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	–	–	–	–	–	5.0 U
2-Hexanone	NE	ug/L	–	–	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	–	–	–	–	–	5.0 U
Acetone	NE	µg/L	–	–	20 U*	5.0 U	**5.3**	5.0 U	**2.7 J**	–	–	–	–	–	**5.2**
Benzene	58	µg/L	1.0 U*	1.0 U*	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U*	**88 ***	**110 ***	**65 ***	1.0 U*	**66**
Bromomethane	967.9	ug/L	–	–	0.5 U*	1.0 U	1.0 U	1.0 U	1.0 U	–	–	–	–	–	1.0 U
Carbon Disulfide	NE	µg/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Chloroform	150	µg/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Chloromethane	NE	µg/L	–	–	0.5 U*	0.50 U	0.50 U	0.50 U	0.50 UJ	–	–	–	–	–	0.50 U
cis-1,2-Dichloroethene	NE	µg/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Dichlorodifluoromethane (CFC-12)	NE	ug/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Ethylbenzene	130	µg/L	1.0 U*	1.0 U*	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U*	1.0 U*	1.0 U*	1.0 U*	1.0 U*	0.20 U
Isopropylbenzene (Cumene)	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	**1.7**
Methyl Iodide (Iodomethane)	NE	ug/L	–	–	–	1.0 U	1.0 U	1.0 U	1.0 U	–	–	–	–	–	1.0 U
Methylene Chloride	590	ug/L	–	–	2 U*	1.0 U	1.0 U	1.0 U	1.0 U	–	–	–	–	–	1.0 U
n-Butylbenzene	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
n-Propylbenzene	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	**1.1**
p-Isopropyltoluene	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Sec-Butylbenzene	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Tert-Butylbenzene	NE	µg/L	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Tetrachloroethene	3.3	ug/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	0.20 U
Toluene	520	µg/L	1.0 U*	1.0 U*	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U*	1.0 U*	1.0 U*	1.0 U*	1.0 U*	**2.2**
Trichloroethene	12.7	ug/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–	**0.20 U**
Xylene, m-,p-	NE	µg/L	–	–	0.5 U*	0.40 U	0.40 U	0.40 U	0.40 U	1.0 U*	–	–	–	–	**7.8**
Xylene, o-	NE	µg/L	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U*	–	–	–	–	**2.0**

Parameter	Screening Level	Unit	MW-2R 12/20/2013	MW-2R 3/18/2014	MW-2R 7/17/2014	MW-3 11/1/1990	MW-3 12/18/1990	MW-3 9/5/1991	MW-3 1/10/1992	MW-3 4/9/1992	MW-3 8/16/1992	MW-3 7/16/2008	MW-3 8/16/2013	MW-3 12/16/2013	MW-3 3/19/2014
TPH															
TPH[1]	500	µg/L	–	–	–	**330**	–	10000 U	2000 U	–	–	–	–	–	–
Gasoline-range hydrocarbons	800	µg/L	**390**	**750**	**680**	–	–	–	–	**720 ***	**310 ***	–	250 U	**360**	**290**
Diesel-range hydrocarbons	500	µg/L	**780**	**500**	**570**	–	–	–	–	250 U*	**300 ***	–	**320**	**310**	**350**
Lube Oil-range Hydrocarbons	500	µg/L	**980**	**200**	**320**	–	–	–	–	–	–	–	200 U	200 U	200 U
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	NE	µg/L	**0.64**	**1.2**	**0.92**	–	–	–	–	–	–	2 U*	0.20 U	**0.38**	**0.25**
1,2-Dichloroethane	99	µg/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	**2.5 ***	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene	NE	µg/L	0.20 U	**0.79**	**0.62**	–	–	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U
2-Butanone (MEK)	NE	µg/L	5.0 U	5.0 U	5.0 U	–	–	–	–	–	–	20 U*	5.0 U	**9.8**	5.0 U
2-Hexanone	NE	ug/L	5.0 U	5.0 U	5.0 U	–	–	–	–	–	–	20 U*	5.0 U	**5.0 U**	5.0 U
Acetone	NE	µg/L	**3.9 J**	5.0 U	**4.8 J**	–	–	–	–	–	–	20 U*	**8.5**	**9.8**	**6.6**
Benzene	58	µg/L	**65**	**7.4**	**18**	1.0 U*	**420.0 ***	**670 ***	**500 ***	**620 ***	**910 ***	**89 J***	**7.9**	**10**	**7.1**
Bromomethane	967.9	ug/L	1.0 U	1.0 U	1.0 U	–	–	–	–	–	–	0.5 U*	1.0 U	**1.0 U**	1.0 U
Carbon Disulfide	NE	µg/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	0.5 U*	0.20 U	**0.12 J**	0.20 U
Chloroform	150	µg/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U
Chloromethane	NE	µg/L	0.50 U	0.50 U	**0.28 J**	–	–	–	–	–	–	0.5 U*	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	NE	µg/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U
Dichlorodifluoromethane (CFC-12)	NE	ug/L	0.20 U	–	0.20 U	–	–	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U
Ethylbenzene	130	µg/L	**0.15 J**	0.20 U	**0.14 J**	**1.1 ***	**13.0 ***	**16 ***	**14 ***	**9.1 ***	**9.4 ***	0.5 U*	0.20 U	**0.34**	**0.12 J**
Isopropylbenzene (Cumene)	NE	µg/L	**2.3**	**7.0**	**6.0**	–	–	–	–	–	–	2 U*	0.20 U	**1.2**	**0.46**
Methyl Iodide (Iodomethane)	NE	ug/L	1.0 U	1.0 U	1.0 U	–	–	–	–	–	–	–	1.0 U	1.0 U	1.0 U
Methylene Chloride	590	ug/L	1.0 U	1.0 U	1.0 U	–	–	–	–	–	–	2 U*	1.0 U	1.0 U	1.0 U
n-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U
n-Propylbenzene	NE	µg/L	**1.6**	**6.6**	**6.6**	–	–	–	–	–	–	2 U*	**0.38**	**3.0**	**1.0**
p-Isopropyltoluene	NE	µg/L	**0.08 J**	0.20 U	**0.17 J**	–	–	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U
Sec-Butylbenzene	NE	µg/L	**0.03 J**	0.20 U	0.20 U	–	–	–	–	–	–	2 U*	0.20 U	**0.22**	0.20 U
Tert-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U
Tetrachloroethene	3.3	ug/L	0.20 U	0.20 U	0.20 U	–	–	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U
Toluene	520	µg/L	**2.9**	**4.4**	**3.5**	1.0 U*	**3.5 ***	**3.2 ***	**3.8 ***	**3.0 ***	**3.2 ***	**0.89 ***	**0.49**	**1.1**	**0.69**
Trichloroethene	12.7	ug/L	**0.20 U**	**0.20 U**	**0.20 U**	–	–	–	–	–	–	**0.5 U***	**0.20 U**	**0.20 U**	**0.20 U**
Xylene, m-,p-	NE	µg/L	**11**	**23**	**16**	**5.3 ***	**45.0 ***	–	–	–	–	**1.9 ***	**1.1**	**5.4**	**2.8**
Xylene, o-	NE	µg/L	**2.8**	**3.7**	**2.6**	1.0 U*	**3.4 ***	–	–	–	–	**0.78 ***	**0.48**	**1.0**	**0.75**

Parameter	Screening Level	Unit	MW-3 7/16/2014	MW-4 11/1/1990	MW-4 12/18/1990	MW-4 9/5/1991	MW-4 1/10/1992	MW-4 4/9/1992	MW-4 8/16/1992	MW-4 7/16/2008	MW-4 8/16/2013	MW-4 12/16/2013	MW-4 3/17/2014	MW-4 7/16/2014	MW-5 12/18/1990
TPH															
TPH[1]	500	µg/L	–	**270**	–	10000 U	2000 U	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	800	µg/L	250 U	–	–	–	–	**150 J***	**220 J***	**350 J***	**23000**	**5100**	**9500**	**7500**	–
Diesel-range hydrocarbons	500	µg/L	**340**	–	–	–	–	250 U*	250 U*	**730 J***	**2700**	**2000**	**2700**	**2500**	–
Lube Oil-range Hydrocarbons	500	µg/L	200 U	–	–	–	–	–	–	520 U*	**350**	**410**	**440**	**500**	–
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	0.20 U	–	–	–	–	–	–	0.5 U*	3.0 U	0.20 U	0.20 U	1.0 U	–
1,2,4-Trimethylbenzene	NE	µg/L	**0.21**	–	–	–	–	–	–	2 U*	**64**	**18**	**41**	**23**	–
1,2-Dichloroethane	99	µg/L	0.20 U	–	–	–	–	–	–	**2.9 ***	3.0 U	0.20 U	0.20 U	1.0 U	–
1,3,5-Trimethylbenzene	NE	µg/L	**0.11 J**	–	–	–	–	–	–	**2.3 ***	**71**	**32**	**55**	**39**	–
2-Butanone (MEK)	NE	µg/L	5.0 U	–	–	–	–	–	–	20 U*	75 U	5.0 U	5.0 U	**18 J**	–
2-Hexanone	NE	ug/L	5.0 U	–	–	–	–	–	–	20 U*	75 U	5.0 U	5.0 U	25 U	–
Acetone	NE	µg/L	3.2 U	–	–	–	–	–	–	20 U*	75 U	**4.8 J**	**5.4**	25 U	–
Benzene	58	µg/L	**3.4**	**4200 ***	**3600 ***	**2000 ***	**2700 ***	**1800 ***	**3400 ***	**100 J***	**29**	**15**	**37**	**29**	5.0 U*
Bromomethane	967.9	ug/L	1.0 U	–	–	–	–	–	–	0.5 U*	15 U	1.0 U	1.0 U	5.0 U	–
Carbon Disulfide	NE	µg/L	0.20 U	–	–	–	–	–	–	0.5 U*	3.0 U	0.20 U	0.20 U	1.0 U	–
Chloroform	150	µg/L	0.20 U	–	–	–	–	–	–	0.5 U*	3.0 U	0.20 U	0.20 U	1.0 U	–
Chloromethane	NE	µg/L	**0.33 J**	–	–	–	–	–	–	0.5 U*	7.5 U	0.50 U	0.50 UJ	2.5 U	–
cis-1,2-Dichloroethene	NE	µg/L	0.20 U	–	–	–	–	–	–	0.5 U*	3.0 U	0.20 U	0.20 U	1.0 U	–
Dichlorodifluoromethane (CFC-12)	NE	ug/L	0.20 U	–	–	–	–	–	–	0.5 U*	3.0 U	0.20 U	0.20 UJ	1.0 U	–
Ethylbenzene	130	µg/L	0.20 U	**2.1 ***	50 U*	1.0 U*	**4.1 ***	1.0 U*	**4.6 ***	**0.89 ***	**270**	**52**	**41**	**17**	5.0 U*
Isopropylbenzene (Cumene)	NE	µg/L	**0.14 J**	–	–	–	–	–	–	2 U*	**31**	**7.7**	**6.3**	**4.2**	–
Methyl Iodide (Iodomethane)	NE	ug/L	1.0 U	–	–	–	–	–	–	–	**15 U**	1.0 U	1.0 U	5.0 U	–
Methylene Chloride	590	ug/L	1.0 U	–	–	–	–	–	–	2 U*	**15 U**	1.0 U	1.0 U	5.0 U	–
n-Butylbenzene	NE	µg/L	0.20 U	–	–	–	–	–	–	**3.5 ***	**41**	**5.0**	0.20 U	**12**	–
n-Propylbenzene	NE	µg/L	**0.18 J**	–	–	–	–	–	–	2 U*	**100**	**17**	**13**	**8.1**	–
p-Isopropyltoluene	NE	µg/L	0.20 U	–	–	–	–	–	–	2 U*	**9.4**	**2.9**	**4.3**	**3.4**	–
Sec-Butylbenzene	NE	µg/L	0.20 U	–	–	–	–	–	–	2 U*	**13**	**2.6**	**2.5**	**1.6**	–
Tert-Butylbenzene	NE	µg/L	0.20 U	–	–	–	–	–	–	2 U*	3.0 U	**0.18 J**	**0.18 J**	1.0 U	–
Tetrachloroethene	3.3	ug/L	0.20 U	–	–	–	–	–	–	0.5 U*	3.0 U	0.20 U	0.20 U	1.0 U	–
Toluene	520	µg/L	**0.45**	**8.3 ***	50 U*	**12 ***	**11 ***	**6.2 ***	**12 ***	**3.9 ***	**3.6**	**1.6**	**2.6**	**2.9**	5.0 U*
Trichloroethene	12.7	ug/L	**0.20 U**	–	–	–	–	–	–	**0.5 U***	**3.0 U**	**0.20 U**	**0.20 U**	**1.0 U**	–
Xylene, m-,p-	NE	µg/L	**1.1**	1.0 U*	**63 ***	–	–	–	–	**15 ***	**37**	**16**	**25**	**15**	5.0 U*
Xylene, o-	NE	µg/L	**0.60**	**4.2 ***	50 U*	–	–	–	–	**1.6 ***	**3.1**	**2.0**	**3.0**	**1.8**	5.0 U*

Parameter	Screening Level	Unit	MW-5 1/10/1992	MW-5 4/9/1992	MW-5 8/16/1992	MW-5 7/17/2008	MW-5 8/15/2013	MW-5 12/26/2013	MW-5 3/17/2014	MW-5 7/17/2014	MW-6 12/18/1990	MW-6 1/10/1992	MW-6 4/9/1992	MW-6 8/16/1992	MW-7 12/18/1990
TPH															
TPH[1]	500	µg/L	2000 U	–	–	–	–	–	–	–	–	2000 U	–	–	–
Gasoline-range hydrocarbons	800	µg/L	–	250 U*	250 U*	–	250 U	250 U	250 U	250 U	–	–	250 U*	250 U*	–
Diesel-range hydrocarbons	500	µg/L	–	250 U*	**280 ***	**750 J***	**240**	**200**	**350**	**320**	–	–	**4200 ***	**1100 ***	–
Lube Oil-range Hydrocarbons	500	µg/L	–	–	–	500 U*	200 U	200 U	**240**	**220**	–	–	–	–	–
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
1,2,4-Trimethylbenzene	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
1,2-Dichloroethane	99	µg/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
1,3,5-Trimethylbenzene	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
2-Butanone (MEK)	NE	µg/L	–	–	–	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	–	–	–	–	–
2-Hexanone	NE	ug/L	–	–	–	20 U*	5.0 U	5.0 UJ	5.0 U	5.0 U	–	–	–	–	–
Acetone	NE	µg/L	–	–	–	20 U*	5.0 U	3.5 U	5.0 U	**3.9 J**	–	–	–	–	–
Benzene	58	µg/L	1.0 U*	1.0 U*	1.0 U*	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U*	1.0 U*	1.0 U*	1.0 U*	5.0 U*
Bromomethane	967.9	ug/L	–	–	–	0.5 U*	1.0 U	1.0 U	1.0 U	1.0 U	–	–	–	–	–
Carbon Disulfide	NE	µg/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Chloroform	150	µg/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Chloromethane	NE	µg/L	–	–	–	0.5 U*	0.50 U	0.50 U	0.50 UJ	0.50 U	–	–	–	–	–
cis-1,2-Dichloroethene	NE	µg/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Dichlorodifluoromethane (CFC-12)	NE	ug/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 UJ	0.20 U	–	–	–	–	–
Ethylbenzene	130	µg/L	1.0 U*	1.0 U*	1.0 U*	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U*	1.0 U*	1.0 U*	1.0 U*	5.0 U*
Isopropylbenzene (Cumene)	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Methyl Iodide (Iodomethane)	NE	ug/L	–	–	–	–	1.0 U	1.0 U	1.0 U	1.0 U	–	–	–	–	–
Methylene Chloride	590	ug/L	–	–	–	2 U*	1.0 U	1.0 U	1.0 U	1.0 U	–	–	–	–	–
n-Butylbenzene	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
n-Propylbenzene	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
p-Isopropyltoluene	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Sec-Butylbenzene	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Tert-Butylbenzene	NE	µg/L	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Tetrachloroethene	3.3	ug/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Toluene	520	µg/L	1.0 U*	1.0 U*	1.0 U*	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U*	1.0 U*	1.0 U*	1.0 U*	5.0 U*
Trichloroethene	12.7	ug/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	–	–	–	–	–
Xylene, m-,p-	NE	µg/L	–	–	–	0.5 U*	0.40 U	0.40 U	0.40 U	0.40 U	5.0 U*	–	–	–	5.0 U*
Xylene, o-	NE	µg/L	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U*	–	–	–	5.0 U*

Parameter	Screening Level	Unit	MW-7 9/5/1991	MW-7 1/10/1992	MW-7 4/9/1992	MW-7 8/16/1992	MW-8 7/17/2008	MW-8 8/14/2013	MW-8 12/19/2013	MW-8 3/19/2014	MW-8 7/14/2014	MW-9 7/17/2008	MW-9 8/15/2013	MW-9 12/16/2013	MW-9 3/19/2014
TPH															
TPH[1]	500	µg/L	10000 U	2000 U	–	–	–	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	800	µg/L	–	–	250 U*	250 U*	–	250 U	250 U	250 U	250 U	–	250 U	250 U	250 U
Diesel-range hydrocarbons	500	µg/L	–	–	**6600 ***	**730 ***	–	100 U	100 U	100 U	100 U	–	100 U	100 U	100 U
Lube Oil-range Hydrocarbons	500	µg/L	–	–	–	–	–	200 U	200 U	200 U	200 U	–	200 U	200 U	200 U
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane	99	µg/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
2-Butanone (MEK)	NE	µg/L	–	–	–	–	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	20 U*	5.0 U	5.0 U	5.0 U
2-Hexanone	NE	ug/L	–	–	–	–	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	20 U*	5.0 U	5.0 U	5.0 U
Acetone	NE	µg/L	–	–	–	–	20 U*	5.0 U	**4.0 J**	5.0 U	5.0 U	20 U*	5.0 U	**3.8 J**	**2.5 J**
Benzene	58	µg/L	**2.0 ***	**1.7 ***	**1.6 ***	**1.1 ***	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	**0.8 ***	0.20 U	0.20 U	0.20 U
Bromomethane	967.9	ug/L	–	–	–	–	0.5 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U*	1.0 U	1.0 U	1.0 UJ
Carbon Disulfide	NE	µg/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
Chloroform	150	µg/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
Chloromethane	NE	µg/L	–	–	–	–	0.5 U*	0.50 U	0.50 U	0.50 U	**0.55**	0.5 U*	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	NE	µg/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
Dichlorodifluoromethane (CFC-12)	NE	ug/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 UJ
Ethylbenzene	130	µg/L	1.0 U*	1.0 U*	1.0 U*	1.0 U*	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
Isopropylbenzene (Cumene)	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
Methyl Iodide (Iodomethane)	NE	ug/L	–	–	–	–	–	1.0 U	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	590	ug/L	–	–	–	–	2 U*	1.0 U	1.0 U	1.0 U	1.0 U	2 U*	1.0 U	1.0 U	1.0 U
n-Butylbenzene	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
n-Propylbenzene	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
p-Isopropyltoluene	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
Sec-Butylbenzene	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
Tert-Butylbenzene	NE	µg/L	–	–	–	–	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U
Tetrachloroethene	3.3	ug/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
Toluene	520	µg/L	**70 ***	**4.2 ***	1.0 U*	**22 ***	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
Trichloroethene	12.7	ug/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U
Xylene, m-,p-	NE	µg/L	–	–	–	–	0.5 U*	0.40 U	0.40 U	0.40 U	0.40 U	0.5 U*	0.40 U	0.40 U	0.40 U
Xylene, o-	NE	µg/L	–	–	–	–	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U

Parameter	Screening Level	Unit	MW-9 7/14/2014	MW-10 7/17/2008	MW-10 8/16/2013	MW-10 12/16/2013	MW-10 3/19/2014	MW-10 7/15/2014	MW-11 7/17/2008	MW-11 8/15/2013	MW-11 12/26/2013	MW-11 3/19/2014	MW-11 7/14/2014	MW-12 7/16/2008	MW-12 8/16/2013
TPH															
TPH[1]	500	µg/L	–	–	–	–	–	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	800	µg/L	250 U	–	250 U	250 U	250 U	250 U	–	250 U	250 U	250 U	250 U	250 U*	**310**
Diesel-range hydrocarbons	500	µg/L	100 U	–	**150**	100 U	**360**	100 U	–	100 U	100 U	100 U	100 U	**680 J***	**410**
Lube Oil-range Hydrocarbons	500	µg/L	200 U	–	200 U	200 U	**240**	200 U	–	200 U	200 U	200 U	200 U	500 U*	200 U
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U
1,2,4-Trimethylbenzene	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U
1,2-Dichloroethane	99	µg/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	**1.5 ***	0.20 U
1,3,5-Trimethylbenzene	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U
2-Butanone (MEK)	NE	µg/L	5.0 U	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	20 U*	5.0 U
2-Hexanone	NE	ug/L	5.0 U	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	20 U*	5.0 U	5.0 UJ	5.0 U	5.0 U	20 U*	5.0 U
Acetone	NE	µg/L	5.0 U	20 U*	5.0 U	**3.0 J**	**2.2 J**	**2.8 J**	20 U*	5.0 U	5.0 U	5.0 U	5.0 U	20 U*	5.0 U
Benzene	58	µg/L	0.20 U	**1.1 ***	0.20 U	0.20 U	**0.30**	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	**59 ***	**0.55**
Bromomethane	967.9	ug/L	1.0 U	0.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	0.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	0.5 U*	1.0 U
Carbon Disulfide	NE	µg/L	**0.17 J**	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U
Chloroform	150	µg/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	**3.6 ***	0.20 U	**0.43**	0.20 U	0.20 U	0.5 U*	0.20 U
Chloromethane	NE	µg/L	**0.30 J**	0.5 U*	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U*	0.50 U	0.50 U	0.50 U	**0.28 J**	0.5 U*	0.50 U
cis-1,2-Dichloroethene	NE	µg/L	0.20 U	0.5 U*	0.20 U	0.20 U	**0.11 J**	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	**0.24**
Dichlorodifluoromethane (CFC-12)	NE	ug/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 UJ	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 UJ	0.20 U	0.5 U*	0.20 U
Ethylbenzene	130	µg/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U
Isopropylbenzene (Cumene)	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	**0.28**
Methyl Iodide (Iodomethane)	NE	ug/L	1.0 U	–	1.0 U	1.0 U	1.0 UJ	1.0 U	–	1.0 U	1.0 U	1.0 UJ	1.0 U	–	1.0 U
Methylene Chloride	590	ug/L	1.0 U	2 U*	1.0 U	1.0 U	1.0 U	1.0 U	2 U*	1.0 U	1.0 U	1.0 U	1.0 U	2 U*	1.0 U
n-Butylbenzene	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U
n-Propylbenzene	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U
p-Isopropyltoluene	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U
Sec-Butylbenzene	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U
Tert-Butylbenzene	NE	µg/L	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U	0.20 U	0.20 U	0.20 U	2 U*	0.20 U
Tetrachloroethene	3.3	ug/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U
Toluene	520	µg/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	**0.15 J**	0.20 U	0.20 U	**0.73 ***	0.20 U
Trichloroethene	12.7	ug/L	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	0.20 U	**0.20 U**	0.20 U	0.20 U	0.5 U*	0.20 U
Xylene, m-,p-	NE	µg/L	0.40 U	0.5 U*	0.40 U	0.40 U	**0.38 J**	0.40 U	0.5 U*	0.40 U	**0.11 J**	0.40 U	0.40 U	0.5 U*	**0.69**
Xylene, o-	NE	µg/L	0.20 U	0.5 U*	0.20 U	0.20 U	**0.14 J**	0.20 U	0.5 U*	0.20 U	0.20 U	0.20 U	0.20 U	0.5 U*	**0.42**

Parameter	Screening Level	Unit	MW-12 12/16/2013	MW-12 3/19/2014	MW-12 7/15/2014	MW-13 8/14/2013	MW-13 12/17/2013	MW-13 3/20/2014	MW-13 7/14/2014	MW-14 8/19/2013	MW-14 12/17/2013	MW-14 3/18/2014	MW-14 7/14/2014	MW-15 8/15/2013	MW-15 12/26/2013
TPH															
TPH[1]	500	µg/L	–	–	–	–	–	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	800	µg/L	**550**	**500**	**680**	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Diesel-range hydrocarbons	500	µg/L	**550**	**530**	**540**	100 U	100 U	100 U	100 U	100 U	**990**	100 U	100 U	**140**	**130**
Lube Oil-range Hydrocarbons	500	µg/L	**350**	**230**	**200**	200 U	200 U	200 U	200 U	200 U	**370**	200 U	200 U	200 U	200 U
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	NE	µg/L	**0.15 J**	0.20 U	**0.12 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane	99	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
2-Butanone (MEK)	NE	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	NE	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetone	NE	µg/L	**2.9 J**	**2.7 J**	5.0 U	5.0 U	**3.0 J**	5.0 U	5.0 U	5.0 U	**2.4 J**	5.0 U	5.0 U	5.0 U	3.1 U
Benzene	58	µg/L	**0.12 J**	**0.28**	**0.30**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Bromomethane	967.9	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform	150	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloromethane	NE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.36 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	NE	µg/L	**0.18 J**	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Dichlorodifluoromethane (CFC-12)	NE	ug/L	**0.20 U**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	130	µg/L	**0.05 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Isopropylbenzene (Cumene)	NE	µg/L	**0.43**	**0.30**	**0.37**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Methyl Iodide (Iodomethane)	NE	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	590	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
n-Propylbenzene	NE	µg/L	**0.10 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
p-Isopropyltoluene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**1.4**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Sec-Butylbenzene	NE	µg/L	**0.16 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tert-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachloroethene	3.3	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	520	µg/L	**0.22**	**0.23**	**0.16 J**	**0.11 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichloroethene	12.7	ug/L	**0.20 U**	**0.20 U**	**0.20 U**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylene, m-,p-	NE	µg/L	**1.0**	**0.82**	**0.77**	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Xylene, o-	NE	µg/L	**0.44**	**0.40**	**0.43**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Parameter	Screening Level	Unit	MW-15 3/20/2014	MW-15 7/15/2014	MW-16 8/19/2013	MW-16 12/16/2013	MW-16 3/17/2014	MW-16 7/17/2014	MW-17 8/19/2013	MW-17 12/20/2013	MW-17 3/17/2014	MW-17 7/16/2014	MW-18 8/20/2013	MW-18 12/19/2013	MW-18 3/18/2014
TPH															
TPH[1]	500	µg/L	–	–	–	–	–	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	800	µg/L	250 U	250 U	250 U	250 U	**390**	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Diesel-range hydrocarbons	500	µg/L	**150**	**120**	**360**	**270**	**480**	**360**	**300 J**	**440**	**370**	**530**	**430**	**420**	**600**
Lube Oil-range Hydrocarbons	500	µg/L	200 U	200 U	**390**	**250**	200 U	**210**	**230**	**470**	**290**	**450**	**270**	**380**	**330**
VOCs															
1,1,2-Trichloroethane	8.9	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	NE	µg/L	0.20 U	0.20 U	**0.14 J**	**0.19 J**	**0.49**	**0.35**	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.20 U	0.20 U
1,2-Dichloroethane	99	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.31**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
2-Butanone (MEK)	NE	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone		ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	NE	µg/L	**2.6 J**	5.0 U	5.0 U	**2.9 J**	**4.6 J**	**2.3 J**	**4.2 J**	**4.3 J**	**2.2 J**	2.9 U	5.0 U	**2.8 J**	5.0 U
Benzene	58	µg/L	0.20 U	0.20 U	**49**	**78**	**22**	**65**	**0.12 J**	**0.22**	**0.17 J**	**0.13 J**	0.20 U	0.20 U	0.20 U
Bromomethane	967.9	ug/L	1.0 U	1.0 U	**1.0 U**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	NE	µg/L	0.20 U	0.20 U	**0.48**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform	150	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloromethane	NE	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 UJ	**0.22 J**	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	NE	µg/L	0.20 U	0.20 U	**0.21**	**0.30**	0.20 U	**0.14 J**	**0.11 J**	0.20 U	0.20 U	0.20 U	**0.19 J**	**0.18 J**	**0.13 J**
Dichlorodifluoromethane (CFC-12)		ug/L	0.20 U	0.20 U	0.20 U	**0.20 U**	0.20 UJ	**0.20 U**	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	130	µg/L	0.20 U	0.20 U	0.20 U	**0.18 J**	**0.57**	**0.24**	**2.3**	**1.2**	**0.56**	**0.33**	0.20 U	0.20 U	0.20 U
Isopropylbenzene (Cumene)	NE	µg/L	0.20 U	0.20 U	0.20 U	**0.36**	**0.92**	**0.57**	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.20 U	0.20 U
Methyl Iodide (Iodomethane)		ug/L	1.0 U	1.0 U	1.0 U	**1.0 U**	1.0 U	**1.0 U**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	590	ug/L	1.0 U	1.0 U	1.0 U	**1.0 U**	1.0 U	**1.0 U**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	**0.27**	0.20 U	**0.23**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
n-Propylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	**1.1**	**2.5**	**1.5**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
p-Isopropyltoluene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Sec-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.10 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tert-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachloroethene	3.3	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	520	µg/L	0.20 U	0.20 U	**0.19 J**	**0.46**	**0.66**	**0.62**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichloroethene	12.7	ug/L	0.20 U	0.20 U	**0.20 U**	**0.20 U**	**0.20 U**	**0.20 U**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylene, m-,p-	NE	µg/L	0.40 U	0.40 U	**0.35 J**	**1.9**	**4.9**	**2.7**	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Xylene, o-	NE	µg/L	0.20 U	0.20 U	**0.18 J**	**0.45**	**0.77**	**0.76**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Parameter	Screening Level	Unit	MW-18 7/16/2014	MW-19 8/20/2013	MW-19 12/16/2013	MW-19 3/17/2014	MW-19 7/16/2014	MWA 11/24/2015	MWA 3/30/2016	MWB 11/24/2015	MWB 3/30/2016	MWC 11/24/2015	MWC 3/30/2016
TPH													
TPH[1]	500	µg/L	–	–	–	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	800	µg/L	250 U	**420**	**690**	**1000**	**980**	**350**	**260**	**380**	**500**	250 U	100 U
Diesel-range hydrocarbons	500	µg/L	**400**	**1100**	100 U	**1100**	**1100**	**750**	**760**	**460**	**150**	100 U	100 U
Lube Oil-range Hydrocarbons	500	µg/L	**250**	**260**	200 U	**400**	**320**	**1200**	**1100**	200 U	200 U	200 U	200 U
VOCs													
1,1,2-Trichloroethane	8.9	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	–	0.20 U	–	0.20 U	–
1,2,4-Trimethylbenzene	NE	µg/L	0.20 U	**0.78**	**0.73**	**1.2**	**1.4**	**0.82**	**0.59**	**7.6**	**12**	0.20 U	**0.03 JB**
1,2-Dichloroethane	99	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,3,5-Trimethylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	**0.70**	**0.85**	0.20 U	–	**4**	–	0.20 U	–
2-Butanone (MEK)	NE	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	NE	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	NE	µg/L	3.6 U	**6.6**	**4.8 J**	**3.2 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	58	µg/L	0.20 U	**27**	**25**	**31**	**24**	**31**	**29**	**0.27**	**0.33**	0.20 U	0.20 U
Bromomethane	967.9	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform	150	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.20 U**	0.20 U	**0.12 J**	0.20 U	0.20 U
Chloromethane	NE	µg/L	0.50 U	0.50 U	0.50 U	0.50 UJ	**0.38 J**	0.50 U	**0.14 JB**	0.50 U	**0.33 JB**	0.50 U	0.50 U
cis-1,2-Dichloroethene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.10 J**	**0.15 J**	**0.12 J**	0.20 U	0.20 U
Dichlorodifluoromethane (CFC-12)	NE	ug/L	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 U	–	–	–	–	–	–
Ethylbenzene	130	µg/L	0.20 U	**2.0**	**2.1**	**2.4**	**2.2**	**0.99**	**0.15 J**	**2**	**1.6**	0.20 U	0.20 U
Isopropylbenzene (Cumene)	NE	µg/L	0.20 U	**4.6**	**6.1**	**8.3**	**8.2**	**2.3**	**1.7**	**3.2**	**4.1**	0.20 U	0.20 U
Methyl Iodide (Iodomethane)	NE	ug/L	1.0 U	1.0 U	1.0 U	**1.0 U**	1.0 U	–	–	–	–	–	–
Methylene Chloride	590	ug/L	1.0 U	1.0 U	1.0 U	**1.0 U**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	**0.20**	0.20 U	**0.59**	**0.37 JQ**	**0.63**	**0.74 JQ**	0.20 U	0.20 U
n-Propylbenzene	NE	µg/L	0.20 U	**7.6**	**9.6**	**15**	**15**	**0.96**	**0.62**	**1.8**	**2.2**	0.20 U	0.20 U
p-Isopropyltoluene	NE	µg/L	0.20 U	0.20 U	0.20 U	**0.22**	**0.34**	**0.6**	**0.22**	**1.1**	**1.3**	0.20 U	0.20 U
Sec-Butylbenzene	NE	µg/L	0.20 U	0.20 U	**0.20**	**0.34**	**0.40**	**0.63**	**0.41**	**0.69**	**0.8**	0.20 U	0.20 U
Tert-Butylbenzene	NE	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.07 J**	**0.06 J**	**0.10 J**	0.20 U	0.20 U
Tetrachloroethene	3.3	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	520	µg/L	0.20 U	**2.9**	**3.3**	**3.8**	**3.5**	**0.26**	**0.07 J**	**0.28**	**0.10 J**	0.20 U	0.20 U
Trichloroethene	12.7	ug/L	0.20 U	**0.20 U**	**0.20 U**	**0.20 U**	**0.20 U**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylene, m-,p-	NE	µg/L	0.40 U	**11**	**13**	**18**	**16**	**0.84**	**0.55**	**2.7**	**6.1**	0.40 U	0.40 U
Xylene, o-	NE	µg/L	0.20 U	**1.9**	**1.9**	**2.5**	**2.7**	**0.83**	**0.27**	**0.12 J**	**1.7**	0.20 U	0.20 U

Notes:

[1] Historic Dames and Moore samples were analyzed by an out of date combined Total Petroleum Hydrocarbons (TPH) method. Review of chromatographs indicate product is predominantly heavy oil range hydrocarbons. Therefore, the Proposed Screening Level for lube oil range hydrocarbons is used to screen the historic data.

J = estimated value
NE = A Screening Level was not established for this analyte (See Table 9)
T = summed result
U = not detected
µg/L = micrograms per liter
Bold = detected value
Yellow Fill indicates detected result > the groundwater Screening Level
Blue Fill indicates not detected with reporting limit > the groundwater Screening Level

Table G-5

RI Groundwater Analytical Data - SVOCs and PAHs Results

7100 1st Avenue South Site

Seattle, Washington

Parameter	Screening Level	Unit	DP-10 7/8/2013	DP-11 7/8/2013	SP-1 7/18/2008	SP-1 9/4/2013	SP-1 3/20/2014	SP-1 7/14/2014	SEEP-1 5/4/2007	SEEP-1 9/3/2013	SEEP-1 3/20/2014	SEEP-1 7/14/2014	MW-1 7/16/2008	MW-1 8/15/2013	MW-1 12/16/2013
Semivolatile Organic Compounds (SVOCs)															
2,4-Dimethylphenol	150	µg/L	3.0 U	3.0 U	4 U*	3.0 U	3.0 U	3.0 U	2.3 U*	3.0 U	3.0 U	3.0 U	3.8 U*	3.0 U	3.0 U
Benzoic Acid	NE	µg/L	20 U	20 U	5 U*	20 U	20 U	20 U	5.6 U*	20 U	20 U	20 U	4.8 U*	20 U	20 UJ
Benzyl Alcohol		µg/L	2.0 U	2.0 U	5 U*	2.0 U	2.0 U	2.0 U	5.6 U*	2.0 U	2.0 U	2.0 U	4.8 U*	2.0 U	2.0 U
Bis(2-Ethylhexyl) Phthalate	1.0	µg/L	3.0 U	3.0 U	1 U*	3.0 U	3.0 U	3.0 U	1.2 U*	**1.0 J**	3.0 U	3.0 U	0.95 U*	3.0 U	3.0 U
Butyl benzyl phthalate	82.4	µg/L	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	0.23 U*	1.0 U	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U
Carbazole	NE	µg/L	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U
Dibutyl phthalate	2900	µg/L	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	**0.11 J***	1.0 U	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U
Diethyl phthalate	600	µg/L	1.0 U	**1.4**	0.2 U*	1.0 U	1.0 U	1.0 U	**0.04 J***	1.0 U	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U
Dimethyl phthalate	1.1e+006	µg/L	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	0.23 U*	1.0 U	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U
Di-N-Octyl Phthalate		µg/L	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	0.23 U*	1.0 U	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U
Isophorone	600	µg/L	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U
N-Nitrosodiphenylamine (as diphe	6	µg/L	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	0.23 U*	1.0 U	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U
p-Cresol (4-methylphenol)	NE	µg/L	2.0 U	2.0 U	0.5 U*	2.0 U	2.0 U	2.0 U	0.56 U*	2.0 U	2.0 U	2.0 U	0.48 U*	2.0 U	2.0 U
Pentachlorophenol	5	µg/L	10 U	10 U	1 U*	10 U	10 U	10 U	**0.06 J***	10 U	10 U	10 U	0.95 U*	10 U	10 U
Phenol	150000	µg/L	**1.7**	1.0 U	0.5 U*	1.0 U	1.0 U	1.0 U	0.56 U*	1.0 U	1.0 U	1.0 U	0.48 U*	1.0 U	1.0 U
Phosphoric Acid Tributyl Ester	NE	µg/L	–	–	–	1.0 U	1.0 U	–	–	1.0 U	1.0 U	–	–	1.0 U	1.0 U
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	NE	µg/L	**20**	**2.2**	–	**0.096**	0.010 U	**0.010**	–	0.010 U	0.010 U	0.010 U	–	**0.013**	**0.017**
2-Methylnaphthalene	NE	µg/L	**31**	**0.99**	0.2 U*	0.010 U	0.010 U	0.010 U	0.23 U*	0.010 U	0.010 U	0.010 U	0.19 U*	**0.017**	**0.017**
Acenaphthene	90	µg/L	**0.19**	**0.49**	**0.35 ***	**0.94 J**	**0.030 J**	**0.24**	0.23 U*	**0.010**	0.010 U	0.010 U	0.19 U*	**0.14**	**0.10**
Acenaphthylene	NE	µg/L	0.010 U	**0.013**	0.2 U*	**0.015**	0.010 U	0.010 U	0.23 U*	0.010 U	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Anthracene	400	µg/L	**0.027**	**0.014**	0.2 U*	**0.057 J**	0.010 U	0.010 U	0.23 U*	0.010 U	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Benzo(ghi)perylene	0.016	µg/L	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.23 U*	**0.034**	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Dibenzofuran	NE	µg/L	**0.048**	**0.033**	0.2 U*	0.19 UJ	**0.010 J**	**0.026**	0.23 U*	0.010 UJ	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Fluoranthene	3.3	µg/L	**0.056**	**0.012**	0.2 U*	**0.50 J**	**0.037**	**0.019**	**0.04 J***	**0.056**	**0.028**	0.010 U	0.19 U*	0.010 U	0.010 U
Fluorene	70	µg/L	**0.11**	**0.13**	0.2 U*	**0.19 J**	0.010 U	**0.020**	0.23 U*	0.010 U	0.010 U	0.010 U	0.19 U*	**0.018**	**0.015**
Naphthalene	1.4	µg/L	**57**	**0.43**	–	**0.17**	**0.022 J**	**0.027**	–	**0.018**	**0.010**	**0.013**	–	**0.046**	**0.018**
Phenanthrene	NE	µg/L	**0.15**	**0.072**	0.2 U*	**0.16**	**0.012**	**0.012**	0.23 U*	**0.019**	0.010 U	0.010 U	0.19 U*	0.010 U	**0.013**
Pyrene	30	µg/L	**0.065**	**0.011**	0.2 U*	**0.36**	**0.041 J**	**0.012**	**0.04 J***	**0.074**	**0.032**	0.010 U	0.19 U*	0.010 U	0.010 UJ
Benzo(a)pyrene	0.010	µg/L	0.010 U	0.010 U	–	0.010 UJ	**0.011**	0.010 U	–	**0.018**	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Benzo(a)anthracene	0.010	µg/L	**0.011**	0.010 U	–	**0.022 J**	**0.020**	0.010 U	–	**0.021**	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Benzo(b)fluoranthene	0.018	µg/L	0.010 U	0.010 U	–	–	–	–	–	–	–	–	0.19 U*	–	–
Benzo(k)fluoranthene	0.018	µg/L	0.010 U	0.010 U	–	–	–	–	–	–	–	–	0.19 U*	–	–
Benzo(b,k)fluoranthene	0.018	µg/L	–	–	–	–	–	–	–	–	–	–	0.19 UT*	–	–
Benzofluoranthenes (Sum)	0.036	µg/L	0.020 U	0.020 U	–	0.020 UJ	**0.036**	0.020 U	–	**0.049**	0.020 U	0.020 U	–	0.020 U	0.020 U
Chrysene	0.031	µg/L	**0.011**	0.010 U	–	**0.033 J**	**0.072 J**	0.010 U	–	**0.032**	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Dibenzo(a,h)anthracene	0.018	µg/L	0.010 U	0.010 U	–	0.010 U	0.010 U	0.010 U	–	**0.010 U**	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.01	µg/L	0.010 U	0.010 U	–	0.010 UJ	0.010 U	0.010 U	–	**0.017 J**	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U
Total cPAH TEQ (ND=0.5RL)	0.01	µg/L	**0.00821 T***	0.00755 UT*	–	**0.00953 JT***	**0.01832 JT***	0.00755 UT*	–	**0.02752 JT***	0.00755 UT*	0.00755 UT*	0.1340 UT*	0.00755 UT*	0.00755 UT*

Parameter	Screening Level	Unit	MW-1 3/19/2014	MW-1 7/15/2014	MW-2R 8/20/2013	MW-2R 12/20/2013	MW-2R 3/18/2014	MW-2R 7/17/2014	MW-3 7/16/2008	MW-3 8/16/2013	MW-3 12/16/2013	MW-3 3/19/2014	MW-3 7/16/2014	MW-4 7/16/2008	MW-4 8/16/2013
SVOCs															
2,4-Dimethylphenol	150	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 UJ	4 U*	3.0 U	3.0 U	3.0 U	3.0 UJ	3.9 U*	3.0 U
Benzoic Acid	NE	µg/L	20 U	20 U	20 U	20 U	20 U	20 UJ	5 U*	20 U	20 UJ	20 U	20 UJ	4.9 U*	**12 J**
Benzyl Alcohol	0.00	µg/L	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 UJ	5 U*	2.0 U	2.0 U	2.0 U	2.0 UJ	4.9 U*	2.0 U
Bis(2-Ethylhexyl) Phthalate	1.0	µg/L	3.0 U	3.0 U	**0.9 J**	3.0 U	3.0 U	3.0 UJ	0.99 U*	3.0 U	3.0 U	3.0 U	3.0 UJ	0.98 U*	3.0 U
Butyl benzyl phthalate	82.4	µg/L	1.0 U	1.0 U	**1.0 U**	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U
Carbazole	NE	µg/L	1.0 U	1.0 U	**1.1**	**1.2**	**1.1**	**1.2 J**	–	1.0 U	**0.7 J**	**0.7 J**	**1.0 J**	–	1.0 U
Dibutyl phthalate	2900	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U
Diethyl phthalate	600	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U
Dimethyl phthalate	1.1e+006	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U
Di-N-Octyl Phthalate	0.00	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U
Isophorone	600	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	–	1.0 U	1.0 U	1.0 U	1.0 UJ	–	1.0 U
N-Nitrosodiphenylamine (as diphe	6	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U
p-Cresol (4-methylphenol)	NE	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	0.5 U*	2.0 U	2.0 U	2.0 U	2.0 UJ	0.49 U*	**3.7 NJ**
Pentachlorophenol	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 UJ	0.99 U*	10 U	10 U	10 U	10 UJ	0.98 U*	10 U
Phenol	150000	µg/L	1.0 U	1.0 U	**1.3**	**0.5 J**	1.0 U	1.0 UJ	**2.2 ***	1.0 U	1.0 U	1.0 U	1.0 UJ	**3 ***	1.0 U
Phosphoric Acid Tributyl Ester	NE	µg/L	1.0 U	–	1.0 U	1.0 U	1.0 U	–	–	1.0 U	1.0 U	1.0 U	–	–	1.0 U
PAHs															
1-Methylnaphthalene	NE	µg/L	0.010 U	0.010 U	**1.5**	**1.0**	**1.6**	**1.6**	–	**2.7**	**4.5**	**4.8**	**4.8**	–	**42**
2-Methylnaphthalene	NE	µg/L	0.010 U	0.010 U	**0.86**	**0.30**	**0.044**	**0.19**	**0.26 ***	**0.53**	**1.8**	**1.8**	**1.7**	0.2 U*	**83**
Acenaphthene	90	µg/L	**0.54**	**0.32**	**8.4**	**7.5**	**8.4**	**8.0**	**5.7 ***	**8.1**	**11**	**13**	**15**	0.2 U*	**0.28**
Acenaphthylene	NE	µg/L	0.010 U	0.010 U	**0.027**	**0.025**	**0.028**	**0.016**	0.2 U*	0.10 U	**0.035**	**0.053**	**0.044**	0.2 U*	0.10 U
Anthracene	400	µg/L	0.010 U	0.010 U	**0.18**	**0.092**	0.010 U	**0.013**	0.2 U*	0.10 U	**0.080**	**0.098**	**0.11**	0.2 U*	0.10 U
Benzo(ghi)perylene	0.016	µg/L	0.010 U	0.010 U	**0.016**	**0.028**	0.010 U	0.010 U	0.2 U*	0.10 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.10 U
Dibenzofuran	NE	µg/L	0.010 U	0.010 U	**0.76**	**0.47**	**0.19**	**0.21**	**1.2 ***	**1.4**	**2.6**	**3.1**	**3.3**	0.2 U*	0.10 U
Fluoranthene	3.3	µg/L	0.010 U	0.010 U	**0.67**	**0.48**	**0.025**	**0.037**	0.2 U*	0.10 U	**0.11**	**0.11**	**0.13**	0.2 U*	**0.15**
Fluorene	70	µg/L	**0.065**	**0.036**	**2.2**	**1.7**	**1.2**	**1.2**	**1.8 ***	**2.3**	**3.6**	**4.2**	**4.7**	0.2 U*	**0.21**
Naphthalene	1.4	µg/L	**0.013**	0.010 U	**2.4**	**0.69**	**0.10**	**0.55**	–	**3.0**	**0.98**	**0.65**	**0.76**	–	**200**
Phenanthrene	NE	µg/L	0.010 U	0.010 U	**2.4**	**0.89**	**0.14**	**0.30**	**2 ***	**1.2**	**2.0**	**2.5**	**3.0**	0.2 U*	**0.28**
Pyrene	30	µg/L	0.010 U	0.010 U	**0.56**	**0.38 J**	**0.018**	**0.023**	0.2 U*	0.10 U	**0.052 J**	**0.065**	**0.072**	0.2 U*	**0.12**
Benzo(a)pyrene	0.010	µg/L	0.010 U	0.010 U	**0.026**	**0.022**	0.010 U	0.010 U	0.2 U*	0.10 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.10 U
Benzo(a)anthracene	0.010	µg/L	0.010 U	0.010 U	**0.084**	**0.050**	0.010 U	0.010 U	0.2 U*	0.10 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.10 U
Benzo(b)fluoranthene	0.018	µg/L	–	–	--	--	–	–	0.2 U*	–	–	–	–	0.2 U*	–
Benzo(k)fluoranthene	0.018	µg/L	–	–	--	--	–	–	0.2 U*	–	–	–	–	0.2 U*	–
Benzo(b,k)fluoranthene	0.018	µg/L	–	–	--	--	–	–	0.2 UT*	–	–	–	–	0.2 UT*	–
Benzofluoranthenes (Sum)	0.036	µg/L	0.020 U	0.020 U	**0.052**	**0.042**	0.020 U	0.020 U	–	0.20 U	0.020 U	0.020 U	0.020 U	–	0.20 U
Chrysene	0.031	µg/L	0.010 U	0.010 U	**0.083**	**0.052**	0.010 U	0.010 U	0.2 U*	0.10 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.10 U
Dibenzo(a,h)anthracene	0.018	µg/L	0.010 U	0.010 U	**0.010 U**	**0.010 U**	0.010 U	0.010 U	0.2 U*	0.10 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.10 U
Indeno(1,2,3-cd)pyrene	0.01	µg/L	0.010 U	0.010 U	**0.011**	**0.016**	0.010 U	0.010 U	0.2 U*	0.10 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.10 U
Total cPAH TEQ (ND=0.5RL)	0.01	µg/L	0.00755 UT*	0.00755 UT*	**0.04203 T***	**0.03382 T***	0.00755 UT*	0.00755 UT*	0.141 UT*	0.0755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.141 UT*	0.0755 UT*

Parameter	Screening Level	Unit	MW-4 12/16/2013	MW-4 3/17/2014	MW-4 7/16/2014	MW-5 7/17/2008	MW-5 8/15/2013	MW-5 12/26/2013	MW-5 3/17/2014	MW-5 7/17/2014	MW-8 7/17/2008	MW-8 8/14/2013	MW-8 12/19/2013	MW-8 3/19/2014	MW-8 7/14/2014
SVOCs															
2,4-Dimethylphenol	150	µg/L	3.0 U	3.0 U	3.0 UJ	4 U	3.0 U	3.0 U	3.0 U	3.0 UJ	4 U*	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	NE	µg/L	20 UJ	20 U	20 UJ	5 U*	20 U	20 U	20 U	20 UJ	5 U*	20 U	20 U	20 U	20 U
Benzyl Alcohol	0.00	µg/L	2.0 U	2.0 U	2.0 UJ	5 U*	2.0 U	2.0 UJ	2.0 U	2.0 UJ	5 U*	2.0 U	2.0 UJ	2.0 U	2.0 U
Bis(2-Ethylhexyl) Phthalate	1.0	µg/L	**0.8 J**	**1.6 J**	**0.8 J**	1 U*	3.0 U	3.0 U	3.0 U	3.0 UJ	0.99 U*	3.0 U	3.0 U	3.0 U	3.0 U
Butyl benzyl phthalate	82.4	µg/L	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U
Carbazole	NE	µg/L	1.0 U	1.0 U	1.0 UJ	–	1.0 U	1.0 U	1.0 U	1.0 UJ	–	1.0 U	1.0 U	1.0 U	1.0 U
Dibutyl phthalate	2900	µg/L	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U
Diethyl phthalate	600	µg/L	1.0 U	1.0 U	1.0 UJ	0.24 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U
Dimethyl phthalate	1.1e+006	µg/L	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U
Di-N-Octyl Phthalate	0.00	µg/L	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	600	µg/L	1.0 U	1.0 U	1.0 UJ	**0.3 ***	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine (as diphe	6	µg/L	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U
p-Cresol (4-methylphenol)	NE	µg/L	**3.2**	**11**	**1.4 J**	0.5 U*	2.0 U	2.0 U	2.0 U	2.0 UJ	0.5 U*	2.0 U	2.0 U	2.0 U	2.0 U
Pentachlorophenol	5	µg/L	10 U	10 U	10 UJ	1 U*	10 U	10 U	10 U	10 UJ	0.99 U*	10 U	10 U	10 U	10 U
Phenol	150000	µg/L	1.0 U	1.0 U	1.0 UJ	0.5 U*	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.5 U*	1.0 U	1.0 U	1.0 U	1.0 U
Phosphoric Acid Tributyl Ester	NE	µg/L	1.0 U	1.0 U	–	–	1.0 U	1.0 U	1.0 U	–	–	1.0 U	1.0 U	1.0 U	–
PAHs															
1-Methylnaphthalene	NE	µg/L	**19**	**32**	**28**	–	0.010 U	0.010 U	**0.014**	0.010 U	–	**0.019**	0.010 U	0.010 U	0.010 U
2-Methylnaphthalene	NE	µg/L	**17**	**52**	**39**	0.2 U*	0.010 U	0.010 U	**0.018**	0.010 U	0.2 U*	**0.022**	0.010 U	0.010 U	0.010 U
Acenaphthene	90	µg/L	**0.23**	**0.23**	**0.20**	0.2 U*	**0.022**	**0.018**	**0.028**	**0.019**	0.2 U*	**0.032**	0.010 U	**0.020**	0.010 U
Acenaphthylene	NE	µg/L	**0.020**	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Anthracene	400	µg/L	**0.073**	**0.070**	**0.048**	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(ghi)perylene	0.016	µg/L	**0.022**	**0.018**	**0.010**	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Dibenzofuran	NE	µg/L	**0.046**	**0.054**	**0.042**	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Fluoranthene	3.3	µg/L	**0.27**	**0.22**	**0.14**	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	**0.021**	0.010 U	0.010 U
Fluorene	70	µg/L	**0.18**	**0.19**	**0.16**	0.2 U*	0.010 U	0.010 U	**0.010**	0.010 U	0.2 U*	**0.016**	0.010 U	0.010 U	0.010 U
Naphthalene	1.4	µg/L	**47**	**95**	**66**	–	**0.015**	0.010 U	**0.043**	**0.014**	–	**0.021**	**0.014**	0.010 U	**0.014**
Phenanthrene	NE	µg/L	**0.11**	**0.26**	**0.14**	0.2 U*	**0.013**	0.010 U	**0.011**	0.010 U	0.2 U*	**0.040**	**0.016**	0.010 U	0.010 U
Pyrene	30	µg/L	**0.27 J**	**0.22**	**0.12**	0.2 U*	**0.011**	0.010 UJ	0.010 U	0.010 U	0.2 U*	**0.011**	**0.012 J**	0.010 U	0.010 U
Benzo(a)pyrene	0.010	µg/L	**0.032**	**0.032**	**0.016**	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(a)anthracene	0.010	µg/L	**0.068**	**0.060**	**0.028**	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(b)fluoranthene	0.018	µg/L	–	--	--	0.2 U*	–	–	–	–	0.2 U*	–	–	–	–
Benzo(k)fluoranthene	0.018	µg/L	–	--	--	0.2 U*	–	–	–	–	0.2 U*	–	–	–	–
Benzo(b,k)fluoranthene	0.018	µg/L	–	--	--	0.2 UT*	–	–	–	–	0.2 UT*	–	–	–	–
Benzofluoranthenes (Sum)	0.036	µg/L	**0.052**	**0.059**	**0.028**	–	0.020 U	0.020 U	0.020 U	0.020 U	–	0.020 U	0.020 U	0.020 U	0.020 U
Chrysene	0.031	µg/L	**0.049**	**0.042**	**0.019**	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Dibenzo(a,h)anthracene	0.018	µg/L	**0.010 U**	**0.010 U**	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.01	µg/L	**0.013**	**0.011**	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U
Total cPAH TEQ (ND=0.5RL)	0.01	µg/L	**0.04629 T***	**0.04592 T***	**0.02279 T***	0.141 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.141 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*

Parameter	Screening Level	Unit	MW-9 7/17/2008	MW-9 8/15/2013	MW-9 12/16/2013	MW-9 3/19/2014	MW-9 7/14/2014	MW-10 7/17/2008	MW-10 8/16/2013	MW-10 12/16/2013	MW-10 3/19/2014	MW-10 7/15/2014	MW-11 7/17/2008	MW-11 8/15/2013	MW-11 12/26/2013
SVOCs															
2,4-Dimethylphenol	150	µg/L	4 U*	3.0 U	3.0 U	3.0 U	3.0 U	4 U*	3.0 U	3.0 U	3.0 U	3.0 U	4 U*	3.0 U	3.0 U
Benzoic Acid	NE	µg/L	5 U*	20 U	20 UJ	20 U	20 U	5 U*	20 U	20 UJ	20 U	20 U	5 U*	20 U	20 U
Benzyl Alcohol	0.00	µg/L	5 U*	2.0 U	2.0 U	2.0 U	2.0 U	5 U*	2.0 U	2.0 U	2.0 U	2.0 U	5 U*	2.0 U	2.0 UJ
Bis(2-Ethylhexyl) Phthalate	1.0	µg/L	1 U*	3.0 U	3.0 U	3.0 U	3.0 U	0.99 U*	3.0 U	3.0 U	3.0 U	3.0 U	1 U*	3.0 U	3.0 U
Butyl benzyl phthalate	82.4	µg/L	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U
Carbazole	NE	µg/L	–	1.0 U	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U
Dibutyl phthalate	2900	µg/L	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U
Diethyl phthalate	600	µg/L	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U
Dimethyl phthalate	1.1e+006	µg/L	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U
Di-N-Octyl Phthalate	0.00	µg/L	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U
Isophorone	600	µg/L	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U
N-Nitrosodiphenylamine (as diphe	6	µg/L	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U*	1.0 U	1.0 U
p-Cresol (4-methylphenol)	NE	µg/L	0.5 U*	2.0 U	**0.6 J**	2.0 U	2.0 U	0.5 U*	2.0 U	2.0 U	2.0 U	2.0 U	0.5 U*	2.0 U	2.0 U
Pentachlorophenol	5	µg/L	1 U*	10 U	10 U	10 U	10 U	0.99 U*	10 U	10 U	10 U	10 U	1 U*	10 U	10 U
Phenol	150000	µg/L	0.5 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U*	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U*	1.0 U	1.0 UJ
Phosphoric Acid Tributyl Ester	NE	µg/L	–	1.0 U	1.0 U	1.0 U	–	–	1.0 U	1.0 U	1.0 U	–	–	1.0 U	1.0 U
PAHs															
1-Methylnaphthalene	NE	µg/L	–	**0.064**	0.010 U	0.010 U	0.010 U	–	**0.045**	0.010 U	**0.33**	**0.046**	–	**0.017**	0.010 U
2-Methylnaphthalene	NE	µg/L	0.2 U*	**0.10**	0.010 U	0.010 U	0.010 U	0.2 U*	**0.011**	0.010 U	**0.025**	0.010 U	0.2 U*	**0.034**	0.010 U
Acenaphthene	90	µg/L	**0.28 ***	**0.045**	0.010 U	**0.045**	**0.16**	**0.68 ***	**4.6**	**1.4**	**7.0**	**3.3**	0.2 U*	0.010 U	0.010 U
Acenaphthylene	NE	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	**0.020**	0.010 U	0.2 U*	0.010 U	0.010 U
Anthracene	400	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	**0.020**	**0.011**	**0.020**	**0.013**	0.2 U*	0.010 U	0.010 U
Benzo(ghi)perylene	0.016	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U
Dibenzofuran	NE	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	**0.048**	0.010 U	**0.17**	**0.017**	0.2 U*	0.010 U	0.010 U
Fluoranthene	3.3	µg/L	0.2 U*	**0.012**	0.010 U	**0.012**	0.010 U	0.2 U*	**0.044**	**0.068**	**0.060**	**0.062**	0.2 U*	0.010 U	0.010 U
Fluorene	70	µg/L	0.2 U*	**0.011**	0.010 U	0.010 U	0.010 U	0.2 U*	**0.087**	0.010 U	**0.66**	**0.031**	0.2 U*	0.010 U	0.010 U
Naphthalene	1.4	µg/L	–	**0.26**	**0.012**	**0.014**	**0.014**	–	**0.024**	**0.053**	**0.14**	**0.096**	–	**0.096**	**0.046**
Phenanthrene	NE	µg/L	0.2 U*	**0.022**	0.010 U	0.010 U	0.010 U	0.2 U*	**0.037**	0.010 U	**0.15**	**0.012**	0.2 U*	0.010 U	0.010 U
Pyrene	30	µg/L	0.2 U*	**0.011**	0.010 UJ	**0.012**	0.010 U	0.2 U*	**0.029**	**0.032 J**	**0.027**	**0.035**	0.2 U*	0.010 U	0.010 UJ
Benzo(a)pyrene	0.010	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	–	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U
Benzo(a)anthracene	0.010	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	–	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U
Benzo(b)fluoranthene	0.018	µg/L	0.2 U*	–	–	–	–	–	–	–	–	–	0.2 U*	–	–
Benzo(k)fluoranthene	0.018	µg/L	0.2 U*	–	–	–	–	–	–	–	–	–	0.2 U*	–	–
Benzo(b,k)fluoranthene	0.018	µg/L	0.2 UT*	–	–	–	–	–	–	–	–	–	0.2 UT*	–	–
Benzofluoranthenes (Sum)	0.036	µg/L	–	0.020 U	0.020 U	0.020 U	0.020 U	–	0.020 U	0.020 U	0.020 U	0.020 U	–	0.020 U	0.020 U
Chrysene	0.031	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	–	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U
Dibenzo(a,h)anthracene	0.018	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	–	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.01	µg/L	0.2 U*	0.010 U	0.010 U	0.010 U	0.010 U	–	0.010 U	0.010 U	0.010 U	0.010 U	0.2 U*	0.010 U	0.010 U
Total cPAH TEQ (ND=0.5RL)	0.01	µg/L	0.141 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	–	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.141 UT*	0.00755 UT*	0.00755 UT*

Parameter	Screening Level	Unit	MW-11 3/19/2014	MW-11 7/14/2014	MW-12 7/16/2008	MW-12 8/16/2013	MW-12 12/16/2013	MW-12 3/19/2014	MW-12 7/15/2014	MW-13 8/14/2013	MW-13 12/17/2013	MW-13 3/20/2014	MW-13 7/14/2014	MW-14 8/19/2013	MW-14 12/17/2013
SVOCs															
2,4-Dimethylphenol	150	µg/L	3.0 U	3.0 U	3.8 U*	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	NE	µg/L	20 U	20 U	4.8 U*	20 U	20 UJ	20 U	20 U	20 U	20 UJ	20 U	20 U	20 U	20 UJ
Benzyl Alcohol	0.00	µg/L	2.0 U	2.0 U	4.8 U*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis(2-Ethylhexyl) Phthalate	1.0	µg/L	3.0 U	3.0 U	0.95 U*	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Butyl benzyl phthalate	82.4	µg/L	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbazole	NE	µg/L	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibutyl phthalate	2900	µg/L	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Diethyl phthalate	600	µg/L	1.0 U	1.0 U	0.19 U*	**0.6 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dimethyl phthalate	1.1e+006	µg/L	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Di-N-Octyl Phthalate	0.00	µg/L	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	600	µg/L	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine (as diphe	6	µg/L	1.0 U	1.0 U	0.19 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Cresol (4-methylphenol)	NE	µg/L	2.0 U	2.0 U	0.48 U*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Pentachlorophenol	5	µg/L	10 U	10 U	0.95 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	150000	µg/L	1.0 U	1.0 U	0.48 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Phosphoric Acid Tributyl Ester	NE	µg/L	1.0 U	–	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U
PAHs															
1-Methylnaphthalene	NE	µg/L	0.010 U	0.010 U	–	**0.11**	**0.10**	**0.20**	**0.20**	**0.13**	**0.016**	0.010 U	0.010 U	**0.011**	**0.013**
2-Methylnaphthalene	NE	µg/L	0.010 U	0.010 U	**0.3 ***	0.010 U	0.010 U	0.010 U	**0.020**	**0.14**	**0.018**	0.010 U	**0.011**	**0.012**	**0.015**
Acenaphthene	90	µg/L	0.010 U	0.010 U	0.19 U*	**0.49**	**0.69**	**2.1**	**1.2**	**0.081**	**0.026**	0.010 U	0.010 U	**0.012**	**0.020**
Acenaphthylene	NE	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.034**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Anthracene	400	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.038**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(ghi)perylene	0.016	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.012**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Dibenzofuran	NE	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.014**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Fluoranthene	3.3	µg/L	0.010 U	0.010 U	0.19 U*	**0.012**	0.010 U	0.010 U	0.010 U	**0.11**	**0.024**	0.010 U	0.010 U	0.010 U	0.010 U
Fluorene	70	µg/L	0.010 U	0.010 U	0.19 U*	**0.040**	**0.028**	**0.046**	**0.024**	**0.087**	0.010 U	0.010 U	0.010 U	**0.0053 J**	0.010 U
Naphthalene	1.4	µg/L	0.010 U	**0.023**	–	**0.023**	**0.012**	**0.014**	**0.012**	**0.16**	**0.014**	0.010 U	**0.010**	**0.019**	**0.016**
Phenanthrene	NE	µg/L	0.010 U	0.010 U	0.19 U*	**0.040**	**0.020**	**0.026**	**0.024**	**0.22**	**0.019**	0.010 U	**0.016**	**0.0081 J**	0.010 U
Pyrene	30	µg/L	0.010 U	0.010 U	0.19 U*	**0.013**	0.010 UJ	0.010 U	0.010 U	**0.14**	**0.023 J**	0.010 U	0.010 U	**0.0076 J**	0.010 UJ
Benzo(a)pyrene	0.010	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.021**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(a)anthracene	0.010	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.029**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(b)fluoranthene	0.018	µg/L	–	–	0.19 U*	–	–	–	–	–	–	–	–	–	–
Benzo(k)fluoranthene	0.018	µg/L	–	–	0.19 U*	–	–	–	–	–	–	–	–	–	–
Benzo(b,k)fluoranthene	0.018	µg/L	–	–	0.19 UT*	–	–	–	–	–	–	–	–	–	–
Benzofluoranthenes (Sum)	0.036	µg/L	0.020 U	0.020 U	–	0.020 U	0.020 U	0.020 U	0.020 U	**0.035**	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Chrysene	0.031	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.044**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Dibenzo(a,h)anthracene	0.018	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.01	µg/L	0.010 U	0.010 U	0.19 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Total cPAH TEQ (ND=0.5RL)	0.01	µg/L	0.00755 UT*	0.00755 UT*	0.1340 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	**0.02884 T***	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*

Parameter	Screening Level	Unit	MW-14 3/18/2014	MW-14 7/14/2014	MW-15 8/15/2013	MW-15 12/26/2013	MW-15 3/20/2014	MW-15 7/15/2014	MW-16 8/19/2013	MW-16 12/16/2013	MW-16 3/17/2014	MW-16 7/17/2014	MW-17 8/19/2013	MW-17 12/20/2013	MW-17 3/17/2014
SVOCs															
2,4-Dimethylphenol	150	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	**0.8 J**	3.0 U	3.0 U	3.0 U
Benzoic Acid	NE	µg/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 UJ	20 U	20 UJ	20 U	20 U	20 U
Benzyl Alcohol	0.00	µg/L	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 UJ	2.0 U
Bis(2-Ethylhexyl) Phthalate	1.0	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	**0.9 J**	3.0 U	3.0 U	3.0 UJ	**0.6 J**	3.0 U	**1.8 J**
Butyl benzyl phthalate	82.4	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbazole	NE	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.1**	**1.9 J**	1.0 U	1.0 U	1.0 U
Dibutyl phthalate	2900	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Diethyl phthalate	600	µg/L	1.0 U	0.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dimethyl phthalate	1.1e+006	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Di-N-Octyl Phthalate	0.00	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Isophorone	600	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine (as diphe	6	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
p-Cresol (4-methylphenol)	NE	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	**1.1 J**	2.0 U	2.0 U
Pentachlorophenol	5	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Phenol	150000	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	**0.7 J**	**1.0**	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Phosphoric Acid Tributyl Ester	NE	µg/L	1.0 U	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U	–	1.0 U	1.0 U	1.0 U
PAHs															
1-Methylnaphthalene	NE	µg/L	0.010 U	**0.90**	**0.011**	0.010 U	0.010 U	0.010 U	**0.095**	**0.16**	**19**	**4.8**	**0.077**	**0.068**	**0.075**
2-Methylnaphthalene	NE	µg/L	**0.011**	**1.3**	**0.014**	0.010 U	0.010 U	**0.011**	**0.054**	**0.034**	**11**	**2.9**	**0.069**	**0.060**	**0.068**
Acenaphthene	90	µg/L	**0.034**	**0.15**	**0.016**	**0.020**	**0.050**	**0.036**	**0.12**	**0.11**	**24**	**7.4**	**0.022**	**0.020**	**0.021**
Acenaphthylene	NE	µg/L	0.010 U	**0.041**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.19**	**0.048**	0.010 U	0.010 U	0.010 U
Anthracene	400	µg/L	0.010 U	**0.053**	0.010 U	0.010 U	0.010 U	0.010 U	**0.036**	0.010 U	**0.33**	**0.16**	0.010 U	0.010 U	**0.010**
Benzo(ghi)perylene	0.016	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.0066 J**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Dibenzofuran	NE	µg/L	0.010 U	**0.049**	0.010 U	0.010 U	0.010 U	0.010 U	**0.013**	0.010 U	**4.6**	**1.5**	**0.0064 J**	0.010 U	0.010 U
Fluoranthene	3.3	µg/L	0.010 U	**0.040**	**0.017**	0.010 U	**0.014**	0.010 U	**0.088**	**0.016**	**0.31**	**0.18**	**0.014**	0.010 U	**0.032**
Fluorene	70	µg/L	0.010 U	**0.39**	**0.011**	0.010 U	0.010 U	0.010 U	**0.099**	**0.031**	**11**	**3.8**	**0.015**	**0.012**	**0.023**
Naphthalene	1.4	µg/L	0.010 U	**0.057**	**0.015**	0.010 U	0.010 U	**0.011**	**0.054**	**0.16**	**42**	**8.3**	**0.048 J**	**0.069**	**0.090**
Phenanthrene	NE	µg/L	0.010 U	**0.47**	**0.029**	0.010 U	**0.011**	0.010 U	**0.15**	**0.032**	**9.3**	**4.2**	**0.027**	**0.016**	**0.058**
Pyrene	30	µg/L	0.010 U	**0.046**	**0.024**	0.010 UJ	**0.011**	0.010 U	**0.091**	**0.012 J**	**0.14**	**0.072**	**0.020**	0.010 UJ	**0.045**
Benzo(a)pyrene	0.010	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.0082 J**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.010**
Benzo(a)anthracene	0.010	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.014**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.014**
Benzo(b)fluoranthene	0.018	µg/L	–	–	–	–	–	–	--	–	–	–	–	–	–
Benzo(k)fluoranthene	0.018	µg/L	–	–	–	–	–	–	--	–	–	–	–	–	–
Benzo(b,k)fluoranthene	0.018	µg/L	–	–	–	–	–	–	--	–	–	–	–	–	–
Benzofluoranthenes (Sum)	0.036	µg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	**0.0073 J**	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Chrysene	0.031	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.017**	0.010 U	0.010 U	0.010 U	**0.0064 J**	0.010 U	**0.022**
Dibenzo(a,h)anthracene	0.018	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.01	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Total cPAH TEQ (ND=0.5RL)	0.01	µg/L	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	0.00755 UT*	**0.0115 JT***	0.00755 UT*	0.00755 UT*	0.00755 UT*	**0.00756 JT***	0.00755 UT*	**0.01362 T***

Parameter	Screening Level	Unit	MW-17 7/16/2014	MW-18 8/20/2013	MW-18 12/19/2013	MW-18 3/18/2014	MW-18 7/16/2014	MW-19 8/20/2013	MW-19 12/16/2013	MW-19 3/17/2014	MW-19 7/16/2014	MWA 11/24/2015	MWA 3/30/2016	MWB 11/24/2015	MWB 3/30/2016	MWC 11/24/2015	MWC 3/30/2016
SVOCs																	
2,4-Dimethylphenol	150	µg/L	3.0 UJ	3.0 U	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 U	3.0 UJ	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	1.0 U
Benzoic Acid	NE	µg/L	20 UJ	20 U	20 U	20 U	20 UJ	20 U	20 UJ	20 U	**3.7 J**	20 U	2.0 U	20 U	2.0 U	20 U	2.0 U
Benzyl Alcohol	0.00	µg/L	2.0 UJ	2.0 U	2.0 UJ	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	–	–	–	–	–	–
Bis(2-Ethylhexyl) Phthalate	1.0	µg/L	**1.3 J**	3.0 U	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 U	3.0 UJ	**4**	**1.4**	3.0 U	**0.2**	3.0 U	**0.3**
Butyl benzyl phthalate	82.4	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	–	–	–	–	–	–
Carbazole	NE	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	**19**	**13**	**10**	**13 J**	**1**	**0.7 J**	**1**	**0.7 J**	1.0 U	0.2 U
Dibutyl phthalate	2900	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	–	–	–	–	–	–
Diethyl phthalate	600	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.2 U	1.0 U	**0.1 J**	1.0 U	**0.1 J**
Dimethyl phthalate	1.1e+006	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	–	–	–	–	–	–
Di-N-Octyl Phthalate	0.00	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	–	–	–	–	–	–
Isophorone	600	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	0.2 U
N-Nitrosodiphenylamine (as diphe	6	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	–	–	–	–	–	–
p-Cresol (4-methylphenol)	NE	µg/L	2.0 UJ	**0.7 J**	2.0 U	2.0 U	2.0 UJ	**0.8 J**	2.0 U	2.0 U	2.0 UJ	2.0 U	0.2 U	2.0 U	0.2 U	2.0 U	0.2 U
Pentachlorophenol	5	µg/L	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	–	–	–	–	–	–
Phenol	150000	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	**1.6**	**0.4**	1.0 U	0.2 U	1.0 U	0.2 U
Phosphoric Acid Tributyl Ester	NE	µg/L	–	**6.8**	**7.4 J**	**3.4**	–	1.0 U	1.0 U	1.0 U	–	–	–	–	–	–	–
PAHs																	
1-Methylnaphthalene	NE	µg/L	**0.078**	**0.24**	**0.11**	**0.10**	**0.058**	**29**	**18**	**22**	**29**	–	–	–	–	–	–
2-Methylnaphthalene	NE	µg/L	**0.065**	**0.10**	**0.039**	**0.028**	**0.017**	**28**	**16**	**20**	**26**	**5.1**	**0.8**	**7.8**	**6.4**	1.0 U	0.2 U
Acenaphthene	90	µg/L	**0.030**	**0.66**	**1.6**	**1.4**	**0.60**	**44**	**27**	**31**	**42**	**4**	**3.9**	**3**	**1.3**	0.10 U	0.01 U
Acenaphthylene	NE	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.095**	**0.057**	**0.078**	**0.10**	**0.23**	**0.1 J**	**0.05 J**	0.01 U	0.10 U	0.01 U
Anthracene	400	µg/L	0.010 U	**0.013**	0.010 U	0.010 U	0.010 U	**0.25**	**0.12**	**0.14**	**0.22**	**0.59**	**0.4**	0.10 U	0.016	0.10 U	0.01 U
Benzo(ghi)perylene	0.016	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.0063 J**	0.010 U	0.010 U	0.010 U	0.10 U	**0.037 J**	0.10 U	0.01 U	0.10 U	0.01 U
Dibenzofuran	NE	µg/L	**0.010**	**0.014**	**0.012**	**0.011**	0.010 U	**18**	**11**	**12**	**17**	**0.49**	**0.4**	**0.16**	**0.1**	0.10 U	0.01 U
Fluoranthene	3.3	µg/L	**0.012**	**0.035**	**0.020**	**0.011**	**0.013**	**0.043**	**0.034**	**0.027**	**0.038**	**0.33**	**0.4**	**0.08 J**	**0.027**	0.10 U	**0.012**
Fluorene	70	µg/L	**0.020**	**0.11**	**0.22**	**0.21**	**0.092**	**18**	**11**	**12**	**17**	**1.1**	**1**	**1**	**0.6**	0.10 U	0.01 U
Naphthalene	1.4	µg/L	**0.066**	**0.074**	**0.026**	**0.013**	**0.013**	**3.3**	**0.53**	**1.7**	**12**	**4.1**	**3.7**	**4.1**	**3.5**	0.10 U	0.01 U
Phenanthrene	NE	µg/L	**0.026**	**0.098**	**0.060**	**0.047**	**0.021**	**9.2**	**5.6**	**6.4**	**9.1**	**1.1**	**0.9**	**0.3**	**0.12**	0.10 U	0.01 U
Pyrene	30	µg/L	**0.014**	**0.034**	**0.013 J**	**0.010**	**0.011**	**0.033**	**0.018 J**	**0.013**	**0.014**	**0.38**	**0.6**	0.10 U	**0.023**	0.10 U	**0.015**
Benzo(a)pyrene	0.010	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.0056 J**	0.010 U	0.010 U	0.010 U	**0.07 J**	**0.06**	0.10 U	0.01 U	0.10 U	0.01 U
Benzo(a)anthracene	0.010	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.0080 J**	0.010 U	0.010 U	0.010 U	**0.08 J**	**0.088**	0.10 U	0.01 U	0.10 U	0.01 U
Benzo(b)fluoranthene	0.018	µg/L	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(k)fluoranthene	0.018	µg/L	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzo(b,k)fluoranthene	0.018	µg/L	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzofluoranthenes (Sum)	0.036	µg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	**0.016 J**	0.020 U	0.020 U	0.020 U	**0.04 J**	**0.2 J**	0.10 U	0.02 U	0.10 U	0.02 U
Chrysene	0.031	µg/L	0.010 U	**0.0052 J**	0.010 U	0.010 U	0.010 U	**0.0086 J**	0.010 U	0.010 U	0.010 U	**0.10 J**	**0.2**	0.10 U	0.01 U	0.10 U	0.01 U
Dibenzo(a,h)anthracene	0.018	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U						
Indeno(1,2,3-cd)pyrene	0.01	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.10 U	**0.022 J**	0.10 U	0.01 U	0.10 U	0.01 U
Total cPAH TEQ (ND=0.5RL)	0.01	µg/L	0.00755 UT*	**0.00755 JT***	0.00755 UT*	0.00755 UT*	0.00755 UT*	**0.00909 JT***	0.00755 UT*	0.00755 UT*	0.00755 UT*	**0.09**	**0.093**	0.071 U	0.01 U	0.071 U	0.01 U

Notes:

cPAH = carcinogenic PAH
J = estimated value
NE = A Screening Level was not established for this analyte (See Table 9)
T = summed result
TEQ = toxicity equivalent
U = not detected
µg/L = micrograms per liter
Bold = detected value
Yellow Fill indicates detected result > the groundwater Screening Level
Blue Fill indicates not detected with reporting limit > the groundwater Screening Level

Table G-6

RI Groundwater Analytical Data - PCBs, Pesticides, and Metals Results

7100 1st Avenue South Site

Seattle, Washington

Parameter	Screening Level	Unit	DP-10 7/8/2013	DP-11 7/8/2013	SP-1 7/18/2008	SP-1 9/4/2013	SP-1 3/20/2014	SP-1 7/14/2014	SEEP-1 5/4/2007	SEEP-1 9/3/2013	SEEP-1 3/20/2014	SEEP-1 7/14/2014	MW-1 7/16/2008	MW-1 8/15/2013	MW-1 12/16/2013	MW-1 3/19/2014	MW-1 7/15/2014	MW-2R 8/20/2013	MW-2R 12/20/2013	MW-2R 3/18/2014	MW-2R 7/17/2014
Polychlorinated Biphenyls (PCBs)																					
PCB-aroclor 1242	0.03	µg/L	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.02 U*	0.10 U	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.015 U	0.010 U
PCB-aroclor 1248	0.03	µg/L	0.010 U	0.010 U	0.02 U*	0.010 U	**0.0090 J**	**0.013**	0.02 U*	**1.4**	**0.26**	0.25 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.042**	0.015 U	0.010 U	0.015 U
PCB-aroclor 1254	0.01	µg/L	**0.017**	0.010 U	0.02 U*	**0.30 J**	**0.012**	**0.018**	0.02 U*	**1.9**	**0.22**	**0.40**	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.061**	0.020 U	0.010 U	0.025 U
PCB-aroclor 1260	0.015	µg/L	**0.0080 J**	0.010 U	0.02 U*	**0.30 J**	**0.011**	**0.014**	**0.5 ***	**1.1**	**0.17**	**0.15**	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.040**	**0.0060 J**	**0.0070 J**	0.010 U
Total PCBs	0.01	µg/L	**0.025 T**	0.015 UT	0.04 UT	**0.6 T**	**0.032 T**	**0.045 T**	**0.5 T**	**4.4 T**	**0.65 T**	**0.55 T**	0.04 UT	0.01 UT	0.01 UT	0.01 UT	0.01 UT	**0.143 T**	**0.006 T**	**0.007 T**	0.025 UT
Pesticides																					
2,4'-DDD	0.0005	µg/L	–	–	0.0005 U*	**0.00036 J**	**0.00039 J**	**0.00041 J**	**0.016 J***	**0.052**	**0.03**	**0.015 J**	0.00071 U*	0.00049 U	0.00050 U	0.00049 U	0.0005 U	**0.00085**	**0.00017 J**	0.00050 U	0.00049 U
2,4'-DDE	0.0005	µg/L	–	–	0.0005 U*	**0.00015 J**	**0.00025 J**	0.00050 U	0.013 U*	**0.0054**	**0.0047**	**0.0037 J**	0.0038 U*	0.00049 U	0.00050 U	0.00049 U	0.0005 U	**0.00051**	0.00050 U	0.00050 U	0.00049 U
2,4'-DDT	0.0005	µg/L	–	–	0.0005 U*	0.00049 U	0.00050 U	0.00050 U	0.011 U*	**0.0013**	**0.0020**	**0.00038 J**	0.0005 U*	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
4,4'-DDD	0.0005	µg/L	–	–	0.0005 U*	**0.0011**	**0.0012**	**0.0011**	**0.013 J***	**0.16**	**0.1**	**0.031 J**	0.0005 U*	0.00049 U	0.00050 U	0.00049 U	0.0005 U	**0.0077**	**0.0011**	**0.00023 J**	**0.00097**
4,4'-DDE	0.0005	µg/L	–	–	0.0005 U*	**0.0016**	**0.0026**	**0.0019**	**0.016 ***	**0.072**	**0.069**	**0.042 J**	0.0005 U*	**0.00022 J**	0.00050 U	0.00049 U	0.0005 U	**0.0052**	**0.00072**	**0.00012 J**	**0.00065**
4,4'-DDT	0.0005	µg/L	–	–	0.0005 U*	0.00049 U	**0.00043 J**	0.00050 U	**0.09 ***	**0.0032**	**0.0077**	**0.0017 J**	0.0005 U*	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
Aldrin	0.001	µg/L	–	–	0.0005 U*	0.0010 U	0.0010 U	0.0010 U	0.00053 U*	0.0022 U	0.0010 U	0.0010 U	0.0005 U*	0.0010 UJ	0.0010 U	0.0010 U	0.001 U	0.0010 U	0.0010 U	0.0010 U	0.001 U
Alpha-BHC	0.0049	µg/L	–	–	–	0.00049 U	0.00050 U	0.00050 U	–	**0.00015 J**	0.00050 U	0.00050 U	–	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
Beta-BHC	0.017	µg/L	–	–	–	0.00049 U	0.00050 U	0.00050 U	–	0.00050 U	0.00050 U	0.00050 U	–	**0.00020 J**	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
Chlorpyrifos	0.0056	µg/L	–	–	–	0.00049 U	**0.00021 J**	0.00075 U	–	0.00050 U	0.00050 U	0.00050 U	–	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
Delta-BHC	0.0414	µg/L	–	–	–	0.00049 U	0.00050 U	0.00050 U	–	0.00050 U	0.00050 U	0.00050 U	–	0.00060 U	0.00050 UJ	0.00049 U	0.0005 U	0.00050 U	0.00050 UJ	0.00050 U	0.00049 U
Dieldrin	0.005	µg/L	–	–	0.0038 U*	0.0049 U	**0.0040 J**	**0.0031 J**	0.00053 U*	0.0050 U	**0.0051**	**0.011 J**	0.0005 U*	0.0049 U	0.0050 U	0.0049 U	0.005 U	0.0050 U	0.0050 U	0.0050 U	0.0049 U
Endosulfan II	0.0087	µg/L	–	–	–	0.0020 U	**0.0050 U**	0.0020 U	–	0.017 U	**0.0050 U**	**0.0020 UJ**	–	0.0020 U	0.0020 U	0.0049 U	0.002 U	0.0020 U	0.0020 U	0.0050 U	0.002 U
Endosulfan Sulfate	0.0087	µg/L	–	–	–	0.00049 U	**0.00015 J**	0.00050 U	–	0.00050 U	**0.00081**	**0.00065**	–	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
Endrin	0.0023	µg/L	–	–	–	0.0020 U	0.0020 U	0.0020 U	–	0.0020 U	0.0020 U	0.0021 U	–	0.0020 U	0.0050 U	0.0020 U	0.002 U	0.0020 U	0.0050 U	0.0020 U	0.002 U
Endrin Ketone	0.0023	µg/L	–	–	–	0.00098 U	0.00099 U	0.0010 U	–	**0.00044 J**	0.00099 U	0.00099 U	–	0.00097 U	0.00099 U	0.00098 U	0.001 U	0.00099 U	0.00099 U	0.00099 U	0.00097 U
Heptachlor	0.001	µg/L	–	–	0.00088 U*	0.00098 U	**0.00013 J**	**0.00013 J**	0.00053 U*	0.00099 UJ	**0.00023 J**	0.00099 U	0.0005 U*	**0.00032 J**	0.00099 U	**0.00016 J**	0.00012 U	0.00099 U	0.00099 U	**0.00018 J**	0.00097 U
Heptachlor Epoxide	0.001	µg/L	–	–	–	0.00098 U	0.00099 U	0.0010 U	–	0.00099 U	**0.0013**	0.00099 U	–	0.00097 U	0.00099 U	0.00098 U	0.001 U	0.00099 U	0.00099 U	0.00099 U	0.00097 U
Hexachlorobenzene	0.001	µg/L	1.0 U	1.0 U	0.2 U*	0.00049 U	0.0099 U	**0.00050 J**	0.23 U*	**0.00036 J**	0.0099 U	**0.00046 J**	0.19 U*	0.00049 U	0.00099 U	0.0098 U	0.0005 U	0.00050 U	0.00099 U	0.0099 U	0.00049 U
Isodrin	NE	µg/L	–	–	–	0.0020 U	0.0020 U	0.0020 U	–	0.0020 U	0.0020 U	0.0020 U	–	0.0020 UJ	0.0020 U	0.0020 U	0.002 U	0.0020 U	0.0020 U	0.0020 U	0.002 U
Lindane (Gamma-BHC)	0.063	µg/L	–	–	0.0005 U*	0.00049 U	0.00050 U	0.00050 U	0.00053 U*	0.00050 UJ	0.0013 U	0.00050 U	0.0005 U*	**0.00042 J**	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
Methoxychlor	0.03	µg/L	–	–	–	0.00049 U	0.00050 U	0.00050 U	–	0.00050 U	0.00050 U	0.00050 U	–	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
Mirex	0.001	µg/L	–	–	–	**0.000095 J**	0.00024 U	0.0010 U	–	**0.00015 J**	0.000085 U	**0.00013 J**	–	0.00097 U	0.00099 U	0.000090 U	0.001 U	0.00099 U	**0.00015 J**	**0.000090 J**	0.00097 U
trans-Nonachlor	NE	µg/L	–	–	–	0.00049 U	0.00050 U	0.00050 U	–	**0.0012**	**0.0016**	**0.00094 J**	–	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
alpha-Chlordane (cis)	0.00059	µg/L	–	–	0.0021 U*	0.00049 U	**0.00057**	0.00050 U	–	**0.0030**	**0.0048**	**0.0031**	0.00084 U*	**0.00013 J**	0.00050 U	**0.00028 J**	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U
gamma-Chlordane	0.00059	µg/L	–	–	0.0005 U*	0.00049 U	0.00086 U	**0.00024 J**	–	**0.0038**	**0.0058**	**0.0040**	0.0005 U*	0.00049 U	0.00050 U	0.00049 U	0.0005 U	**0.00033 J**	0.00050 U	0.00050 U	0.00049 U
Total Metals																					
Arsenic	5	µg/L	–	–	5 U*	**5 J**	**5.9**	5 U	**7.51 ***	**4 J**	**1.7**	5 U	5 U*	**1.4**	**0.6**	**1.6**	1 U	**10.3**	**2.5**	**1.4**	**1.4**
Cadmium	8.8	µg/L	–	–	0.02 U*	0.2 U	0.1 U	1 U	**0.11 ***	0.5 U	0.1 U	1 U	0.02 U*	0.1 U	0.1 U	0.2 U	0.2 U	**0.6**	0.1 U	0.2 U	0.1 U
Chromium	27	µg/L	–	–	**0.7 ***	**1 J**	**1.4 J**	5 U	**4.92 ***	**4 J**	**3.3**	5 U	**1.3 ***	1 U	**0.9**	**1**	1 U	**21 J**	**3**	**2**	2 U
Copper	2.4	µg/L	–	–	**1.6 ***	**8 J**	**6.9**	**8**	**7.14 ***	**19**	**13.1**	**7**	**0.3 ***	0.5 U	0.5 U	1 U	1 U	**48**	**3.7**	**1**	1 U
Lead	8.1	µg/L	–	–	**0.75 ***	**7.5 J**	**3.0 J**	**2**	**11.8 ***	**44.7**	**14.0**	**46**	**0.03 ***	0.1 U	0.1 U	0.2 U	0.2 U	**44.7**	**1.0**	0.2 U	**1.4**
Mercury	0.025	µg/L	–	–	**0.0021 ***	**0.00631 J**	**0.0127 J**	**0.0109**	0.04 U*	**0.991**	**0.0180**	**0.211**	0.001 U*	**0.00083 J**	**0.00035 J**	**0.00013 J**	**0.00026 J**	**0.133**	**0.0282**	**0.00107**	**0.00381**
Nickel	8.2	µg/L	–	–	–	**6**	**1.1**	**12**	–	**8**	**2.5**	**11**	–	**1.4**	**1.6**	1 U	**1**	**16.8**	**1.7**	5 U	**1.9**
Silver	1.9	µg/L	–	–	0.02 U*	0.5 U	0.2 U	2 U	**0.04 ***	1 U	0.2 U	2 U	0.02 U*	0.2 U	0.2 U	0.5 UJ	0.5 U	0.5 U	0.2 UJ	0.5 U	0.2 U
Zinc	81	µg/L	–	–	**4.1 ***	**30 J**	**8**	40 U	**32.3 ***	**160**	**420**	**140**	**0.7 ***	4 UJ	4 U	10 U	10 U	**84**	**7**	4 U	10 U
Dissolved Metals																					
Arsenic	5	µg/L	–	–	–	**2 J**	**6.2**	5 U	**6.62 ***	**3 J**	**1.8**	5 U	–	**1.0**	**0.6**	**1.7**	1 U	**2.9**	**2.7**	**3**	**1.7**
Cadmium	8.8	µg/L	–	–	–	0.2 U	0.1 U	1 U	0.01 U*	0.5 U	0.1 U	1 U	–	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U
Chromium	27	µg/L	–	–	–	1 U	**0.6**	5 U	**2.71 ***	2 U	**1.5**	5 U	–	1 U	2 U	1 U	1 U	**1.8**	**2**	2 U	2 U
Copper	2.4	µg/L	–	–	–	**4**	**4.8**	**6**	**1.81 ***	**4**	**4.3**	5 U	–	0.5 U	0.5 U	1 U	1 U	**0.7**	**0.7**	1 U	1 U
Lead	8.1	µg/L	–	–	–	**0.4**	**0.2 J**	1 U	**0.28 ***	0.5 U	**0.7**	**10**	–	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	**0.3**	0.2 U	**0.3**
Mercury	0.025	µg/L	–	–	–	**0.00165**	**0.00776 J**	**0.00186**	0.2 U*	**0.00238**	**0.00243**	**0.0211**	–	**0.00046 J**	**0.00065 J**	**0.00022 J**	**0.00024 J**	**0.00046 J**	**0.00235**	**0.00029 J**	**0.00149**
Nickel	8.2	µg/L	–	–	–	**6**	**3.0 J**	**13**	–	**7**	**2.0**	**12**	–	**1.4**	**3.5**	**5**	1 U	**1.4**	**4.0**	5 U	**1.7**
Silver	1.9	µg/L	–	–	–	0.5 U	0.2 U	2 U	0.01 U*	1 U	0.2 U	2 U	–	0.2 UJ	0.2 U	0.5 UJ	0.5 U	0.2 UJ	0.2 UJ	0.5 U	0.2 U
Zinc	81	µg/L	–	–	–	**10**	**5**	40 U	**6.3 ***	20 U	**24**	**80**	–	4 U	**10**	10 U	10 U	4 U	**6**	4 U	10 U

Parameter	Screening Level	Unit	MW-3 7/16/2008	MW-3 8/16/2013	MW-3 12/16/2013	MW-3 3/19/2014	MW-3 7/16/2014	MW-4 7/16/2008	MW-4 8/16/2013	MW-4 12/16/2013	MW-4 3/17/2014	MW-4 7/16/2014	MW-5 7/17/2008	MW-5 8/15/2013	MW-5 12/26/2013	MW-5 3/17/2014	MW-5 7/17/2014	MW-8 7/17/2008	MW-8 8/14/2013	MW-8 12/19/2013	MW-8 3/19/2014
PCBs																					
PCB-aroclor 1242	0.03	µg/L	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.023 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U
PCB-aroclor 1248	0.03	µg/L	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	0.015 U	0.025 U	0.025 U	0.015 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U
PCB-aroclor 1254	0.01	µg/L	0.02 U*	0.010 U	0.010 U	0.010 U	**0.0090 J**	0.02 U*	**0.016**	**0.051**	**0.044**	**0.030**	0.024 U*	**0.011**	0.010 U	0.010 U	**0.0080 J**	0.02 U*	0.010 U	0.010 U	0.010 U
PCB-aroclor 1260	0.015	µg/L	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	**0.0070 J**	**0.026**	**0.034**	**0.025**	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U
Total PCBs	0.01	µg/L	0.039 UT	0.01 UT	0.025 UT	0.01 UT	**0.009 T**	0.04 UT	**0.023 T**	**0.077 T**	**0.078 T**	**0.055 T**	0.04 UT	**0.011 T**	0.015 UT	0.01 UT	**0.008 T**	0.04 UT	0.01 UT	0.01 UT	0.01 UT
Pesticides																					
2,4'-DDD	0.0005	µg/L	0.00049 U*	0.00050 U	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	**0.00028 J**	0.00050 U	0.00055 U	0.00049 U	0.0026 U*	**0.00039 J**	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	0.00050 U	0.00050 U	0.00050 U
2,4'-DDE	0.0005	µg/L	0.00049 U*	0.00050 U	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.0005 U*	0.00049 U	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	0.00050 U	0.00050 U	0.00050 U
2,4'-DDT	0.0005	µg/L	0.00049 U*	0.00050 U	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.0005 U*	0.00049 U	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	0.00050 U	0.00050 U	0.00050 U
4,4'-DDD	0.0005	µg/L	0.00049 U*	**0.00019 J**	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	**0.00098**	**0.0014**	**0.0018**	**0.0012**	0.0033 U*	**0.0017**	**0.00019 J**	0.00050 U	0.0005 U	0.0005 U*	**0.00027 J**	0.00050 U	**0.00016 J**
4,4'-DDE	0.0005	µg/L	0.00049 U*	**0.00011 J**	0.00050 U	**0.000083 J**	0.0005 U	0.0005 U*	**0.00046 J**	**0.00096**	**0.0011**	**0.001**	0.0005 U*	**0.00054**	**0.00010 J**	0.00050 U	0.0005 U	0.0005 U*	**0.00013 J**	0.00050 U	0.00050 U
4,4'-DDT	0.0005	µg/L	0.00049 U*	0.00050 U	0.00050 U	**0.00060**	0.0005 U	0.002 U*	0.00049 U	0.00050 U	0.00050 U	**0.00038 J**	0.0014 U*	0.00049 U	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	**0.00014 J**	0.00050 U	0.00050 U
Aldrin	0.001	µg/L	0.0005 U*	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.0005 U*	0.0010 UJ	0.0010 U	0.0010 U	0.001 U	0.00055 U*	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.0005 U*	0.0010 U	0.0010 U	0.0010 U
Alpha-BHC	0.0049	µg/L	–	0.00050 U	0.00050 U	0.00050 U	0.0005 U	–	0.00049 UJ	0.00050 U	0.00050 U	0.00049 U	–	0.00049 U	0.00050 U	0.00050 U	0.0005 U	–	0.00050 U	0.00050 U	0.00050 U
Beta-BHC	0.017	µg/L	–	**0.00019 J**	0.00050 U	0.00050 U	0.0005 U	–	0.00049 U	0.00050 U	0.00050 U	0.00049 U	–	0.00097 U	0.00050 U	0.00050 U	0.0005 U	–	0.00099 U	0.00050 U	0.00050 U
Chlorpyrifos	0.0056	µg/L	–	0.00050 U	0.00050 U	0.00050 U	0.00049 UJ	–	0.00049 U	0.00050 U	0.00050 U	0.00049 U	–	0.00049 U	0.00050 U	0.00050 U	0.0005 U	–	0.00050 U	0.00050 U	0.00050 U
Delta-BHC	0.0414	µg/L	–	0.00050 U	0.00050 UJ	0.00050 U	0.0005 U	–	0.00049 U	0.00050 UJ	0.00050 U	0.00049 U	–	0.00049 U	0.00050 U	0.00050 U	0.0005 U	–	0.00050 U	0.00050 UJ	0.00050 U
Dieldrin	0.005	µg/L	**0.0041 J***	0.0050 U	0.0050 U	0.0050 U	0.005 U	0.0005 U*	0.0049 U	0.0050 U	0.0050 U	0.0049 U	**0.004 J***	0.0049 U	0.0050 U	0.0050 U	0.005 U	0.0011 U*	0.0050 U	0.0050 U	0.0050 U
Endosulfan II	0.0087	µg/L	–	0.0020 U	0.0020 U	0.0050 U	0.002 U	–	0.0020 U	0.0020 U	0.0050 U	0.002 U	–	0.0020 U	0.0020 U	0.0050 U	0.002 U	–	0.0020 U	0.0020 U	0.0050 U
Endosulfan Sulfate	0.0087	µg/L	–	0.00050 U	0.00050 U	0.00050 U	0.0005 U	–	0.00049 U	0.00050 U	0.00050 U	**0.00051**	–	0.00049 U	0.00050 U	0.00050 U	0.0005 U	–	0.00050 U	0.00050 U	0.00050 U
Endrin	0.0023	µg/L	–	0.0020 U	0.0050 U	**0.0011 J**	0.002 U	–	0.0020 U	0.0050 U	0.0020 U	0.002 U	–	0.0020 U	0.0050 U	0.0020 U	0.002 U	–	0.0020 U	0.0050 U	0.0020 U
Endrin Ketone	0.0023	µg/L	–	0.0013 U	0.00099 U	0.00099 U	0.00099 U	–	0.00097 U	0.0010 U	0.00099 U	0.00098 U	–	**0.00040 J**	0.00099 U	0.00099 U	0.00099 U	–	0.00099 U	0.00099 U	0.00099 U
Heptachlor	0.001	µg/L	0.00049 U*	0.00099 U	0.00099 U	**0.00013 J**	0.00099 U	0.0005 U*	0.00097 U	0.0010 U	0.00099 U	**0.00016 J**	0.0005 U*	**0.00013 J**	0.00099 U	0.00099 U	0.00099 U	0.0005 U*	**0.00023 J**	0.00099 U	0.00099 U
Heptachlor Epoxide	0.001	µg/L	–	0.00099 U	0.00099 U	**0.00070 J**	0.00099 U	–	0.00097 U	0.0010 U	0.00099 U	0.00098 U	–	0.00097 U	0.00099 U	0.00099 U	0.00099 U	–	0.00099 U	0.00099 U	0.00099 U
Hexachlorobenzene	0.001	µg/L	0.2 U*	0.00050 U	0.00099 U	0.0099 U	0.0005 U	0.2 U*	0.00049 U	0.0010 U	0.0099 U	0.00049 U	0.2 U*	0.00049 U	0.00099 U	0.0099 U	0.0005 U	0.2 U*	0.00050 U	0.00099 U	0.0099 U
Isodrin	NE	µg/L	–	0.0020 U	0.0020 U	0.0020 U	0.002 U	–	0.0020 UJ	0.0020 U	0.0020 U	0.002 U	–	0.0020 U	0.0020 U	0.0020 U	0.002 U	–	0.0020 U	0.0020 U	0.0020 U
Lindane (Gamma-BHC)	0.063	µg/L	0.00049 U*	0.00050 U	0.00050 U	**0.00063**	0.0005 U	0.0005 U*	0.00049 UJ	0.00050 U	0.00050 U	0.00049 U	0.00079 U*	0.00097 U	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	0.00099 U	0.00050 U	0.00050 U
Methoxychlor	0.03	µg/L	–	0.00050 U	0.00050 U	0.00050 U	0.0005 U	–	0.00049 U	0.00050 U	0.00050 U	**0.0011**	–	0.00049 U	0.00050 U	0.00050 U	0.0005 U	–	**0.00015 J**	0.00050 U	0.00050 U
Mirex	0.001	µg/L	–	0.00099 U	0.00099 U	0.000099 U	0.00099 U	–	0.00097 U	0.0010 U	**0.000095 J**	**0.00011 J**	–	0.00097 U	0.00099 U	0.00099 U	0.00099 U	–	**0.00017 J**	0.00099 U	0.000096 U
trans-Nonachlor	NE	µg/L	–	0.00050 U	0.00050 U	0.00050 U	0.0005 U	–	0.00049 U	0.00050 U	0.00050 U	0.00049 U	–	0.00049 U	0.00050 U	0.00050 U	0.0005 U	–	0.00050 U	0.00050 U	0.00050 U
alpha-Chlordane (cis)	0.00059	µg/L	0.00049 U*	0.00050 U	0.00050 U	**0.00065**	0.0005 U	0.00058 U*	0.00049 U	0.00050 U	0.00050 U	**0.00021 J**	0.0005 U*	**0.00023 J**	0.00050 U	0.00050 U	0.0005 U	0.0005 U*	0.00050 U	0.00050 U	0.00050 U
gamma-Chlordane	0.00059	µg/L	0.00049 U*	0.00050 U	0.00050 U	0.00063 U	0.0005 U	0.0005 U*	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.0011 U*	**0.00030 J**	0.00050 U	0.00050 U	0.0005 U	0.00059 U*	0.00050 U	0.00050 U	0.00050 U
Total Metals																					
Arsenic	5	µg/L	5 U*	**3.3**	**1.1**	**1.0**	**1.2**	5 U*	**15.0**	**5.5**	**10.6**	**7.1**	5 U*	**3.4**	**2.4**	**1.4**	**1.8**	5 U*	**2.2**	2 U	**4**
Cadmium	8.8	µg/L	0.02 U*	0.1 U	0.1 U	0.1 U	0.1 U	0.02 U*	0.1 U	0.1 U	0.5 U	0.1 U	**0.04 ***	0.1 U	0.1 U	0.5 U	0.1 U	0.02 U*	0.2 U	0.1 U	0.5 U
Chromium	27	µg/L	**3.5 ***	**1.5**	**2.0**	**2**	2 U	**2.2 ***	1 U	**1.2**	2 U	2 U	**15.1 ***	**6.7 J**	**6**	**3**	**4**	**1.3 ***	1 U	0.5 U	2 U
Copper	2.4	µg/L	**2 ***	**1.8**	**0.7**	0.5 U	2 U	**0.3 ***	0.5 U	0.5 U	2 U	2 U	**1.6 ***	**3.9**	**2.8**	**3**	1 U	**0.5 ***	**1**	2 U	2 U
Lead	8.1	µg/L	**0.31 ***	**0.3**	**0.2**	**0.1**	0.1 UJ	**0.11 ***	**4.5**	**1.6**	**3.2**	**0.9 J**	**1.4 ***	**2.6**	**1.0**	0.5 U	0.2 U	**1.61 ***	**0.4**	0.1 U	**1.6**
Mercury	0.025	µg/L	**0.0026 ***	**0.00146**	**0.00101**	**0.00089 J**	**0.00058**	0.001 U*	**0.00245**	**0.00109**	**0.00188**	**0.00144**	**0.005 ***	**0.00389**	**0.00656**	**0.00259**	**0.00116**	**0.0025 ***	**0.00094 J**	**0.00013 J**	**0.00299**
Nickel	8.2	µg/L	–	**1.3**	**0.7**	**1.3**	**1.2**	–	**1.1**	**2.2**	**4**	**2.5**	–	**3.6**	**2.4**	**4**	**2.1**	–	**3**	**4**	**3**
Silver	1.9	µg/L	0.02 U*	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.02 U*	0.2 U	0.2 U	1 UJ	0.2 UJ	**0.04 ***	0.2 U	0.2 U	1 UJ	0.2 U	0.02 U*	0.5 U	0.2 U	1 UJ
Zinc	81	µg/L	**6 ***	**15**	**6**	**6**	4 U	**1.1 ***	**6**	**5**	20 U	4 U	**13.2 ***	**32 J**	**410**	20 U	10 U	**6.5 ***	10 U	**5**	20 U
Dissolved Metals																					
Arsenic	5	µg/L	–	**2.8**	**1.0**	**1.0**	**1.1**	–	**14.2**	**5.2**	**9.1**	**6.2**	–	**2.1**	**1.6**	**1.0**	**1.1**	–	**2.0**	2 U	2 U
Cadmium	8.8	µg/L	–	0.1 U	0.1 U	0.1 U	0.1 U	–	0.1 U	0.1 U	0.2 U	0.1 U	–	0.1 U	0.1 U	0.2 U	0.1 U	–	0.2 U	0.1 U	0.5 U
Chromium	27	µg/L	–	1 U	2 U	**2**	2 U	–	1 U	2 U	**1**	2 U	–	**4.1**	**4**	**2**	**3**	–	1 U	0.5 U	2 U
Copper	2.4	µg/L	–	0.5 U	0.5 U	0.5 U	2 U	–	0.5 U	0.5 U	**0.5**	2 U	–	0.5 U	0.5 U	0.5 U	1 U	–	**1**	2 U	2 U
Lead	8.1	µg/L	–	0.1 U	0.1 U	0.1 U	0.5 U	–	**3.3**	**1.2**	**1.8**	**0.6**	–	0.1 U	0.1 U	0.2 U	0.2 U	–	0.2 U	0.1 U	0.5 U
Mercury	0.025	µg/L	–	**0.00046 J**	**0.00041 J**	**0.00079 J**	**0.00038 J**	–	**0.00173**	**0.00084 J**	**0.00083 J**	**0.00062**	–	**0.00192**	**0.00111**	**0.00041 J**	**0.00064**	–	**0.00136**	**0.00011 J**	**0.00023 J**
Nickel	8.2	µg/L	–	**1.1**	**0.7**	**3.2**	**1.1**	–	**1.2**	**4.8**	**5.8**	**2.5**	–	**1.8**	**3.7**	**2.4**	**2.0**	–	**3**	**5**	**5**
Silver	1.9	µg/L	–	0.2 U	0.2 U	0.2 UJ	0.2 UJ	–	0.2 U	0.2 U	0.5 UJ	0.2 UJ	–	0.2 UJ	0.2 U	0.5 UJ	0.2 U	–	0.5 U	0.2 U	1 UJ
Zinc	81	µg/L	–	4 U	4 U	4 U	20 U	–	4 U	**4**	10 U	20 U	–	4 U	**5**	10 U	10 U	–	10 U	**6**	20 U

Parameter	Screening Level	Unit	MW-8 7/14/2014	MW-9 7/17/2008	MW-9 8/15/2013	MW-9 12/16/2013	MW-9 3/19/2014	MW-9 7/14/2014	MW-10 7/17/2008	MW-10 8/16/2013	MW-10 12/16/2013	MW-10 3/19/2014	MW-10 7/15/2014	MW-11 7/17/2008	MW-11 8/15/2013	MW-11 12/26/2013	MW-11 3/19/2014	MW-11 7/14/2014	MW-12 7/16/2008	MW-12 8/16/2013	MW-12 12/16/2013
PCBs																					
PCB-aroclor 1242	0.03	µg/L	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.11 ***	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	**0.1 ***	0.010 U	0.010 U
PCB-aroclor 1248	0.03	µg/L	0.010 U	**0.034 ***	**0.010 J**	0.015 U	**0.016**	**0.013**	0.02 U*	**0.021**	0.020 U	**0.011**	**0.015**	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	**0.018**	**0.018**
PCB-aroclor 1254	0.01	µg/L	**0.0060 J**	0.025 U*	**0.0080 J**	**0.037**	**0.032**	**0.024**	0.02 U*	0.010 U	**0.026**	**0.0090 J**	**0.014**	0.02 U*	0.010 U	0.010 U	0.010 U	**0.0080 J**	0.02 U*	**0.012**	**0.017**
PCB-aroclor 1260	0.015	µg/L	0.010 U	0.02 U*	0.010 U	**0.021**	**0.016**	**0.0080 J**	0.02 U*	0.010 U	**0.011**	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U	0.010 U	0.010 U	0.02 U*	0.010 U	0.010 U
Total PCBs	0.01	µg/L	**0.006 T**	**0.034 T**	**0.018 T**	**0.058 T**	**0.064 T**	**0.045 T**	**0.11 T**	**0.021 T**	**0.037 T**	**0.02 T**	**0.029 T**	0.04 UT	0.01 UT	0.01 UT	0.01 UT	**0.008 T**	**0.1 T**	**0.03 T**	**0.035 T**
Pesticides																					
2,4'-DDD	0.0005	µg/L	0.00050 U	0.0023 U*	0.00049 U	**0.00016 J**	0.00050 U	0.00050 U	0.0005 U*	**0.00030 J**	**0.00027 J**	0.00050 U	0.0005 U	0.0005 U*	0.00049 U	0.00049 U	0.00050 U	0.00050 U	0.00079 U*	**0.00031 J**	**0.00030 J**
2,4'-DDE	0.0005	µg/L	0.00050 U	0.00049 U*	0.00049 U	0.00050 U	**0.00011 J**	0.00050 U	0.0005 U*	**0.00023 J**	**0.00025 J**	**0.00012 J**	0.0005 U	0.0005 U*	**0.00013 J**	0.00049 U	0.00050 U	0.00050 U	0.0005 U*	0.00050 U	0.00049 U
2,4'-DDT	0.0005	µg/L	0.00050 U	0.0016 U*	0.00049 U	0.00050 U	0.00050 U	0.00050 U	0.00062 U*	0.00050 U	0.00049 U	0.00050 U	0.0005 U	0.0005 U*	0.00049 U	0.00049 U	0.00050 U	0.00050 U	**0.0015 ***	0.00050 U	0.00049 U
4,4'-DDD	0.0005	µg/L	0.00050 U	0.00049 U*	**0.00019 J**	**0.00029 J**	**0.00025 J**	**0.00022 J**	0.0005 U*	**0.00032 J**	0.00049 U	**0.00025 J**	**0.00025 J**	0.0005 U*	0.00049 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U*	**0.00078**	**0.00081**
4,4'-DDE	0.0005	µg/L	**0.000091 J**	0.00049 U*	**0.00058**	**0.0016**	**0.0011**	**0.00067**	0.0005 U*	**0.0011**	0.00079 U	**0.00040 J**	**0.00047 J**	0.0005 U*	**0.00016 J**	**0.00012 J**	**0.000081 J**	**0.00015 J**	0.0005 U*	**0.00059**	**0.00047 J**
4,4'-DDT	0.0005	µg/L	0.00050 U	0.00049 U*	0.00049 U	0.00050 U	0.00059 U	0.00050 U	0.0005 U*	0.00050 U	0.00049 U	0.00050 U	0.0005 U	0.0005 U*	0.00049 U	0.00049 U	0.00050 U	0.00050 U	**0.0024 J***	0.00050 U	0.00049 U
Aldrin	0.001	µg/L	0.0010 U	0.00057 U*	0.0010 UJ	0.0010 UJ	0.0010 U	–	0.0011 U*	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.0005 U*	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00055 U*	0.0010 U	0.0010 U
Alpha-BHC	0.0049	µg/L	0.00050 U	–	0.00049 U	0.00050 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U	0.00050 U	0.0005 U	–	**0.00021 J**	0.00049 U	0.00050 U	**0.00020 J**	–	0.00050 U	0.00049 U
Beta-BHC	0.017	µg/L	0.00050 U	–	0.00097 U	0.00050 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U	0.00050 U	0.0005 U	–	0.00097 U	0.00049 U	0.00050 U	0.00050 U	–	0.00099 U	0.00049 U
Chlorpyrifos	0.0056	µg/L	0.00050 U	–	**0.0014**	0.00050 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U	0.00050 U	0.00049 UJ	–	0.00049 U	0.00049 U	0.00050 U	0.00050 U	–	**0.0093**	0.00049 U
Delta-BHC	0.0414	µg/L	0.00050 U	–	0.00049 U	0.00050 UJ	0.00050 U	0.00050 U	–	0.00050 U	0.00049 UJ	0.00050 U	0.0005 U	–	0.00049 U	0.00049 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 UJ
Dieldrin	0.005	µg/L	0.0050 U	0.0012 U*	0.0049 U	0.0050 U	0.0050 U	0.0050 U	0.0005 U*	0.0050 U	0.0049 U	0.0050 U	0.005 U	0.0005 U*	0.0049 U	0.0049 U	0.0050 U	0.0050 U	0.0015 U*	0.0050 U	0.0049 U
Endosulfan II	0.0087	µg/L	0.0020 U	–	0.0020 U	0.0020 U	0.0050 U	0.0020 U	–	0.0020 U	0.0020 U	0.0050 U	0.002 U	–	0.0020 U	0.0020 U	0.0050 U	0.0020 U	–	0.0020 U	0.0020 U
Endosulfan Sulfate	0.0087	µg/L	0.00050 U	–	0.00049 U	0.00050 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U	0.00050 U	0.0005 U	–	0.00049 U	0.00049 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U
Endrin	0.0023	µg/L	0.0020 U	–	0.0020 U	0.0050 U	0.0020 U	0.0020 U	–	0.0020 U	0.0049 U	0.0020 U	0.002 U	–	0.0020 U	0.0049 U	0.0020 U	0.0020 U	–	0.0020 U	0.0049 U
Endrin Ketone	0.0023	µg/L	0.0010 U	–	0.00097 U	0.00099 U	0.00099 U	0.0010 U	–	0.00099 U	0.00098 U	0.00099 U	0.00099 U	–	0.00097 U	0.00097 U	0.00099 U	0.0010 U	–	0.00099 U	0.00098 U
Heptachlor	0.001	µg/L	0.0010 U	0.002 U*	**0.00017 J**	0.00099 U	**0.00012 J**	0.0010 U	**0.0013 J***	0.00099 U	0.00098 U	**0.00017 J**	0.00099 U	0.0005 U*	**0.00036 J**	0.00097 U	**0.00017 J**	0.0010 U	0.0005 U*	**0.00019 J**	0.00098 U
Heptachlor Epoxide	0.001	µg/L	0.0010 U	–	0.00097 U	0.00099 U	**0.00063 J**	0.0010 U	–	0.00099 U	0.00098 U	0.00099 U	0.00099 U	–	**0.00025 J**	0.00097 U	0.00099 U	0.0010 U	–	0.00099 U	0.00098 U
Hexachlorobenzene	0.001	µg/L	0.00050 U	0.2 U*	0.00049 U	0.00099 U	0.0099 U	0.00050 U	0.2 U*	0.00050 U	0.00098 U	0.0099 U	0.0005 U	0.2 U*	0.00049 U	0.00097 U	0.0099 U	0.00050 U	0.19 U*	0.00050 U	0.00098 U
Isodrin	NE	µg/L	0.0020 U	–	0.0020 UJ	0.0020 UJ	0.0020 U	–	–	0.0020 U	0.0020 U	0.0020 U	0.002 U	–	0.0020 U	0.0020 U	0.0020 U	0.0020 U	–	0.0020 U	**0.0011 J**
Lindane (Gamma-BHC)	0.063	µg/L	0.00050 U	0.00049 U*	0.00097 U	0.00050 U	0.00050 U	0.00050 U	0.0005 U*	0.00050 U	0.00049 U	0.00050 U	0.0005 U	0.0005 U*	0.00097 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U*	0.00099 U	0.00049 U
Methoxychlor	0.03	µg/L	**0.00016 J**	–	0.00049 U	0.00050 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U	0.00050 U	0.0005 U	–	0.00049 U	0.00049 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U
Mirex	0.001	µg/L	0.0010 U	–	0.00097 U	0.00099 U	0.00099 U	**0.000099 J**	–	**0.00013 J**	0.00098 U	0.00011 U	0.00099 U	–	0.00097 U	0.00097 U	0.000099 U	**0.00011 J**	–	**0.000099 J**	**0.000098 J**
trans-Nonachlor	NE	µg/L	0.00050 U	–	0.00049 U	0.00050 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U	0.00050 U	0.0005 U	–	**0.00017 J**	0.00049 U	0.00050 U	0.00050 U	–	0.00050 U	0.00049 U
alpha-Chlordane (cis)	0.00059	µg/L	0.00050 U	0.0015 U*	0.00049 U	0.00050 U	**0.00042 J**	0.00050 U	0.00099 U*	0.00050 U	0.00049 U	0.00050 U	0.0005 U	0.0011 U*	**0.00020 J**	0.00049 U	0.00050 U	0.00050 U	0.0005 U*	0.00050 U	0.00049 U
gamma-Chlordane	0.00059	µg/L	0.00050 U	0.00049 U*	0.00049 U	0.00050 U	**0.00047 J**	0.00050 U	0.0005 U*	0.00050 U	0.00049 U	**0.00028 J**	0.0005 U	0.0005 U*	**0.00022 J**	0.00049 U	0.00050 U	0.00050 U	0.0005 U*	0.00050 U	0.00049 U
Total Metals																					
Arsenic	5	µg/L	**7**	**5.4 ***	**4**	**3**	**6.1**	**9**	5 U*	1 U	**1.6**	2 U	2 U	5 U*	1 U	**1.1**	**1.7**	**5**	5 U*	**1.3**	**1.1**
Cadmium	8.8	µg/L	1 U	**0.03 ***	0.5 U	0.1 U	0.1 U	1 U	**0.03 ***	0.2 U	0.1 U	0.5 U	0.5 U	0.02 U*	0.5 U	0.1 U	0.1 U	1 U	0.02 U*	0.1 U	0.1 U
Chromium	27	µg/L	5 U	**1.2 ***	2 U	0.5 U	0.5 U	5 U	**0.7 ***	1 U	0.5 U	2 U	2 U	**0.5 ***	2 UJ	0.5 U	0.5 U	5 U	**1.3 ***	**2 J**	**1.1**
Copper	2.4	µg/L	5 U	**0.9 ***	**4**	**2.3**	**0.9**	5 U	**0.3 ***	1 U	**1.1**	2 U	2 U	**0.9 ***	**5**	**3.0**	**5.9**	**6**	**0.5 ***	**0.6**	0.5 U
Lead	8.1	µg/L	1 U	**0.76 ***	0.5 U	0.1 U	0.1 U	1 U	**0.1 ***	0.2 U	0.1 U	0.5 U	0.5 U	**0.03 ***	0.5 U	0.1 U	**0.1**	1 U	**0.5 ***	**0.3**	0.1 U
Mercury	0.025	µg/L	**0.00016 J**	**0.0071 ***	**0.00066 J**	**0.00035 J**	**0.00050 J**	**0.00038 J**	**0.001 ***	**0.00017 J**	**0.00057 J**	**0.00038 J**	**0.00027 J**	**0.0012 ***	**0.00149**	**0.00191**	**0.00386**	**0.00182**	**0.0029 ***	**0.00176**	**0.00065 J**
Nickel	8.2	µg/L	5 U	–	**8**	**3.3**	**1.4**	**15**	–	**5**	**2.1**	2 U	**4**	–	**6**	**1.0**	**0.5**	**10**	–	1.7	1.7
Silver	1.9	µg/L	2 U	0.02 U*	1 U	0.2 U	0.2 UJ	2 U	0.02 U*	0.5 U	0.2 U	1 UJ	1 U	0.02 U*	1 U	0.2 U	0.2 UJ	2 U	0.02 U*	0.2 U	0.2 U
Zinc	81	µg/L	40 U	**4.6 ***	20 UJ	**6**	4 U	40 U	**1.3 ***	10 UJ	**4**	20 U	20 U	**8.3 ***	**20 J**	**14**	4 U	40 U	**2.5 ***	**13 J**	4 U
Dissolved Metals																					
Arsenic	5	µg/L	5 U	–	**3**	**1**	**5.3**	5 U	–	1 U	1 U	**2**	2 U	–	1 U	**1.6**	**1.5**	**5**	–	**1.2**	**1.1**
Cadmium	8.8	µg/L	1 U	–	0.5 U	0.1 U	0.1 U	1 U	–	0.2 U	0.1 U	0.5 U	0.5 U	–	0.5 U	0.1 U	0.1 U	1 U	–	0.1 U	0.1 U
Chromium	27	µg/L	5 U	–	2 U	0.5 U	0.5 U	5 U	–	1 U	0.5 U	2 U	2 U	–	2 U	0.5 U	0.5 U	5 U	–	1 U	2 U
Copper	2.4	µg/L	5 U	–	**4**	**2.0**	**0.6**	5 U	–	1 U	**1.1**	2 U	2 U	–	**7**	**3.7**	**5.9**	**9**	–	0.5 U	0.5 U
Lead	8.1	µg/L	1 U	–	0.5 U	0.1 U	0.1 U	1 U	–	0.2 U	0.1 U	0.5 U	0.5 U	–	0.5 U	0.1 U	0.1 U	1 U	–	0.1 U	0.1 U
Mercury	0.025	µg/L	**0.00010 J**	–	**0.00031 J**	**0.00015 J**	**0.00025 J**	**0.00025 J**	–	**0.00028 J**	**0.00034 J**	**0.00028 J**	**0.00031 J**	–	**0.00135**	**0.00152**	**0.00376**	**0.00241**	–	**0.00088 J**	**0.00040 J**
Nickel	8.2	µg/L	5 U	–	**8**	**3.2**	**2.7**	**18**	–	**5**	**2.5**	**4**	**4**	–	**6**	**2.3**	**0.6**	**11**	–	**1.6**	**2.9**
Silver	1.9	µg/L	2 U	–	1 UJ	0.2 U	0.2 UJ	2 U	–	0.5 UJ	0.2 U	1 UJ	1 U	–	1 UJ	0.2 U	0.2 UJ	2 U	–	0.2 UJ	0.2 U
Zinc	81	µg/L	40 U	–	20 U	**6**	4 U	40 U	–	10 U	**4**	20 U	20 U	–	**20 J**	**7**	4 U	40 U	–	**5 J**	4 U

Parameter	Screening Level	Unit	MW-12 3/19/2014	MW-12 7/15/2014	MW-13 8/14/2013	MW-13 12/17/2013	MW-13 3/20/2014	MW-13 7/14/2014	MW-14 8/19/2013	MW-14 12/17/2013	MW-14 3/18/2014	MW-14 7/14/2014	MW-15 8/15/2013	MW-15 12/26/2013	MW-15 3/20/2014	MW-15 7/15/2014	MW-16 8/19/2013	MW-16 12/16/2013	MW-16 3/17/2014	MW-16 7/17/2014	MW-17 8/19/2013
PCBs																					
PCB-aroclor 1242	0.03	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
PCB-aroclor 1248	0.03	µg/L	**0.0090 J**	**0.015**	**0.034**	**0.13**	**0.014**	**0.018**	0.010 U	0.010 U	0.010 U	0.010 U	**0.0090 J**	0.010 U	0.010 U	0.010 U	0.035 U	0.010 U	0.010 U	0.010 U	**0.38**
PCB-aroclor 1254	0.01	µg/L	**0.0080 J**	**0.014**	**0.037**	**0.20**	**0.015**	**0.024**	0.010 U	0.010 U	0.010 U	0.010 U	**0.0080 J**	**0.023**	0.010 U	**0.0080 NJ**	**0.10**	**0.015**	**0.012**	**0.011**	**0.34**
PCB-aroclor 1260	0.015	µg/L	0.010 U	0.010 U	**0.015**	**0.088**	**0.0090 J**	**0.010**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.011**	0.010 U	0.010 U	**0.062**	0.010 U	0.010 U	0.010 U	**0.15**
Total PCBs	0.01	µg/L	**0.017 T**	**0.029 T**	**0.086 T**	**0.418 T**	**0.038 T**	**0.052 T**	0.01 UT	0.02 UT	0.01 UT	0.01 UT	**0.017 T**	**0.034 T**	0.01 UT	**0.008 T**	**0.162 T**	**0.015 T**	**0.012 T**	**0.011 T**	**0.87 T**
Pesticides																					
2,4'-DDD	0.0005	µg/L	0.00050 U	**0.00018 J**	**0.0015**	**0.0060**	**0.00054**	**0.00072**	**0.00014 J**	**0.00012 J**	0.00050 U	0.00050 U	**0.00027 J**	**0.00023 J**	0.00050 U	0.0005 U	**0.0020**	**0.00019 J**	0.00049 U	**0.00019 J**	**0.0072 J**
2,4'-DDE	0.0005	µg/L	0.00050 U	0.0005 U	**0.00040 J**	**0.00093**	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	**0.00014 J**	0.00050 U	0.00050 U	0.0005 U	**0.00087**	0.00050 U	0.00049 U	0.0005 U	**0.00063**
2,4'-DDT	0.0005	µg/L	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00049 U
4,4'-DDD	0.0005	µg/L	0.00050 U	**0.00053**	**0.0058**	**0.027**	**0.0023**	**0.0028**	**0.00030 J**	**0.00030 J**	0.00050 U	0.00050 U	**0.0020**	**0.0014**	**0.00021 J**	0.0005 U	**0.016**	0.00087 U	**0.00086**	**0.00073**	**0.031 J**
4,4'-DDE	0.0005	µg/L	**0.00021 J**	**0.00026 J**	**0.0030**	**0.012**	**0.00083**	**0.0012**	**0.00028 J**	**0.00022 J**	0.00050 U	**0.00011 J**	**0.0010**	**0.00052**	**0.000093 J**	**0.00013 J**	**0.01**	**0.00060**	**0.00078**	**0.00059**	**0.018 J**
4,4'-DDT	0.0005	µg/L	**0.00094**	0.0005 U	**0.00025 J**	0.00050 U	**0.00038 J**	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U	**0.00030 J**	0.00050 U	0.00049 U	0.0005 U	0.00049 U
Aldrin	0.001	µg/L	0.0010 U	0.001 U	**0.00067 J**	0.0010 UJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.0010 U
Alpha-BHC	0.0049	µg/L	0.00050 U	0.0005 U	**0.00019 J**	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U	**0.00016 J**	0.00050 U	0.00049 U	0.0005 U	0.00049 U
Beta-BHC	0.017	µg/L	0.00050 U	0.0005 U	**0.00021 J**	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	**0.00021 J**	0.00050 U	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00049 U
Chlorpyrifos	0.0056	µg/L	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	**0.00057**	0.00050 U	0.00049 U	0.00050 U	0.00050 U	**0.00053**	0.00050 U	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00049 U
Delta-BHC	0.0414	µg/L	0.00050 U	0.0005 U	0.00065 U	0.00099 UJ	0.00049 U	0.00050 U	0.00050 U	0.00049 UJ	0.00050 U	0.00050 U	**0.00032 J**	0.00050 U	0.00050 U	0.0005 U	0.0013 U	0.00050 UJ	0.00049 U	0.0005 U	0.00061 U
Dieldrin	0.005	µg/L	0.0050 U	0.005 U	0.0049 U	0.0050 U	0.0049 U	0.0050 U	0.0050 U	0.0049 U	0.0050 U	0.0050 U	0.0049 U	0.0050 U	0.0050 U	0.005 U	0.0049 U	0.0050 U	0.0049 U	0.005 U	0.0049 U
Endosulfan II	0.0087	µg/L	0.0050 U	0.002 U	0.0020 U	0.0020 U	0.0049 U	0.0020 U	0.0020 U	0.0020 U	0.0050 U	0.0020 U	0.0020 U	0.0020 U	0.0050 U	0.002 U	0.0020 U	0.0020 U	0.0049 U	0.002 U	0.0020 U
Endosulfan Sulfate	0.0087	µg/L	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00049 U
Endrin	0.0023	µg/L	0.0020 U	0.002 U	**0.00067 J**	0.0050 U	0.0020 U	**0.00082 J**	0.0020 U	0.0049 U	0.0020 U	0.0020 U	0.0020 U	0.0050 U	0.0020 U	0.002 U	0.0020 U	0.0050 U	0.0020 U	**0.0012 J**	0.0020 U
Endrin Ketone	0.0023	µg/L	0.00099 U	0.00099 U	0.00097 U	0.00099 U	0.00098 U	**0.00068 J**	0.00099 U	0.00098 U	0.00099 U	0.00099 U	**0.00030 J**	0.00099 U	0.00099 U	0.00099 U	**0.00055 J**	0.0010 U	0.00098 U	0.00099 U	0.00097 U
Heptachlor	0.001	µg/L	0.00099 U	0.00099 U	**0.00030 J**	**0.00044 J**	**0.00016 J**	0.0010 U	**0.00012 J**	0.00098 U	**0.00015 J**	0.00099 U	**0.00021 J**	0.00099 U	**0.00015 J**	0.00099 U	**0.00042 J**	0.0010 U	0.00098 U	0.00099 U	**0.00015 J**
Heptachlor Epoxide	0.001	µg/L	0.0013 U	0.00099 U	**0.00025 J**	0.00099 U	**0.00067 J**	0.0010 U	0.00099 U	0.00098 U	0.00099 U	0.00099 U	0.00097 U	0.00099 U	0.00099 U	0.00099 U	0.00097 U	0.0010 U	0.00098 U	0.00099 U	0.00097 U
Hexachlorobenzene	0.001	µg/L	0.0099 U	0.0005 U	0.00049 U	**0.00027 J**	0.0098 U	0.00050 U	0.00050 U	0.00098 U	0.0099 U	0.00050 U	0.00049 U	0.00099 U	0.0099 U	0.0005 U	0.00049 U	0.0010 U	0.0098 U	0.0005 U	0.00049 U
Isodrin	NE	µg/L	0.0020 U	0.002 U	0.0020 U	0.0019 UJ	0.0020 U	0.0020 U	0.0020 U	**0.00041 J**	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.002 U	0.0020 U	0.0020 U	0.0020 U	0.002 U	0.0020 U
Lindane (Gamma-BHC)	0.063	µg/L	0.00082 U	0.0005 U	0.00097 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00097 U	0.00050 U	0.00050 U	0.0005 U	**0.00069**	0.00050 U	0.00049 U	0.0005 U	0.00049 U
Methoxychlor	0.03	µg/L	0.00050 U	0.0005 U	**0.00016 J**	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U	0.00049 U	0.00050 U	0.00049 U	0.0005 U	0.00049 U
Mirex	0.001	µg/L	0.00099 U	0.00099 U	0.00097 U	**0.00012 J**	0.00011 U	**0.00013 J**	**0.000098 J**	**0.00010 J**	0.00099 U	0.00099 U	**0.00011 J**	0.00099 U	0.00099 U	0.00099 U	0.00097 U	0.0010 U	0.00098 U	0.00099 U	**0.000092 J**
trans-Nonachlor	NE	µg/L	0.00050 U	0.0005 U	**0.00017 J**	**0.00029 J**	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	0.0005 U	**0.00019 J**	0.00050 U	0.00049 U	0.0005 U	**0.00026 J**
alpha-Chlordane (cis)	0.00059	µg/L	**0.00090**	0.0005 U	**0.00025 J**	**0.00080**	**0.00032 J**	**0.00019 J**	0.00050 U	0.00049 U	0.00050 U	0.00050 U	**0.00017 J**	0.00050 U	0.00050 U	0.0005 U	**0.00050**	0.00050 U	0.00049 U	0.0005 U	**0.00076**
gamma-Chlordane	0.00059	µg/L	**0.00084**	0.0005 U	**0.00029 J**	**0.0012**	**0.00037 J**	0.00050 U	0.00050 U	0.00049 U	0.00050 U	0.00050 U	**0.00023 J**	0.00050 U	0.00050 U	0.0005 U	**0.0016**	**0.00020 J**	0.00049 U	0.0005 U	**0.0012 J**
Total Metals																					
Arsenic	5	µg/L	**0.9**	**1.2**	**2**	**1.5**	**3.7**	**6**	**2**	**1.2**	0.5 U	**5**	**2.4**	**4.0**	**1**	2 U	**7.1**	**7.4**	**4.9**	**2.0**	**4.2**
Cadmium	8.8	µg/L	0.1 U	0.2 U	0.5 U	0.1 U	0.1 U	1 U	0.2 U	0.1 U	0.2 U	1 U	0.1 U	0.1 U	0.2 U	0.5 U	**0.2**	**0.2**	0.5 U	0.1 U	0.1 U
Chromium	27	µg/L	1 U	1 U	2 U	**0.7**	**1.0**	5 U	1 U	0.5 U	1 U	5 U	**1.0 J**	**3**	1 U	2 U	**15 J**	**16**	2 U	**3**	**6.6 J**
Copper	2.4	µg/L	0.5 U	**1**	**7**	**2.0**	**1.7**	5 U	**1**	**1.0**	1 U	5 U	**2.3**	**10.7**	1 U	2 U	**23.6**	**19.2**	**5**	**2**	**4.7**
Lead	8.1	µg/L	0.1 U	**0.4**	**2.0**	**0.8**	**2.1**	1 U	**0.4**	**0.2**	0.2 U	1 U	**1.2**	**4.0**	0.2 U	0.5 U	**35.7**	**24.8**	**0.8**	**2.3**	**5.0**
Mercury	0.025	µg/L	**0.00134**	**0.00357**	**0.00787**	**0.00520**	**0.0302**	**0.00703**	**0.00193**	**0.00121**	**0.00109**	**0.00155**	**0.00919**	**0.0668**	**0.00125**	**0.00271**	**0.237**	**0.0647**	**0.0167**	**0.0123**	**0.0612**
Nickel	8.2	µg/L	**0.8**	**1**	**14**	**1.7**	**1.4**	**8**	**2**	**3.3**	**6.1**	5 U	**5.0**	**7.2**	**5**	**6**	**8.2**	**11.2**	2 U	**1.5**	**3.0**
Silver	1.9	µg/L	0.2 UJ	0.5 U	1 U	0.2 U	0.2 U	2 U	0.5 U	0.2 U	0.5 U	2 U	0.2 U	0.2 U	0.5 U	1 U	0.2 U	0.2 U	1 UJ	0.2 U	0.2 U
Zinc	81	µg/L	4 U	10 U	**40**	**8**	**11**	40 U	10 U	**6 J**	**17**	40 U	**6 J**	**30**	10 U	20 U	**55**	**48**	20 U	10 U	**12**
Dissolved Metals																					
Arsenic	5	µg/L	**1.0**	**1.1**	1 U	**1.8**	**2.3**	5 U	**2**	1 U	**0.9**	**3**	**2.0**	**0.8**	1 U	2 U	**2.5**	**2.4**	**4.9**	**1.8**	**3.2**
Cadmium	8.8	µg/L	0.1 U	0.2 U	0.5 U	0.1 U	0.1 U	1 U	0.2 U	0.1 U	0.2 U	1 U	0.1 U	0.1 U	0.2 U	0.5 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U
Chromium	27	µg/L	2 U	1 U	2 U	0.5 U	0.5 U	5 U	1 U	0.5 U	1 U	5 U	0.5 U	1 U	1 U	2 U	**3.8**	**4**	1 U	2 U	**4.6**
Copper	2.4	µg/L	0.5 U	1 U	**5**	**0.8**	**0.8**	5 U	1 U	**1.1**	1 U	5 U	**0.7**	**0.9**	1 U	2 U	0.5 U	**0.9**	**0.9**	1 U	0.5 U
Lead	8.1	µg/L	0.1 U	0.2 U	0.5 U	0.1 U	**0.2**	1 U	0.2 U	0.1 U	0.2 U	1 U	0.1 U	0.1 U	0.2 U	0.5 U	0.1 U	**1.0**	0.2 U	**0.9**	0.1 U
Mercury	0.025	µg/L	**0.00076 J**	**0.00065**	**0.00036 J**	**0.00015 J**	**0.00223**	**0.00173**	**0.00042 J**	**0.00108**	**0.00080 J**	**0.00120**	**0.00057 J**	**0.00117**	**0.00038 J**	**0.00026 J**	**0.00076 J**	**0.0190**	**0.00367**	**0.00347**	**0.00145**
Nickel	8.2	µg/L	**0.9**	1 U	**15**	**1.3**	**1.0**	**10**	**2**	**4.8**	**4.8**	**6**	**4.3**	**3.5**	2 U	**6**	**0.7**	**1.5**	**4.3**	**1.2**	**1.0**
Silver	1.9	µg/L	0.2 UJ	0.5 U	1 U	0.2 U	0.2 U	2 U	0.5 UJ	0.2 U	0.5 U	2 U	0.2 UJ	0.2 U	0.5 U	1 U	0.2 UJ	0.2 U	0.5 UJ	0.2 U	0.2 UJ
Zinc	81	µg/L	4 U	10 U	**30**	**4**	4 U	40 U	10 U	**6 J**	**5**	40 U	4 U	**5**	10 U	20 U	4 U	**12**	10 U	10 U	4 U

Parameter	Screening Level	Unit	MW-17 12/20/2013	MW-17 3/17/2014	MW-17 7/16/2014	MW-18 8/20/2013	MW-18 12/19/2013	MW-18 3/18/2014	MW-18 7/16/2014	MW-19 8/20/2013	MW-19 12/16/2013	MW-19 3/17/2014	MW-19 7/16/2014	MWA (1) 11/24/2015	MWA (1) 3/30/2015	MWB (1) 11/24/2015	MWB (1) 3/30/2015	MWC (1) 11/24/2015	MWC (1) 3/30/2015
PCBs																			
PCB-aroclor 1242	0.03	µg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.025 U	0.010 U	0.010 U	0.015 U	**0.010 U**	0.010 U	**0.010 U**	0.010 U	**0.010 U**	0.010 U
PCB-aroclor 1248	0.03	µg/L	**0.086**	**0.98**	**0.42**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.015 U	0.010 U	0.010 U	**0.18**	**0.083**	**0.02**	0.010 U	**0.012**	0.012 U
PCB-aroclor 1254	0.01	µg/L	**0.10**	**0.88**	**0.48**	0.010 U	0.010 U	0.010 U	**0.010 J**	0.012 U	0.015 U	0.010 U	0.010 U	**0.29**	**0.14**	**0.02**	**0.018**	**0.019 J**	**0.016**
PCB-aroclor 1260	0.015	µg/L	**0.037**	**0.55**	**0.22**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.14**	**0.067**	**0.009 J**	**0.008 J**	**0.010 U**	**0.005 J**
Total PCBs	0.01	µg/L	**0.223 T**	**2.41 T**	**1.12 T**	0.01 UT	0.01 UT	0.01 UT	**0.01 T**	0.025 UT	0.015 UT	0.01 UT	0.015 UT	**0.61**	**.29**	**0.049**	**0.026**	**0.031**	**0.021**
Pesticides																			
2,4'-DDD	0.0005	µg/L	**0.00091**	**0.0020**	**0.002**	**0.00030 J**	0.00050 U	0.00050 U	**0.00011 J**	**0.00020 J**	0.00049 U	0.00050 U	0.0005 U	–	**–**	–	**–**	–	**–**
2,4'-DDE	0.0005	µg/L	0.00050 U	**0.00044 J**	**0.00043 J**	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	0.0005 U	–	**–**	–	**–**	–	**–**
2,4'-DDT	0.0005	µg/L	0.00050 U	0.00050 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	0.0005 U	–	**–**	–	**–**	–	**–**
4,4'-DDD	0.0005	µg/L	**0.0033**	**0.0084**	**0.0092**	**0.0015**	**0.00053**	0.00050 U	**0.00052**	**0.00085**	0.00051 U	0.00050 U	**0.00044 J**	**0.14**	**0.11 J**	**0.0077 J**	0.0012 U	0.0025 U	0.0012 U
4,4'-DDE	0.0005	µg/L	**0.0023**	**0.0046**	**0.0053**	**0.0013**	**0.00048 J**	**0.00019 J**	**0.00035 J**	**0.00048 J**	**0.00026 J**	**0.00010 J**	**0.00078**	**0.039**	**0.03**	**0.0031**	0.0012 U	0.0025 U	0.0012 U
4,4'-DDT	0.0005	µg/L	0.00050 U	0.00050 U	**0.00077**	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	**0.00055**	0.0076 U	0.0062 U	0.0017 U	0.0012 U	0.0025 U	0.0012 U
Aldrin	0.001	µg/L	0.0010 U	0.0010 U	0.001 U	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.0031 U	0.0031 U	0.00062 U	0.00062 U	0.0012 U	0.00062 U
Alpha-BHC	0.0049	µg/L	0.00050 U	0.00050 U	**0.0015 J**	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	0.00094 U	0.0038 U	0.0058 U	0.0019 U	0.0048 U	0.0022 U	0.00062 U
Beta-BHC	0.017	µg/L	0.00050 U	0.00050 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	0.0005 U	0.0036 U	0.0031 U	0.0023 U	0.0088 U	0.0012 U	0.00062 U
Chlorpyrifos	0.0056	µg/L	0.00050 U	**0.00027 J**	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 UJ	0.00049 U	0.00049 U	0.00050 U	0.0005 U	–	**–**	–	**–**	–	**–**
Delta-BHC	0.0414	µg/L	0.00050 UJ	0.00050 U	**0.00099 J**	**0.00044 J**	0.00050 UJ	0.00050 U	0.00049 U	0.00049 U	0.00049 UJ	0.00050 U	0.00064 U	0.0031 U	0.0031 U	0.00062 U	0.00062 U	0.0012 U	0.00062 U
Dieldrin	0.005	µg/L	0.0050 U	0.0050 U	**0.0027 J**	0.0050 U	0.0050 U	0.0050 U	0.0049 U	0.0049 U	0.0049 U	0.0050 U	**0.00075 J**	0.0062 U	0.0062 U	0.0016 U	0.0066 U	0.0025 U	0.0012 U
Endosulfan II	0.0087	µg/L	0.0020 U	0.0050 U	**0.002 U**	0.0020 U	0.0020 U	0.0050 U	0.002 U	0.0020 U	0.0020 U	0.0050 U	**0.002 U**	–		–		–	
Endosulfan Sulfate	0.0087	µg/L	0.00050 U	0.00050 U	**0.0011**	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	**0.00083**	0.0062 U	0.0062 U	0.0012 U	0.0012 U	0.0025 U	0.0012 U
Endrin	0.0023	µg/L	0.0050 U	0.0020 U	0.002 U	0.0020 U	0.0050 U	0.0020 U	0.002 U	0.0020 U	0.0049 U	0.0020 U	0.002 U	0.0062 U	0.0062 U	0.0012 U	0.0012 U	0.0025 U	0.0012 U
Endrin Ketone	0.0023	µg/L	0.00099 U	0.00099 U	0.0021 U	0.0010 U	0.0010 U	0.00099 U	0.00098 U	**0.00048 J**	0.00098 U	0.00099 U	0.0015 U	0.0062 U	0.0062 U	0.0012 U	0.0012 U	0.0025 U	0.0012 U
Heptachlor	0.001	µg/L	0.00099 U	**0.00013 J**	**0.00034 J**	**0.00014 J**	0.0010 U	0.00099 U	0.00098 U	0.00098 U	0.00098 U	0.00099 U	**0.00022 J**	0.0031 U	0.0031 U	0.00064 U	0.0019 U	0.0012 U	0.00062 U
Heptachlor Epoxide	0.001	µg/L	0.00099 U	0.00099 U	**0.00097 J**	0.0010 U	0.0010 U	0.00099 U	0.00098 U	0.00098 U	0.00098 U	0.00099 U	**0.00057 J**	0.0031 U	0.0031 U	0.00062 U	0.00062 U	0.0015 U	0.00062 U
Hexachlorobenzene	0.001	µg/L	0.00099 U	0.0099 U	0.0005 U	0.00050 U	0.0010 U	0.0099 U	0.00049 U	0.00049 U	0.00098 U	0.0099 U	0.0005 U	0.0062 U	0.0062 U	0.0012 U	**0.0021**	0.0025 U	0.0012 U
Isodrin	NE	µg/L	0.0020 U	0.0020 U	0.002 U	0.0020 U	0.0020 U	0.0020 U	0.002 U	0.0020 U	0.0020 U	0.0020 U	0.002 U	–	**–**	–	**–**	–	**–**
Lindane (Gamma-BHC)	0.063	µg/L	0.00050 U	0.00050 U	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	0.0005 U	0.0031 U	0.0031 U	0.00062 U	0.00062 U	0.0012 U	0.00062 U
Methoxychlor	0.03	µg/L	0.00050 U	0.00050 U	0.0018 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	0.00049 U	0.00050 U	**0.0014**	0.031 U	0.031 U	0.0062 U	0.0062 U	0.012 U	0.0062 U
Mirex	0.001	µg/L	0.00099 U	**0.00010 J**	0.00099 U	**0.00012 J**	**0.00012 J**	0.00099 U	0.00098 U	0.00098 U	0.00098 U	0.00099 U	0.00099 U	–	**–**	–	**–**	–	**–**
trans-Nonachlor	NE	µg/L	0.00050 U	**0.00012 J**	0.0005 U	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	**0.00013 J**	0.00050 U	0.0005 U	–	**–**	–	**–**	–	**–**
alpha-Chlordane (cis)	0.00059	µg/L	0.00050 U	**0.00020 J**	**0.00069**	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	**0.00021 J**	0.00050 U	**0.00024 J**	0.0031 U	**–**	0.00062 U	**–**	0.019 U	**–**
gamma-Chlordane	0.00059	µg/L	**0.00022 J**	0.00050 U	**0.0012**	0.00050 U	0.00050 U	0.00050 U	0.00049 U	0.00049 U	**0.00023 J**	0.00050 U	**0.00042 J**	0.0031 U	**–**	0.00062 U	**–**	0.0012 U	**–**
Total Metals																			
Arsenic	5	µg/L	**3.1**	**5**	**3**	**6.6**	**3.4**	**2**	**3.5**	**4.5**	**2.5**	**2.4 J**	**2.4**	**12**	**8.6**	**6**	**5**	**1**	**2**
Cadmium	8.8	µg/L	0.1 U	0.5 U	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	**0.8**	**0.4**	**0.1 J**	**0.2 J**	0.5 U	0.5 U
Chromium	27	µg/L	**6**	**6.2**	**7**	**3.1 J**	**1.6**	**2**	2 U	**4 J**	**2.0**	2 U	2 U	**40**	**30**	**9**	**5**	**3**	**4**
Copper	2.4	µg/L	**1.0**	**7**	**3**	**10.7**	**1.6**	1 U	2 U	**4.1**	**2.2**	1 U	1 U	**41.4**	**26**	**4**	**2 J**	**2 J**	**3**
Lead	8.1	µg/L	**0.8**	**10.8**	**5.4 J**	**9.0**	**2.3**	**0.7**	**1.7 J**	**2.9**	**1.4**	**0.5 J**	**0.4 J**	**306**	**206**	**32.8**	**12.6**	**1.6**	**2.4**
Mercury	0.025	µg/L	**0.00818**	**0.0328**	**0.0142**	**0.0183**	**0.0061 J**	**0.00151**	**0.00266**	**0.0500**	**0.00584**	**0.00150**	**0.00205**	**–**	**0.19**	**–**	**0.014 J**	**–**	**0.027**
Nickel	8.2	µg/L	**1.6**	**4**	**4**	**3.1**	**2.3 J**	5 U	**2.5**	**3.5**	**3.2**	**3**	2 U	**20.2**	**12**	**2 J**	**2 J**	**0.9 J**	**1 J**
Silver	1.9	µg/L	0.2 UJ	1 UJ	0.5 UJ	0.2 U	0.2 U	0.5 U	0.2 UJ	0.2 U	0.2 U	0.5 UJ	0.2 UJ	**0.2 J**	**0.1 J**	**0.05 J**	1 U	1 U	**0.05 J**
Zinc	81	µg/L	**4**	**20**	**20**	**14**	**7**	4 U	**5**	**8**	**10**	10 U	4 U	**188**	**240**	**30**	**13 J**	**4 J**	**8 J**
Dissolved Metals																			
Arsenic	5	µg/L	**2.9**	**3.4**	**3**	**5.4**	**3.1**	**4**	**3.6**	**3.0**	**2.2**	**2.4 J**	**2.3**	**3**	**2.0**	**7.3**	**4.5**	**2**	**1 J**
Cadmium	8.8	µg/L	0.1 U	0.2 U	0.2 U	0.1 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	**0.08 J**	0.1 U	0.5 U	**0.02 J**	**0.2 J**	0.5 U
Chromium	27	µg/L	**5**	**4**	**5**	1 U	2 U	2 U	2 U	**1.6**	**1.3**	**2**	2 U	**4.4**	**3**	**8**	**4**	**1.8**	**2 J**
Copper	2.4	µg/L	0.5 U	0.5 U	1 U	**1.1**	0.5 U	5 U	2 U	0.5 U	0.5 U	0.5 U	1 U	**2.6**	**0.3 J**	**2**	**0.5 J**	**2.4**	**1 J**
Lead	8.1	µg/L	0.1 U	0.2 U	**0.2**	0.1 U	**0.2**	1 U	0.1 U	0.1 U	0.1 U	0.2 UJ	0.5 U	**19.2**	**0.08 J**	**14.4**	**0.1 J**	**2**	**0.2 J**
Mercury	0.025	µg/L	**0.00093 J**	**0.00438**	**0.00302**	**0.00032 J**	**0.00063 J**	**0.00043**	**0.00054**	**0.00066 J**	**0.00040 J**	**0.00060 J**	**0.00047 J**	**0.0165**	0.020 U	**0.0153**	**0.007 J**	**0.0164**	**0.005 J**
Nickel	8.2	µg/L	**1.6**	**1.4**	**1**	**1.6**	**2.0 J**	5 U	**2.1**	**2.0**	**2.6**	**2.9**	**2.0**	**1.4**	**0.3 J**	**1.0**	**0.7 J**	**1.5 J**	**0.3 J**
Silver	1.9	µg/L	0.2 UJ	0.5 UJ	0.5 UJ	0.2 UJ	0.2 U	1 U	0.2 UJ	0.2 UJ	0.2 U	0.5 UJ	0.2 UJ	**0.02 J**	**0.01 J**	**0.05 J**	0.4 U	2 U	1 U
Zinc	81	µg/L	**6**	10 U	10 U	4 U	4 U	4 U	4 U	4 U	4 U	10 U	20 U	**12**	4 U	**10**	**3 J**	**5.2 J**	**15 J**

Notes:

NE = A Screening Level was not established for this analyte (See Table 9)

J = estimated value

T = summed result

U = not detected

µg/L = micrograms per liter

Bold = detected value

Yellow Fill indicates detected result > the groundwater Screening Level

Blue Fill indicates not detected with reporting limit > the groundwater Screening Level

TABLE H.1 - Results of Soil Sample Analyses - 1986

ICS/NW Cooperage Site
Seattle, WA

Location	Soil	HC-B-1	HC-B-2	1 (b)	2(b)	3(b)	4(b)	5(b)	6(b)	EPA-B1A	EPA-B1A	EPA-B1A
Date	Contact	May-86	May-86	Feb-86	Feb-86	Feb-86	Feb-86	Feb-86	Feb-86	Sep-86	Sep-86	Sep-86
Source	Screening	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(c)	(c)	(c)
Depth (feet)	Level (f)	2.5-12	2.5-9	0-2	0-2	0-2	0-2	0-2	0-2	Spl. D (d)	5-7(e)	7-8.5(e)
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Metals												
Anitmony	1400	**5**	nd	nd	nd	nd	nd	nd	nd	**0.3**	nd	**0.6**
Arsenic	87.5	**5.1**	**6.2**	**5**	**5.5**	**4.5**	**4.5**	**4**	**7.8**	**7.8**	**2.9**	**3.4**
Beryllium	7000	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**3.5**	**2.9**	**2.7**
Cadmium	3500	nd	nd	**0.5**	**1.4**	**0.5**	nd	nd	**3.5**	**0.72**	**0.74**	**0.84**
Chromium (SL as Cr+6)	10,500	**35**	**120**	**27**	**200**	**20**	**37**	**22**	**200**	**22.6**	**50.5**	**55.1**
Copper	140,000	**35**	**72**	**26**	**28**	**13**	**15**	**13**	**100**	**40.6**	**49.5**	**50.7**
Lead	1000	**63**	**170**	**1400**	**640**	**48**	**160**	**60**	**1400**	**56.9**	**157.8**	**171.3**
Mercury	2	**0.2**	**0.4**	**0.5**	**1**	**0.3**	**0.6**	**0.2**	**6.7**	**0.05**	**0.19**	**0.22**
Nickel	70,000	**28**	**61**	**22**	**21**	**11**	**15**	**12**	**47**	**14.4**	**31.9**	**26.6**
Silver	17,500	**0.5**	**0.9**	nd	**1.2**	**0.2**	**0.1**	nd	**0.2**	**0.11**	**0.1**	**0.14**
Zinc	1,050,000	**81**	**290**	**130**	**440**	**91**	**120**	**70**	**640**	**91**	**140**	**141**
Volatile Organic Compounds												
Vinyl chloride	87.5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	21,000	**0.13**	**0.35**	**0.06**	**0.04**	**TR**	**0.051**	**0.053**	**0.33**	nd	nd	nd
Acetone	3,150,000	**0.41**	**1.7**	nd	nd	TR	**0.04**	**0.044**	**0.092**	nd	nd	nd
Chloroform	4230	nd	nd	TR	TR	nd	TR	nd	TR	nd	nd	nd
1,1-Dichloroethylene	175,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	23,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
trans 1,2-dichloroethylene	70,000	nd	TR	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	7,000,000	TR	TR	nd	nd	nd	nd	nd	TR	nd	nd	nd
Trichloroethylene	1750	nd	TR	nd	TR	nd	nd	nd	**0.039**	nd	nd	nd
Tetrachloroethylene	21,000	TR	**0.13**	TR	TR	nd	nd	nd	**0.87**	nd	**0.42**	**0.35**
Benzene	2390	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4,-Methyl-2-pentanone	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	280,000	nd	**0.035**	nd	nd	nd	nd	nd	TR	nd	nd	nd
Ethylbenzene	350,000	TR	**0.19**	nd	nd	nd	nd	nd	**0.11**	**0.12**	nd	nd
Total Xylene	700,000	**0.028**	**0.36**	nd	nd	nd	nd	nd	**0.32**	nd	**1.3**	nd
Semivolatile Organic Compounds												
Phenol	1,050,000	nd	**0.32**	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	315,000	nd	nd	nd	nd	nd	nd	nd	**0.66**	nd	nd	nd
2,4-Dimethylphenol	70,000	nd	**0.93**	nd	nd	nd	nd	nd	nd	nd	nd	nd
Naphthalene	70,000	**1.9**	**1.9**	nd	nd	nd	nd	nd	nd	nd	**2.8**	**2.9**
4-Chloro-m-cresol	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Acenaphthylene	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Acenaphthene	210,000	**0.68**	**0.33**	nd	nd	nd	nd	nd	nd	nd	**0.72**	nd
Fluorene	140,000	**0.43**	**0.34**	nd	nd	nd	nd	nd	nd	nd	**0.6**	nd
Pentachlorophenol	328	nd	nd	**0.07**	**0.48**	nd	nd	nd	**0.81**	nd	nd	nd
Phenanthrene	-----	**0.93**	**0.98**	**0.086**	**0.64**	nd	nd	nd	**0.66**	nd	**1.8**	nd
Anthracene	1,050,000	**0.25**	**1.3**	nd	nd	nd	nd	nd	nd	nd	**0.36**	nd

TABLE H.1 - Results of Soil Sample Analyses - 1986

ICS/NW Cooperage Site
Seattle, WA

Location	Soil	HC-B-1	HC-B-2	1 (b)	2(b)	3(b)	4(b)	5(b)	6(b)	EPA-B1A	EPA-B1A	EPA-B1A
Date	Contact	May-86	May-86	Feb-86	Feb-86	Feb-86	Feb-86	Feb-86	Feb-86	Sep-86	Sep-86	Sep-86
Source	Screening	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(c)	(c)	(c)
Depth (feet)	Level (f)	2.5-12	2.5-9	0-2	0-2	0-2	0-2	0-2	0-2	Spl. D (d)	5-7(e)	7-8.5(e)
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Dibutylphthalate	-----	nd	**0.53**	**0.057**	**0.68**	nd	nd	nd	**0.6**	nd	nd	nd
Fluoranthene	140,000	**0.75**	**0.39**	**0.072**	**0.84**	nd	nd	nd	nd	nd	**1.1**	nd
Pyrene	105,000	**0.47**	**0.37**	nd	**0.51**	nd	nd	nd	**0.5**	nd	nd	**0.97**
Butyl benzyl phthalate	69,100	nd	nd	nd	nd	nd	nd	**0.15**	nd	nd	nd	nd
bis(2-ethylhexyl)phthalate	9,380	**2.63**	**1.8**	**5.8**	**6.9**	**0.32**	nd	**0.36**	**4.8**	nd	nd	nd
Di-n-octyl phthalate	35,000	**0.38**	**0.13**	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dibenzofuran	3,500	**0.42**	**0.16**	nd	nd	nd	nd	nd	nd	nd	**0.63**	nd
2-Methylnaphthalene	14,000	**0.77**	**1.5**	nd	nd	nd	nd	nd	**1.26**	nd	**1.1**	nd
2-Methylphenol	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4-Methylphenol	-----	**0.51**	**0.53**	nd	nd	nd	nd	nd	nd	nd	**0.5**	nd
Pesticides/PCBs												
Dieldrin	8.2	nd	nd	nd	nd	nd	**0.029**	**0.016**	nd	nd	nd	nd
4,4'-DDD	547	nd	nd	nd	**0.046**	nd	nd	nd	**0.427**	nd	nd	nd
4,4'-DDE	386	nd	nd	nd	**0.11**	nd	**0.219**	**0.019**	nd	nd	nd	nd
4,4'-DDT	386	nd	nd	nd	nd	nd	**0.246**	**0.199**	**0.684**	nd	nd	nd
Endrin	1050	nd	nd	**0.104**	nd	nd	nd	nd	nd	nd	nd	nd
PCB 1248	10 (as total)	**1.8**	**1.7**	nd	nd	nd	nd	nd	nd	**1.93**	**4.37**	**3.48**
PCB 1260	10 (as total)	**0.95**	**1.2**	nd	nd	**0.398**	**0.435**	nd	nd	**1.1**	**2.21**	**2.04**
Other Compounds												
Total Cyanide	2,100	**0.7**	**8.3**	**0.6**	**3.6**	**1.9**	**9.8**	**3.6**	**4.5**	-----	-----	-----
Total Phenol	1,050,000	**0.7**	**1.6**	nd	**0.6**	nd	nd	nd	nd	-----	-----	-----

Notes:

nd - Not detected
TR - Trace
(a) - Hart Crowser 1986
(b) - Surface composite sample
(c) - Hart Crowser 1987
(d) - Depth not reported in Hart Crowser 1987 report
(e) - EPA split sample results collected during drilling of borings/wells.
Sample depth assumed to be sequential (i.e. sample S-1 on log = C-1 on Hart Crowser table)
(f) - Based on industrial land use
- Exceeds soil contact screening level (SL)

TABLE H.1 - Results of Soil Sample Analyses - 1986

ICS/NW Cooperage Site
Seattle, WA

Location	Soil	EPA-B1A	EPA-B2A	EPA-B2A	EPA-B2A	EPA-B2A	EPA-B4	EPA-B4	EPA-B4	EPA-B5	EPA-B5	EPA-B5	EPA-B5
Date	Contact	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86
Source	Screening	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Depth (feet)	Level (f)	8.5-10.5(e)	Spl. D (d)	5-7(e)	7-8.5(e)	8.5-10.5(e)	2-3(e)	4.5-6(e)	7-8.5(e)	Spl. D(d)	2-3.5(e)	5-6.5(e)	7-8.5(e)
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Metals													
Anitmony	1400	**0.4**	nd	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.5**	**nd**	**nd**	**0.3**	**0.1**
Arsenic	87.5	**7.6**	**1.2**	**3.3**	**6.4**	**1.6**	**1.9**	**4.1**	**2.1**	**4.8**	**2.4**	**3.9**	**1.8**
Beryllium	7000	**3.6**	**1.1**	**1.5**	**2.9**	**1.4**	**1.7**	**3**	**1.2**	**3.9**	**1.7**	**3.6**	**2.3**
Cadmium	3500	**0.66**	**0.04**	**0.72**	**1.53**	**0.15**	**0.22**	**0.15**	**0.05**	**0.06**	**nd**	**0.07**	**0.03**
Chromium (SL as Cr+6)	10,500	**22.5**	**7.6**	**32.6**	**38.6**	**12.4**	**12.2**	**11.6**	**10.6**	**14.6**	**7.6**	**14**	**10.4**
Copper	140,000	**48**	**14.1**	**21.5**	**41.6**	**12.8**	**33.1**	**26.8**	**10.9**	**35.5**	**12.3**	**35.3**	**18.3**
Lead	1000	**51.5**	**7.4**	**444**	**158.2**	**28.3**	**22.6**	**1**	**0.5**	**0.8**	**0.8**	**1.7**	nd
Mercury	2	**0.06**	**0.02**	**0.26**	**2.18**	**0.06**	**0.12**	**0.02**	**0.01**	**0.02**	**0.03**	**0.02**	**0.02**
Nickel	70,000	**13.9**	**5.9**	**9.9**	**14**	**6.4**	**7.8**	**10.1**	**5**	**10.3**	**6.7**	**11.2**	**8.5**
Silver	17,500	**0.13**	**nd**	**0.03**	**0.17**	nd	nd	nd	nd	nd	nd	nd	nd
Zinc	1,050,000	**87**	**19**	**149**	**217**	**35**	**37**	**34**	**22**	**35**	**23**	**35**	**29**
Volatile Organic Compounds													
Vinyl chloride	87.5	nd	nd	nd	**0.015**	nd	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	21,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Acetone	3,150,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Chloroform	4230	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethylene	175,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	23,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
trans 1,2-dichloroethylene	70,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	7,000,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	1750	nd	nd	**0.023**	nd	nd	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	21,000	nd	nd	nd	**0.072**	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	2390	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4,-Methyl-2-pentanone	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	280,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	350,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Total Xylene	700,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Semivolatile Organic Compounds													
Phenol	1,050,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	315,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2,4-Dimethylphenol	70,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Naphthalene	70,000	nd	nd	**1.7**	nd	nd	nd	nd	nd	nd	nd	nd	nd
4-Chloro-m-cresol	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Acenaphthylene	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Acenaphthene	210,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Fluorene	140,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pentachlorophenol	328	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Phenanthrene	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Anthracene	1,050,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TABLE H.1 - Results of Soil Sample Analyses - 1986

ICS/NW Cooperage Site
Seattle, WA

Location	Soil	EPA-B1A	EPA-B2A	EPA-B2A	EPA-B2A	EPA-B2A	EPA-B4	EPA-B4	EPA-B4	EPA-B5	EPA-B5	EPA-B5	EPA-B5
Date	Contact	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86	Sep-86
Source	Screening	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Depth (feet)	Level (f)	8.5-10.5(e)	Spl. D (d)	5-7(e)	7-8.5(e)	8.5-10.5(e)	2-3(e)	4.5-6(e)	7-8.5(e)	Spl. D(d)	2-3.5(e)	5-6.5(e)	7-8.5(e)
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Dibutylphthalate	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Fluoranthene	140,000	nd	nd	**0.5**	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pyrene	105,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Butyl benzyl phthalate	69,100	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
bis(2-ethylhexyl)phthalate	9,380	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Di-n-octyl phthalate	35,000	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dibenzofuran	3,500	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2-Methylnaphthalene	14,000	nd	nd	**2**	nd	nd	nd	nd	nd	nd	nd	nd	nd
2-Methylphenol	-----	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4-Methylphenol	-----	nd	nd	**0.6**	nd	nd	nd	nd	nd	nd	nd	nd	nd
Pesticides/PCBs													
Dieldrin	8.2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4,4'-DDD	547	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4,4'-DDE	386	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4,4'-DDT	386	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Endrin	1050	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
PCB 1248	10 (as total)	**3.42**	**1.05**	**12.4**	**1.67**	**2.31**	**0.42**	nd	nd	nd	nd	nd	nd
PCB 1260	10 (as total)	**1.65**	**0.62**	**2.9**	**4.32**	**0.76**	**0.32**	nd	nd	nd	nd	nd	nd
Other Compounds													
Total Cyanide	2,100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Phenol	1,050,000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Notes:

nd - Not detected
TR - Trace
(a) - Hart Crowser 1986
(b) - Surface composite sample
(c) - Hart Crowser 1987
(d) - Depth not reported in Hart Crowser 1987 report
(e) - EPA split sample results collected during drilling of borings/wells.
Sample depth assumed to be sequential (i.e. sample S-1 on log = C-1 on Hart Crowser table)
(f) - Based on industrial land use
- Exceeds soil contact screening level (SL)

TABLE H.2 - Results of Soil Sample Analyses - 1991

Location	SC-1 (b)
Date	1991
Source	(a)
Depth (cm)	<15
Units	(mg/kg)
Total Metals	
Arsenic	<11
Cadmium	<0.57
Chromium	**15.9**
Copper	**22**
Lead	**49.2**
Mercury	<0.11
Nickel	**15.8**
Zinc	**58.1**
Volatile Organic Compounds	
1,1,1-Trichloroethane	<0.057
1,1,2,2-Tetrachloroethane	<0.057
1,1,2-Trichloroethane	<0.057
1,1-Dichloroethane	<0.057
1,1-Dichloroethene	<0.057
1,2-Dichloroethane	<0.057
1,2-Dichloropropane	<0.057
2-Hexanone	<0.011
Acetone	<0.011
Allyl chloride	-----
Benzene	<0.057
Bromodichloromethane	<0.057
Bromoform	<0.057
Bromomethane	<0.011
Carbon disulfide	<0.057
Carbon Tetrachloride	<0.057
Chlorobenzene	<0.057
Chloroethane	<0.011
Chloroform	<0.057
Chloromethane	<0.011
cis-1,3-Dichloropropene	<0.057
Dibromochloromethane	<0.057
Dichloromethane	<0.057
Ethylbenzene	<0.057
Methyl ethyl ketone	<0.011
Styrene	<0.057
Tetrachloroehtene	<0.057
Toluene	<0.057
Trichloroethene	<0.057
Vinyl chloride	<0.011
Xylene (m &p)	<0.057
Xylene (o)	<0.057
Semivolatile Organic Compounds	
Acenaphthene	<0.38
Acenaphthylene	<0.38
Anthracene	<0.38
Benzo(a)anthracene	<0.38
Benzo(a)pyrene	<0.38
Benzo(b)fluoranthene	<0.38
Benzo(ghi)perylene	<0.38
Benzo(k)fluoranthene	<0.38
Total Benzofluoranthenes	<0.38
Chrysene	<0.38
Dibenzo(ah)anthracene	<0.38
Fluoranthene	<0.38

Location	SC-1 (b)
Date	1991
Source	(a)
Depth (cm)	<15
Units	(mg/kg)
Fluorene	<0.38
Indeno(123-cd)pyrene	<0.38
Naphthalene	<0.38
Phenanthrene	<0.38
Pyrene	<0.38
Pesticides/PCBs	
4,4'-DDD	<0.039
4,4'-DDE	<0.039
4,4'-DDT	<0.039
Aldrin	<0.019
alpha-BHC	<0.019
beta-BHC	<0.019
delta-BHC	<0.019
Dieldrin	<0.039
Endosulfan sulfate	<0.039
Endrin	<0.039
Endrin aldehyde	<0.039
Heptachlor	<0.019
Heptachlor epoxide	<0.019
Lindane	<0.019
Methoxychlor	<0.200
Toxaphene	<0.390
PCB 1016	<0.200
PCB 1221	<0.200
PCB 1232	<0.200
PCB 1242	<0.200
PCB 1248	<0.200
PCB 1254	<0.200
PCB 1260	<0.200
Total PCBs	<0.200
Dioxin/Furans (ng/kg)	
1,2.3,4,6,7,8-HpCDD	**0.24**
1,2.3,4,6,7,8-HpCDF	<0.019
1,2.3,4,7,8,9-HpCDF	<0.019
1,2.3,4,7,8-HxCDD	<0.023
1,2.3,4,7,8-HxCDF	<0.021
1,2.3,6,7,8-HxCDD	<0.023
1,2.3,6,7,8-HxCDF	<0.021
1,2.3,7,8,9-HxCDD	<0.023
1,2.3,7,8,9-HxCDF	<0.021
1,2.3,7,8-PeCDD	<0.027
1,2.3,7,8-PeCDF	<0.0089
2,3,4,6,7,8-HxCDF	<0.021
2,3,4,7,8-PeCDF	<0.0089
2,3,7,8-TCDD	<0.0082
2,3,7,8-TCDF	<0.0053
OCDD	**2.3**
OCDF	<0.077

Notes:
nd - Not detected
< - Not detected at indicated reporting limit
----- - Not analyzed
(a) - Parametrix 1991
(b) - Composite of four samples

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

ICS/NW Cooperage Site
Seattle, WA

Location	Soil Contact Screening Level (c)	SA-MW-1	SA-MW-1	SA-MW-2	SA-MW-2	SA-MW-2	SA-MW-3	P1	P2	P2
Date		Apr-07	Apr-07	Apr-07	Apr-07	Apr-07	Apr-07	Jul-08	Jul-08	Jul-08
Source		(a)	(a)	(a)	(a)	(a)	(a)	(b)	(b)	(b)
Depth (feet)		5-6.5	12.5-13.5	7.5-8	10-11.5	15-16.5	10-11.5	2.5-3	5-5.5	10-10.5
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Observations	-----	heavy sheen	sl sheen	heavy sheen	heavy sheen	heavy sheen	No sheen	No sheen	mod. sheen	lt sheen
Total Solids (%)	-----	76.3	74	80	86.3	80.4	77.6	-----	-----	-----
Total Organic Carbon (%)	-----	4.25	0.28	1.63	2.6	4.01	0.3	-----	-----	-----
Petroleum Hydrocarbons										
Gasoline Range Organics	30	**260**	<20	**10**	<20	**54**	<20	-----	-----	-----
Diesel Range Organics (DRO)	2000	**15000**	<50	**1000**	**61**	**1000**	<50	**620**	**4500**	**47**
Motor-Oil Range Organics (RRO)	2000	**49000**	<100	**3000**	**210**	**2100**	<100	**690**	**8700**	**74**
Total DRO+RRO	2000	**64000**	<100	**4000**	**271**	**3100**	<100	**1310**	**13200**	**121**
Type	-----	-----	-----	-----	-----	-----	-----	D/MO	D/MO	D/MO
Total Metals										
Arsenic	87.5	**11.7**	**1.11**	**2.61**	**4.69**	**3.1**	**1.14**	-----	-----	-----
Cadmium	3500	**0.858**	**0.095**	**0.322**	**0.121**	**0.537**	**0.078**	-----	-----	-----
Chromium	10500	**56.6**	**18.2**	**22.9**	**14.6**	**55.3**	**8.7**	-----	-----	-----
Copper	140000	**284**	**20.8**	**18.8**	**18.9**	**41.2**	**13.1**	-----	-----	-----
Lead	1000	**836**	**6.44**	**76.8**	**25**	**204**	**1.82**	**50**	**3570**	**13**
Mercury	24	**2.01**	**0.771**	**0.019**	**0.055**	**0.318**	**0.019**	-----	-----	-----
Silver	17500	**0.44**	**0.11**	**0.45**	**0.04**	**0.13**	**0.03**	-----	-----	-----
Zinc	1050000	**220**	**25.9**	**85.7**	**34.7**	**126**	**18.1**	-----	-----	-----
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	4530	<1	<0.05	<0.2	<0.04	**0.058**	<0.01	-----	-----	-----
1,2-Dichlorobenzene	315000	**0.98**	<0.05	<0.2	<0.04	**0.048**	<0.01	-----	-----	-----
1,4-Dichlorobenzene	24300	**2.4**	<0.05	<0.2	<0.04	**0.15**	<0.01	-----	-----	-----
2,4-Dimethylphenol	70000	<5	<0.25	<1.0	<0.20	<1	<0.05	-----	-----	-----
2-Methylnaphthalene	14000	**17**	**0.067**	**0.073**	**0.035**	**0.27**	<0.01	-----	-----	-----
2-Methylphenol	-----	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
4-Methylphenol	-----	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
Acenaphthene	210000	**0.82**	<0.05	**0.057**	**0.0099**	**0.18**	<0.01	-----	-----	-----
Acenaphthylene	-----	<1	<0.05	<0.2	**0.0085**	**0.063**	<0.01	-----	-----	-----
Anthracene	1050000	**0.91**	<0.05	**0.06**	**0.022**	**0.2**	<0.01	-----	-----	-----
Benzo(a)anthracene	See BaPEq	**0.45**	<0.05	**0.038**	**0.046**	**0.26**	<0.01	-----	-----	-----
Benzo(a)pyrene	See BaPEq	<1	<0.05	<0.2	**0.045**	**0.28**	<0.01	-----	-----	-----
Benzo(b)fluoranthene	See BaPEq	<1	<0.05	<0.2	**0.051**	**0.3**	<0.01	-----	-----	-----
Benzo(ghi)perylene	-----	<1	<0.05	<0.2	**0.035**	**0.22**	<0.01	-----	-----	-----
Benzo(k)fluoranthene	See BaPEq	<1	<0.05	<0.2	**0.017**	**0.12**	<0.01	-----	-----	-----
Total Benzofluoranthenes	See BaPEq	<1	<0.05	<0.2	**0.068**	**0.42**	<0.01	-----	-----	-----
Benzoic Acid	-----	<20	<1	<4	<0.80	<4	<0.2	-----	-----	-----
Benzyl Alcohol	350000	<2	<0.10	<0.4	<0.080	<0.4	<0.02	-----	-----	-----
Bis(2-ethylhexyl)phthalate	9380	**2.7**	**0.068**	**1.5**	**0.094**	**1.2**	**0.0051**	-----	-----	-----
Butylbenzylphthalate	69100	<1	<0.05	<0.2	<0.04	**0.11**	<0.01	-----	-----	-----
Chrysene	See BaPEq	**0.78**	**0.01**	**0.066**	**0.054**	**0.31**	<0.01	-----	-----	-----
Dibenzo(ah)anthracene	See BaPEq	<1	<0.05	<0.2	<0.040	<0.2	<0.01	-----	-----	-----

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

ICS/NW Cooperage Site
Seattle, WA

Location Date Source Depth (feet) Units	Soil Contact Screening Level (c)	SA-MW-1 Apr-07 (a) 5-6.5 (mg/kg)	SA-MW-1 Apr-07 (a) 12.5-13.5 (mg/kg)	SA-MW-2 Apr-07 (a) 7.5-8 (mg/kg)	SA-MW-2 Apr-07 (a) 10-11.5 (mg/kg)	SA-MW-2 Apr-07 (a) 15-16.5 (mg/kg)	SA-MW-3 Apr-07 (a) 10-11.5 (mg/kg)	P1 Jul-08 (b) 2.5-3 (mg/kg)	P2 Jul-08 (b) 5-5.5 (mg/kg)	P2 Jul-08 (b) 10-10.5 (mg/kg)
Dibenzofuran	3500	**0.68**	<0.05	**0.042**	**0.012**	**0.093**	<0.01	-----	-----	-----
Diethylphthalate	2800000	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
Dimethylphthalate	-----	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
Di-N-Butylphthalate	-----	<1	<0.05	**0.13**	<0.04	**0.15**	<0.01	-----	-----	-----
Di-n-octyl phthalate	35000	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
Fluoranthene	140000	**1.9**	**0.021**	**0.12**	**0.1**	**0.89**	<0.01	-----	-----	-----
Fluorene	140000	**1.9**	**0.013**	**0.087**	**0.016**	**0.21**	<0.01	-----	-----	-----
Hexachlorobenzene	82	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
Hexachlorobutadiene	1680	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
Indeno(123-cd)pyrene	See BaPEq	<1	<0.05	<0.2	**0.033**	**0.2**	<0.01	-----	-----	-----
Naphthalene	70000	**3.6**	**0.02**	<0.068	**0.095**	**1.1**	<0.01	-----	-----	-----
N-Nitrosodiphenylamine	26800	<1	<0.05	<0.2	<0.04	<0.2	<0.01	-----	-----	-----
Pentachlorophenol	328	<10	<0.5	<2	<0.4	**0.37**	<0.1	-----	-----	-----
Phenanthrene	-----	**7**	**0.054**	**0.24**	**0.079**	**0.98**	**0.0023**	-----	-----	-----
Phenol	1050000	<3	**0.038**	<0.59	<0.12	0.051	<0.03	-----	-----	-----
Pyrene	105000	**2.7**	**0.023**	**0.11**	**0.11**	**0.79**	<0.01	-----	-----	-----
BaPEq.-TEQ (see Table H.3b)	131	**0.05**	**0.0001**	**0.004**	**0.06**	**0.37**	nd	-----	-----	-----
Pesticides/PCBs										
2,4'-DDD	-----	<0.19	<0.0011	**0.0049**	**0.0082**	**0.19**	<0.00049	-----	-----	-----
2,4'-DDE	-----	<0.16	**0.0033**	**0.0018**	**0.00032**	<0.037	<0.00049	-----	-----	-----
2,4'-DDT	-----	**0.41**	**0.0024**	<0.0022	**0.01**	**0.2**	<0.00049	-----	-----	-----
4,4'-DDD	547	<0.017	<0.0005	**0.0026**	**0.0049**	**0.19**	<0.00049	-----	-----	-----
4,4'-DDE	386	**1.9**	**0.0210**	**0.0064**	**0.0081**	**0.34**	<0.00049	-----	-----	-----
4,4'-DDT	386	**0.49**	**0.0032**	**0.005**	**0.0073**	<0.2	<0.00049	-----	-----	-----
Aldrin	7.7	<0.005	<0.0012	<0.0005	<0.0005	<0.025	<0.00049	-----	-----	-----
Chlordane	-----	<0.26	<0.0240	**0.032**	<0.011	<0.25	<0.0049	-----	-----	-----
Dieldrin	8.2	<0.011	<0.0005	<0.0005	<0.0026	<0.065	<0.00049	-----	-----	-----
Heptachlor	29.2	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00049	-----	-----	-----
Lindane	119	<0.03	**0.0012**	<0.0005	0.0016	<0.025	<0.00049	-----	-----	-----
PCB 1016	see Total	<5	<0.005	<0.025	<0.049	<0.5	<0.0049	<9.2	<1.2	<0.032
PCB 1221	see Total	<10	<0.010	<0.049	<0.097	<0.99	<0.0049	<9.2	<1.2	<0.032
PCB 1232	see Total	<5	<0.005	<0.025	<0.049	<0.5	<0.0049	<9.2	<1.2	<0.032
PCB 1242	see Total	**51**	**0.24**	**0.1**	**0.4**	**6.3**	<0.0049	**14**	<1.2	**0.064**
PCB 1248	see Total	<5	<0.005	<0.025	<0.049	<0.5	<0.0049	<9.2	**2.7**	<0.032
PCB 1254	see Total	**18**	**0.081**	**0.065**	**0.16**	**2.8**	<0.0049	**28**	**5.5**	0.038
PCB 1260	see Total	**7.5**	**0.041**	**0.046**	**0.21**	**2.8**	<0.0049	**76**	**12**	<0.032
Total PCBs	10	**76.5**	**0.362**	**0.211**	**0.77**	**11.9**	<0.0049	**90**	**20**	**0.1**

Notes:

(a) - SAIC 2007
(b) - By DOF
(c) - Based on an industrial landuse
MO - Motor oil fuel pattern
DRO - Diesel range organics - pattern not match standard
RRO - Residual range organics - pattern not match standard
D - Diesel fuel pattern
< - Not detected at indicated reporting level
- Shading indicates exceedance of industrial land use screening level

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

Location Date Source Depth (feet) Units	Soil Contact Screening Level (c)	P2 Jul-08 (b) 15-15.5 (mg/kg)	P3 Jul-08 (b) 5-5.5 (mg/kg)	P3 Jul-08 (b) 10-10.5 (mg/kg)	P3 Jul-08 (b) 15-15.5 (mg/kg)	P4 Jul-08 (b) 5-5.5 (mg/kg)	P4 Jul-08 (b) 10-10.5 (mg/kg)	P4 Jul-08 (b) 15-15.5 (mg/kg)	P5 Jul-08 (b) 6-6.5 (mg/kg)	P5 Jul-08 (b) 10-10.5 (mg/kg)
Observations	-----	lt sheen	mod. sheen	mod. sheen	no sheen	no sheen	no sheen	no sheen	sheen	no sheen
Total Solids (%)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Organic Carbon (%)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Petroleum Hydrocarbons										
Gasoline Range Organics	30	-----	-----	-----	-----	-----	-----	-----	-----	-----
Diesel Range Organics (DRO)	2000	**23**	**6800**	**120**	**67**	**190**	<7.2	<6.7	**2300**	**25**
Motor-Oil Range Organics (RRO)	2000	**34**	**18000**	**160**	**70**	**230**	**16**	<13	**5600**	**30**
Total DRO+RRO	2000	**57**	**24800**	**280**	**137**	**420**	**16**	<13	**7900**	**55**
Type	-----	D/MO	D/MO	DRO/MO	DRO/MO	DRO/MO	MO	-----	D/MO	DRO/MO
Total Metals										
Arsenic	87.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	3500	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	10500	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	140000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	1000	**3**	**7**	**3**	<3	**9**	**3**	<3	**8**	**4**
Mercury	24	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	17500	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	1050000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	4530	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2-Dichlorobenzene	315000	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,4-Dichlorobenzene	24300	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4-Dimethylphenol	70000	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Methylnaphthalene	14000	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Methylphenol	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Methylphenol	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthene	210000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	1050000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Benzofluoranthenes	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzoic Acid	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzyl Alcohol	350000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bis(2-ethylhexyl)phthalate	9380	-----	-----	-----	-----	-----	-----	-----	-----	-----
Butylbenzylphthalate	69100	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(ah)anthracene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

Location Date Source Depth (feet) Units	Soil Contact Screening Level (c)	P2 Jul-08 (b) 15-15.5 (mg/kg)	P3 Jul-08 (b) 5-5.5 (mg/kg)	P3 Jul-08 (b) 10-10.5 (mg/kg)	P3 Jul-08 (b) 15-15.5 (mg/kg)	P4 Jul-08 (b) 5-5.5 (mg/kg)	P4 Jul-08 (b) 10-10.5 (mg/kg)	P4 Jul-08 (b) 15-15.5 (mg/kg)	P5 Jul-08 (b) 6-6.5 (mg/kg)	P5 Jul-08 (b) 10-10.5 (mg/kg)
Dibenzofuran	3500	-----	-----	-----	-----	-----	-----	-----	-----	-----
Diethylphthalate	2800000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dimethylphthalate	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Di-N-Butylphthalate	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Di-n-octyl phthalate	35000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	140000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	140000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Hexachlorobenzene	82	-----	-----	-----	-----	-----	-----	-----	-----	-----
Hexachlorobutadiene	1680	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(123-cd)pyrene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	70000	-----	-----	-----	-----	-----	-----	-----	-----	-----
N-Nitrosodiphenylamine	26800	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pentachlorophenol	328	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenanthrene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenol	1050000	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	105000	-----	-----	-----	-----	-----	-----	-----	-----	-----
BaPEq.-TEQ (see Table H.3b)	131	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pesticides/PCBs										
2,4'-DDD	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4'-DDE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4'-DDT	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4,4'-DDD	547	-----	-----	-----	-----	-----	-----	-----	-----	-----
4,4'-DDE	386	-----	-----	-----	-----	-----	-----	-----	-----	-----
4,4'-DDT	386	-----	-----	-----	-----	-----	-----	-----	-----	-----
Aldrin	7.7	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chlordane	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dieldrin	8.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Heptachlor	29.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lindane	119	-----	-----	-----	-----	-----	-----	-----	-----	-----
PCB 1016	see Total	<0.032	<3.5	<0.35	<0.16	<0.032	<0.032	<0.032	<1.2	<0.033
PCB 1221	see Total	<0.032	<3.5	<0.35	<0.16	<0.032	<0.032	<0.032	<1.2	<0.033
PCB 1232	see Total	<0.032	<3.5	<0.35	<0.16	<0.032	<0.032	<0.032	<1.2	<0.033
PCB 1242	see Total	**0.049**	<3.5	<0.35	<0.16	<0.032	<0.032	<0.032	**11**	**0.069**
PCB 1248	see Total	<0.032	**13**	**1.2**	**0.36**	<0.29	<0.032	<0.032	<1.2	<0.033
PCB 1254	see Total	<0.032	**6.2**	**0.5**	**0.25**	<0.097	<0.032	<0.032	**1.7**	<0.033
PCB 1260	see Total	<0.032	**8.9**	**0.72**	**0.28**	<0.065	<0.032	<0.032	<1.2	<0.033
Total PCBs	10	**0.05**	**28**	**2.4**	**0.89**	<0.032	<0.032	<0.032	**13**	**0.07**

Notes:

(a) - SAIC 2007
(b) - By DOF
(c) - Based on an industrial landuse
MO - Motor oil fuel pattern
DRO - Diesel range organics - pattern not match standard
RRO - Residual range organics - pattern not match standard
D - Diesel fuel pattern
< - Not detected at indicated reporting level
- Shading indicates exceedance of industrial land use screening level

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

Location Date Source Depth (feet) Units	Soil Contact Screening Level (c)	P5 Jul-08 (b) 15-15.5 (mg/kg)	P6 Jul-08 (b) 5-5.5 (mg/kg)	P6 Jul-08 (b) 10-10.5 (mg/kg)	P6 Jul-08 (b) 15-15.5 (mg/kg)	P7 Jul-08 (b) 5-5.5 (mg/kg)	P7 Jul-08 (b) 10-10.5 (mg/kg)	P7 Jul-08 (b) 15-15.5 (mg/kg)	P8 Jul-08 (b) 0.5-1 (mg/kg)	P8 Jul-08 (b) 5-5.5 (mg/kg)	P8 Jul-08 (b) 10-10.5 (mg/kg)
Observations	-----	no sheen	no sheen	sheen	no sheen	no sheen	no sheen	no sheen	heavy sheen	no sheen	sl sheen
Total Solids (%)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Organic Carbon (%)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Petroleum Hydrocarbons											
Gasoline Range Organics	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Diesel Range Organics (DRO)	2000	**30**	**200**	**780**	**18**	**130**	**9.2**	<6.4	**11000**	**100**	**1500**
Motor-Oil Range Organics (RRO)	2000	**31**	**640**	**1200**	**66**	**460**	**30**	**15**	**24000**	**230**	**3400**
Total DRO+RRO	2000	**61**	**840**	**1980**	**84**	**590**	**39.2**	**15**	**35000**	**330**	**4900**
Type	-----	DRO/MO	D/MO	D/MO	DRO/RRO	DRO/MO	DRO/MO	MO	D/MO	D/MO	DRO/MO
Total Metals											
Arsenic	87.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	3500	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	10500	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	140000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	1000	**3**	**219**	**150**	**3**	**178**	**4**	**3**	**687**	**39**	**161**
Mercury	24	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver	17500	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	1050000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Semivolatile Organic Compounds											
1,2,4-Trichlorobenzene	4530	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,2-Dichlorobenzene	315000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1,4-Dichlorobenzene	24300	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4-Dimethylphenol	70000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Methylnaphthalene	14000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-Methylphenol	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4-Methylphenol	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthene	210000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthylene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	1050000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(ghi)perylene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Benzofluoranthenes	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzoic Acid	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzyl Alcohol	350000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bis(2-ethylhexyl)phthalate	9380	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Butylbenzylphthalate	69100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(ah)anthracene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

Location Date Source Depth (feet) Units	Soil Contact Screening Level (c)	P5 Jul-08 (b) 15-15.5 (mg/kg)	P6 Jul-08 (b) 5-5.5 (mg/kg)	P6 Jul-08 (b) 10-10.5 (mg/kg)	P6 Jul-08 (b) 15-15.5 (mg/kg)	P7 Jul-08 (b) 5-5.5 (mg/kg)	P7 Jul-08 (b) 10-10.5 (mg/kg)	P7 Jul-08 (b) 15-15.5 (mg/kg)	P8 Jul-08 (b) 0.5-1 (mg/kg)	P8 Jul-08 (b) 5-5.5 (mg/kg)	P8 Jul-08 (b) 10-10.5 (mg/kg)
Dibenzofuran	3500	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Diethylphthalate	2800000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dimethylphthalate	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Di-N-Butylphthalate	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Di-n-octyl phthalate	35000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	140000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	140000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Hexachlorobenzene	82	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Hexachlorobutadiene	1680	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(123-cd)pyrene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	70000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
N-Nitrosodiphenylamine	26800	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pentachlorophenol	328	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenanthrene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenol	1050000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	105000	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BaPEq.-TEQ (see Table H.3b)	131	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pesticides/PCBs											
2,4'-DDD	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4'-DDE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2,4'-DDT	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4,4'-DDD	547	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4,4'-DDE	386	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4,4'-DDT	386	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Aldrin	7.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chlordane	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dieldrin	8.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Heptachlor	29.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lindane	119	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PCB 1016	see Total	<0.031	<0.031	<0.29	<0.032	<0.032	<0.032	<0.032	<9	<0.033	<0.38
PCB 1221	see Total	<0.031	<0.031	<0.29	<0.032	<0.032	<0.032	<0.032	<9	<0.033	<0.38
PCB 1232	see Total	<0.031	<0.031	<0.29	<0.032	<0.032	<0.032	<0.032	<9	<0.033	<0.38
PCB 1242	see Total	<0.031	<0.031	<0.29	<0.032	<0.032	<0.032	<0.032	**48**	<0.033	<0.38
PCB 1248	see Total	<0.031	<0.076	**1.7**	<0.032	<0.032	<0.032	<0.032	<9	<0.033	**0.93**
PCB 1254	see Total	<0.031	**0.13**	**1.2**	<0.032	**0.087**	<0.032	<0.032	**36**	**0.057**	**1.0**
PCB 1260	see Total	<0.031	**0.062**	**0.52**	<0.032	**0.054**	<0.032	<0.032	**35**	<0.033	**0.61**
Total PCBs	10	<0.031	**0.19**	**3.4**	<0.032	**0.14**	<0.032	<0.032	**119**	**0.06**	**2.5**

Notes:

(a) - SAIC 2007
(b) - By DOF
(c) - Based on an industrial landuse
MO - Motor oil fuel pattern
DRO - Diesel range organics - pattern not match standard
RRO - Residual range organics - pattern not match standard
D - Diesel fuel pattern
< - Not detected at indicated reporting level
- Shading indicates exceedance of industrial land use screening level

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

Location Date Source Depth (feet) Units	Soil Contact Screening Level (c)	P8 Jul-08 (b) 15-15.5 (mg/kg)	P9 Jul-08 (b) 2-2.5 (mg/kg)	P9 Jul-08 (b) 6-6.5 (mg/kg)	P9 Jul-08 (b) 10-10.5 (mg/kg)	P9 Jul-08 (b) 12-12.5 (mg/kg)	P10 Jul-08 (b) 5-5.5 (mg/kg)	P10 Jul-08 (b) 10-10.5 (mg/kg)	P10 Jul-08 (b) 17.5-18 (mg/kg)	Max. Detected Conc. (mg/kg)
Observations	-----	no sheen	no sheen	no sheen	no sheen	no sheen	no sheen	no sheen	no sheen	-----
Total Solids (%)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Organic Carbon (%)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Petroleum Hydrocarbons										
Gasoline Range Organics	30	-----	-----	-----	-----	-----	-----	-----	-----	**260**
Diesel Range Organics (DRO)	2000	**29**	**22**	**58**	**940**	**310**	<6.1	<6.8	<6.8	**15000**
Motor-Oil Range Organics (RRO)	2000	**80**	**34**	**240**	**3100**	**230**	**13**	**19**	**17**	**49000**
Total DRO+RRO	2000	**109**	**56**	**298**	**4040**	**540**	**19.1**	**25.8**	**23.8**	**64000**
Type	-----	DRO/MO	DRO/MO	DRO/MO	DRO/MO	DRO/MO	MO	MO	MO	-----
Total Metals										
Arsenic	87.5	-----	-----	-----	-----	-----	-----	-----	-----	**11.7**
Cadmium	3500	-----	-----	-----	-----	-----	-----	-----	-----	**0.86**
Chromium	10500	-----	-----	-----	-----	-----	-----	-----	-----	**56.6**
Copper	140000	-----	-----	-----	-----	-----	-----	-----	-----	**284**
Lead	1000	**21**	**4**	**25**	**52**	**52**	**4**	**3**	**3**	**3570**
Mercury	24	-----	-----	-----	-----	-----	-----	-----	-----	**2.0**
Silver	17500	-----	-----	-----	-----	-----	-----	-----	-----	**0.45**
Zinc	1050000	-----	-----	-----	-----	-----	-----	-----	-----	**220**
Semivolatile Organic Compounds										
1,2,4-Trichlorobenzene	4530	-----	-----	-----	-----	-----	-----	-----	-----	**0.058**
1,2-Dichlorobenzene	315000	-----	-----	-----	-----	-----	-----	-----	-----	**0.98**
1,4-Dichlorobenzene	24300	-----	-----	-----	-----	-----	-----	-----	-----	**2.4**
2,4-Dimethylphenol	70000	-----	-----	-----	-----	-----	-----	-----	-----	nd
2-Methylnaphthalene	14000	-----	-----	-----	-----	-----	-----	-----	-----	**17**
2-Methylphenol	-----	-----	-----	-----	-----	-----	-----	-----	-----	nd
4-Methylphenol	-----	-----	-----	-----	-----	-----	-----	-----	-----	nd
Acenaphthene	210000	-----	-----	-----	-----	-----	-----	-----	-----	**0.82**
Acenaphthylene	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.063**
Anthracene	1050000	-----	-----	-----	-----	-----	-----	-----	-----	**0.91**
Benzo(a)anthracene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	**0.45**
Benzo(a)pyrene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	**0.28**
Benzo(b)fluoranthene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	**0.3**
Benzo(ghi)perylene	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.22**
Benzo(k)fluoranthene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	**0.12**
Total Benzofluoranthenes	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	**0.42**
Benzoic Acid	-----	-----	-----	-----	-----	-----	-----	-----	-----	nd
Benzyl Alcohol	350000	-----	-----	-----	-----	-----	-----	-----	-----	nd
Bis(2-ethylhexyl)phthalate	9380	-----	-----	-----	-----	-----	-----	-----	-----	**2.7**
Butylbenzylphthalate	69100	-----	-----	-----	-----	-----	-----	-----	-----	**0.11**
Chrysene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	**0.78**
Dibenzo(ah)anthracene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	nd

TABLE H.3a - Results of Soil Sample Analyses -2007 and 2008

Location Date Source Depth (feet) Units	Soil Contact Screening Level (c)	P8 Jul-08 (b) 15-15.5 (mg/kg)	P9 Jul-08 (b) 2-2.5 (mg/kg)	P9 Jul-08 (b) 6-6.5 (mg/kg)	P9 Jul-08 (b) 10-10.5 (mg/kg)	P9 Jul-08 (b) 12-12.5 (mg/kg)	P10 Jul-08 (b) 5-5.5 (mg/kg)	P10 Jul-08 (b) 10-10.5 (mg/kg)	P10 Jul-08 (b) 17.5-18 (mg/kg)	Max. Detected Conc. (mg/kg)
Dibenzofuran	3500	-----	-----	-----	-----	-----	-----	-----	-----	**0.68**
Diethylphthalate	2800000	-----	-----	-----	-----	-----	-----	-----	-----	nd
Dimethylphthalate	-----	-----	-----	-----	-----	-----	-----	-----	-----	nd
Di-N-Butylphthalate	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.15**
Di-n-octyl phthalate	35000	-----	-----	-----	-----	-----	-----	-----	-----	nd
Fluoranthene	140000	-----	-----	-----	-----	-----	-----	-----	-----	**1.9**
Fluorene	140000	-----	-----	-----	-----	-----	-----	-----	-----	**1.9**
Hexachlorobenzene	82	-----	-----	-----	-----	-----	-----	-----	-----	nd
Hexachlorobutadiene	1680	-----	-----	-----	-----	-----	-----	-----	-----	nd
Indeno(123-cd)pyrene	See BaPEq	-----	-----	-----	-----	-----	-----	-----	-----	**0.2**
Naphthalene	70000	-----	-----	-----	-----	-----	-----	-----	-----	**3.6**
N-Nitrosodiphenylamine	26800	-----	-----	-----	-----	-----	-----	-----	-----	nd
Pentachlorophenol	328	-----	-----	-----	-----	-----	-----	-----	-----	**0.37**
Phenanthrene	-----	-----	-----	-----	-----	-----	-----	-----	-----	**7**
Phenol	1050000	-----	-----	-----	-----	-----	-----	-----	-----	**0.038**
Pyrene	105000	-----	-----	-----	-----	-----	-----	-----	-----	**2.7**
BaPEq.-TEQ (see Table H.3b)	131	-----	-----	-----	-----	-----	-----	-----	-----	**0.37**
Pesticides/PCBs										
2,4'-DDD	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.19**
2,4'-DDE	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.0033**
2,4'-DDT	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.41**
4,4'-DDD	547	-----	-----	-----	-----	-----	-----	-----	-----	**0.0049**
4,4'-DDE	386	-----	-----	-----	-----	-----	-----	-----	-----	**1.9**
4,4'-DDT	386	-----	-----	-----	-----	-----	-----	-----	-----	**0.49**
Aldrin	7.7	-----	-----	-----	-----	-----	-----	-----	-----	nd
Chlordane	-----	-----	-----	-----	-----	-----	-----	-----	-----	**0.032**
Dieldrin	8.2	-----	-----	-----	-----	-----	-----	-----	-----	nd
Heptachlor	29.2	-----	-----	-----	-----	-----	-----	-----	-----	nd
Lindane	119	-----	-----	-----	-----	-----	-----	-----	-----	**0.0012**
PCB 1016	see Total	<0.032	<0.032	<0.033	<0.56	<0.032	<0.033	<0.031	<0.032	nd
PCB 1221	see Total	<0.032	<0.032	<0.033	<0.56	<0.032	<0.033	<0.031	<0.032	nd
PCB 1232	see Total	<0.032	<0.032	<0.033	<0.56	<0.032	<0.033	<0.031	<0.032	nd
PCB 1242	see Total	<0.032	<0.032	<0.033	<0.56	<0.032	<0.033	<0.031	<0.032	**51**
PCB 1248	see Total	<0.032	<0.032	<0.033	**2.6**	<0.032	<0.033	<0.031	<0.032	**13**
PCB 1254	see Total	<0.032	<0.032	**0.071**	**2.4**	<0.032	<0.033	<0.031	<0.032	**36**
PCB 1260	see Total	<0.032	<0.032	**0.099**	**1.3**	<0.032	<0.033	<0.031	<0.032	**76**
Total PCBs	10	<0.032	<0.032	**0.17**	**6.3**	<0.032	<0.033	<0.031	<0.032	**119**

Notes:

(a) - SAIC 2007
(b) - By DOF
(c) - Based on an industrial landuse
MO - Motor oil fuel pattern
DRO - Diesel range organics - pattern not match standard
RRO - Residual range organics - pattern not match standard
D - Diesel fuel pattern
< - Not detected at indicated reporting level
- Shading indicates exceedance of industrial land use screening level

TABLE H.3b - BaPEq-TEQ Calculations -2007 Soil Data

ICS/NW Cooperage Site
Seattle, WA

cPAHs	Location Date Source Depth (feet) Units	SA-MW-1 Apr-07 (a) 5-6.5 (mg/kg)	Adjusted Conc. (mg/kg)	SA-MW-1 Apr-07 (a) 12.5-13.5 (mg/kg)	Adjusted Conc. (mg/kg)	SA-MW-2 Apr-07 (a) 7.5-8 (mg/kg)	Adjusted Conc. (mg/kg)	SA-MW-2 Apr-07 (a) 10-11.5 (mg/kg)	Adjusted Conc. (mg/kg)
	TEF(c)								
Benzo(a)anthracene	0.1	**0.45**	**0.045**	<0.05	-----	**0.038**	**0.004**	**0.046**	**0.0046**
Benzo(a)pyrene	1	<1	-----	<0.05	-----	<0.2	-----	**0.045**	**0.0450**
Benzo(b)fluoranthene	0.1	<1	-----	<0.05	-----	<0.2	-----	**0.051**	**0.0051**
Benzo(k)fluoranthene	0.1	<1	-----	<0.05	-----	<0.2	-----	**0.017**	**0.0017**
Chrysene	0.01	**0.78**	**0.008**	**0.01**	**0.0001**	**0.066**	**0.0007**	**0.054**	**0.0005**
Dibenzo(ah)anthracene	1	<1	-----	<0.05	-----	<0.2	-----	<0.040	-----
Indeno(123-cd)pyrene	0.1	<1	-----	<0.05	-----	<0.2	-----	**0.033**	**0.0033**
BaPEq.-TEQ (d)	-----	-----	**0.05**	-----	**0.0001**	-----	**0.004**	-----	**0.060**

cPAHs	Location Date Source Depth (feet) Units	SA-MW-2 Apr-07 (a) 15-16.5 (mg/kg)	Adjusted Conc. (mg/kg)	SA-MW-3 Apr-07 (a) 10-11.5 (mg/kg)	Adjusted Conc. (mg/kg)
	TEF(c)				
Benzo(a)anthracene	0.1	**0.26**	**0.026**	<0.01	**-----**
Benzo(a)pyrene	1	**0.28**	**0.280**	<0.01	**-----**
Benzo(b)fluoranthene	0.1	**0.3**	**0.030**	<0.01	**-----**
Benzo(k)fluoranthene	0.1	**0.12**	**0.012**	<0.01	**-----**
Chrysene	0.01	**0.31**	**0.003**	<0.01	**-----**
Dibenzo(ah)anthracene	1	<0.2	**-----**	<0.01	**-----**
Indeno(123-cd)pyrene	0.1	**0.2**	**0.020**	<0.01	**-----**
BaPEq.-TEQ (d)	-----	-----	**0.37**	-----	**nd**

Notes: (a) - SAIC 2007
(b) - By DOF
(c) - Toxicity Equivalency Factor
(d) - BaPEq.-TEQ - Benzo(a) Pyrene Equivalent Concentration-Toxicity Equivalency Quotient
nd - Not detected

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	% solids %	pH SU	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry
Screening Level (a)						1400	87.5	7000	3500	10,500	140,000
ICS-LP1-SO-A	3 - 5'	10/15/12	VN72	90	-----	**0.4 JR**	**14.5**	**0.2**	**0.4**	**30.1**	**44.6**
ICS-LP1-SO-B	6.5 - 8'	10/15/12	VN72	58	7.41	0.3 U	**21.4**	**0.4**	**1.7**	**60.5**	**103**
ICS-LP1-SO-C	10.5 - 12'	10/15/12	VN72	75	-----	0.3 U	**2.2**	0.3 U	0.1 U	**12.9**	**19.7**
ICS-LP2-SO-A	3 - 5'	10/15/12	VN72	83	-----	0.2 U	**5.9**	0.2 U	**0.7**	**31.4**	**160**
ICS-LP2-SO-B	5.5 - 7.5'	10/15/12	VN72	73	7.45	0.3 U	**4.8**	0.3 U	0.1 U	**17.4**	**23.1**
ICS-LP2-SO-C	8 - 10'	10/15/12	VN72	72	-----	0.3 U	**3.4**	0.3 U	0.1 U	**12.6**	**23.2**
ICS-LP3-SO-A	3 - 5'	10/15/12	VN72	94		0.2 U	**2.7**	0.2 U	**0.4**	**41.0**	**24.6**
ICS-LP3-SO-B	6 - 8'	10/15/12	VN72	82	6.85	**0.8 JR**	**6.7**	0.2 U	**5.8**	**910**	**450**
ICS-LP3-SO-C	10 - 12'	10/15/12	VN72	75	-----	0.3 U	**3.4**	0.3 U	0.1 U	**21.1**	**24.1**
ICS-LP3-SO-D	15 - 16'	10/15/12	XD56	80	-----	0.2 U	**1.5**	0.2 U	**0.2**	**18.0**	**11.7**
ICS-LP4-SO-A	8 - 10'	10/15/12	VN72	81	-----	0.2 U	**5.2**	**0.3**	**0.7**	**66.3**	**38.7**
ICS-LP4-SO-B	10 - 12'	10/15/12	VN72	67	8.34	0.3 U	**10.1**	**0.4**	**0.8**	**37.4**	**41.7**
ICS-LP4-SO-C	14 - 15'	10/15/12	VN72	77	-----	0.2 U	**1.3**	0.2 U	0.1 U	**10.2**	**9.6**
ICS-DOF-MW1-A	4 - 5'	10/15/12	VN71	92	-----	0.2 U	**3.0**	0.2 U	0.1 U	**15.8**	**14.0**
ICS-DOF-MW1-B	6.5 - 7.5'	10/15/12	VN71	72	-----	0.3 U	**3.2**	0.3 U	0.1 U	**15.0**	**22.1**
ICS-DOF-MW1-C	11 - 12'	10/15/12	VN71	71	-----	0.3 U	**2.0**	0.3 U	**0.1**	**13.6**	**17.3**
ICS-DOF-MW2-A	2 - 3'	10/16/12	VO10	97	-----	0.2 U	**2.0**	0.2 U	0.1 U	**10.0**	**9.6**
ICS-DOF-MW2-B	8 - 9'	10/16/12	VO10	85	-----	0.2 U	**2.5**	0.2 U	0.1 U	**12.9**	**14.9**
ICS-DOF-MW2-C	12 - 13'	10/16/12	VO10	71	-----	0.3 U	**4.7**	**0.4**	0.1 U	**19.6**	**26.5**
ICS-DOF-MW3-A	2 - 4'	10/16/12	VO10	93	-----	0.2 U	**2.4**	0.2 U	0.1 U	**10.5**	**10.4**
ICS-DOF-DUP1	dup of MW3-A	10/16/12	VO10	93	-----	0.2 U	**2.7**	0.2 U	0.1 U	**10.9**	**10.2**
ICS-DOF-MW3-B	7 - 8'	10/16/12	VO10	85	-----	0.2 U	**2.1**	0.2 U	0.1 U	**11.2**	**11.7**
ICS-DOF-MW4-A	3 - 4'	10/17/12	VO10	89	-----	0.2 U	**2.4**	0.2 U	0.1 U	**10.5**	**10.8**
ICS-DOF-MW4-B	7 - 8'	10/17/12	VO10	75	-----	0.2 U	**2.8**	**0.3**	**0.1**	**12.0**	**17.7**
ICS-DOF-MW4-C	10 - 11'	10/17/12	VO10	78	-----	0.2 U	**2.0**	0.2 U	**0.1**	**12.8**	**22.7**
ICS-DOF-MW5-A	3 - 4'	10/17/12	VO11	91	-----	0.2 U	**2.2**	0.2 U	0.1 U	**9.6**	**12.9**
ICS-DOF-MW5-B	7 - 8'	10/17/12	VO11	77	-----	0.2 U	**2.0**	0.2 U	0.1 U	**10.0**	**11.2**
ICS-DOF-MW6-A	3 - 5'	10/17/12	VO11	79	-----	0.2 U	**3.0**	0.2 U	0.1 U	**11.8**	**13.9**
ICS-DOF-MW6-B	6 - 8'	10/17/12	VO11	78	-----	0.3 U	**2.6**	0.3 U	0.1 U	**11.6**	**13.0**
ICS-DOF-DUP2	dup of MW6-B	10/17/12	VO11	78	-----	0.3 U	**3.0**	0.3 U	0.1 U	**12.8**	**14.9**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	% solids %	pH SU	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry
Screening Level (a)						1400	87.5	7000	3500	10,500	140,000
ICS-DOF-MW6-C	9 - 10'	10/17/12	VO11	62	-----	0.3 U	**8.0**	**0.3**	0.1 U	**17.3**	**28.0**
ICS-DOF-MW7-A	3 - 4'	10/16/12	VO10	77	-----	0.3 U	**3.5**	0.3 U	0.1 U	**13.0**	**18.2**
ICS-DOF-MW7-B	7 - 8'	10/16/12	VO10	72	-----	0.3 U	**3.2**	0.3 U	0.1 U	**14.7**	**21.6**
ICS-DOF-MW7-C	11 - 12'	10/16/12	VO10	70	-----	0.3 U	**2.6**	0.3 U	0.1 U	**13.1**	**20.8**
ICS-DOF-MW8-A	3 - 4'	10/16/12	VO10	95	-----	0.2 U	**1.7**	0.2 U	0.1 U	**8.4**	**10.2**
ICS-DOF-MW8-B	7 - 8'	10/16/12	VO10	73	-----	0.3 U	**2.5**	0.3 U	0.1 U	**14.4**	**20.9**
ICS-DOF-MW8-C	11 - 12'	10/16/12	VO10	74	-----	0.3 U	**3.2**	0.3 U	0.1 U	**12.9**	**18.3**
ICS-LP4-NAPL	4 - 5'	10/15/12	VN72	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	11/17/14	ZK75	78.7	-----	0.2 U	**1.4**	0.2 U	0.1 U	**10.4**	**13.6**
ICS-P11-SO-10	9.5 - 11'	11/17/14	ZK75	64.2	-----	0.3 U	**5.2**	0.3 U	0.1 U	**16.2**	**29.3**
ICS-P11-SO-16	15 - 17'	11/17/14	ZK75	80.7	-----	0.2 U	**0.8**	0.2 U	0.1 U	**8.4**	**9**
ICS-P12-SO-4	3 - 4.5'	11/17/14	ZK75	89.1	-----	0.2 U	**1**	0.2 U	0.1 U	**10.1**	**9.9**
ICS-P12-SO-7	6 - 8'	11/17/14	AKB5	79	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	11/17/14	ZK75	68.2	-----	0.3 U	**4.7**	0.3 U	0.1 U	**14.2**	**22.4**
ICS-P12-SO-13	12 - 14'	11/17/14	ZK75	68.6	-----	0.3 U	**3.6**	0.3 U	0.1 U	**13.7**	**20.1**
ICS-P12-SO-16	15 - 17'	11/17/14	ZK75	75	-----	0.3 U	**3.6**	0.3 U	0.1 U	**12.5**	**18.5**
ICS-P13-SO-4	4 - 6'	11/13/14	ZK33	89.3	-----	0.2 U	**6.2**	0.2 U	**0.5**	**36**	**21.1**
ICS-P13-SO-7	6 -8'	11/13/14	AKB5	90	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	11/13/14	ZK33	78.1	-----	0.2 U	**1.4**	0.2 U	0.1 U	**11.4**	**11.5**
ICS-P13-SO-17	16.5 - 18'	11/13/14	ZK33	79.4	-----	0.2 U	**2.2**	0.2 U	0.1 U	**12**	**12.4**
ICS-P14-SO-4	3 - 5'	11/14/14	ZK50	83.3	-----	0.2 U	**2.5**	0.2 U	**0.4**	**69.4**	**13.3**
ICS-P14-SO-7	6 - 8'	11/14/15	AKB6	78	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	11/14/14	ZK50	71.3	-----	0.3 U	**3.4**	0.3 U	0.1 U	**14.8**	**20.6**
ICS-P14-SO-16	15 - 17'	11/14/14	ZK50	78	-----	0.2 U	**1.9**	0.2 U	0.1 U	**11.4**	**12.6**
ICS-P15-SO-4	3 - 5'	11/14/14	ZK50	81.2	-----	0.2 U	**3**	0.2 U	**0.3**	**16.6**	**34.9**
ICS-P15-SO-7	6 - 8'	11/14/15	AKB6	76	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	11/14/14	ZK50	67.9	-----	0.3 U	**4.6**	0.3 U	**0.3**	**16.4**	**25.3**
ICS-P15-SO-16	15 - 17'	11/14/14	ZK50	78.2	-----	0.2 U	**1.4**	0.2 U	0.1 U	**8.7**	**9.5**
ICS-P16-SO-4	3 - 4'	12/10/14	ZO28	94.8	-----	0.2 U	**4**	0.2 U	**0.3**	**15.9**	**11.2**
ICS-P16-SO-7	6 - 8'	12/10/15	AKB6	73		-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	12/10/14	ZO28	72.8	-----	0.3 U	**2.3**	0.3 U	0.1 U	**12.9**	**18.5**
ICS-P16-SO-16	15 - 17'	12/10/14	ZO28	74.4	-----	0.3 U	**1.8**	0.3 U	0.1 U	**11**	**14.8**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	% solids %	pH SU	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry
Screening Level (a)						1400	87.5	7000	3500	10,500	140,000
ICS-P17-SO-4	4.5 - 6.5'	11/12/14	ZK10	75.7	-----	0.3 U	**1.8**	0.3 U	0.1 U	**12.3**	**11.1**
ICS-P17-SO-7	6.7 - 8'	11/12/14	AKB5	76		-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	11/12/14	ZK10	65.5	-----	0.3 U	**6.5**	**0.3**	0.1 U	**14**	**22.4**
ICS-P17-SO-13	12 - 14'	11/12/14	AKB5	78		-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	11/12/14	ZK10	82.2	-----	0.2 U	**2.3**	0.2 U	0.1 U	**12**	**13.2**
ICS-P17-SO-22	21 - 23'	11/12/14	AKB5	83	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	12/16/14	ZP53	92.3	-----	0.2 U	**2.7**	0.2 U	**0.4**	**24.3**	**19.7**
ICS-P18-SO-7	6 - 8'	12/16/14	AKB5	87	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	12/16/14	ZP53	86.1	-----	0.2 U	**3.8**	0.2 U	**0.4**	**60.4**	**21.1**
ICS-P18-SO-13	12 - 14'	12/16/14	AKB5	82	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	12/16/14	ZP53	78.9	-----	**0.3 JR**	**6.9**	0.3 U	**1**	**63.1**	**108**
ICS-P18-SO-22	21 - 23'	12/16/14	AKB5	76	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	12/16/14	ZP53	81.1	-----	0.2 U	**0.7**	0.2 U	0.1 U	**9.9**	**7.5**
ICS-P18-SO-42	41 - 43'	12/16/14	AKB5	79	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	12/16/14	ZP53	91.6	-----	0.2 U	**3.9**	0.2 U	**0.3**	**30.8**	**19.2**
ICS-P19-SO-10	9 - 10'	12/16/14	ZP53	75.1	-----	0.3 U	**3.9**	0.3 U	0.1 U	**15.1**	**21**
ICS-P19-SO-13	12 - 14'	12/16/14	AKB5	75	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	12/16/14	ZP53	78.4	-----	0.3 U	**2.4**	0.3 U	0.1 U	**11.7**	**21.8**
ICS-P19-SO-22	21 - 23'	12/16/14	AKB5	74	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	11/12/14	ZK10	93.7	-----	0.2 U	**4.3**	0.2 U	0.1 U	**10**	**11.6**
ICS-P20-SO-10	9.5 - 11'	11/12/14	ZK10	72.6	-----	0.3 U	**3.4**	0.3 U	0.1 U	**12**	**19.1**
ICS-P20-SO-13	12 - 14'	11/12/14	AKB5	72	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	11/12/14	ZK10	73.9	-----	0.2 U	**2**	0.2 U	0.1 U	**12**	**16.4**
ICS-P21-SO-7	6 - 8'	12/8/14	ZN97	83.9	-----	0.2 U	**3.3**	0.2 U	**0.3**	**32.1**	**27.5**
ICS-P21-SO-13	12 - 14'	12/8/14	ZN97	70.2	-----	0.3 U	**4.7**	**0.3**	**0.3**	**23**	**21.7**
ICS-P21-SO-16	15 - 17'	12/8/14	ZN97	74.3	-----	0.3 U	**2.4**	0.3 U	0.1 U	**11.1**	**17.6**
ICS-P21-SO-22	21 - 23'	12/8/14	AKB6	74	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	12/8/14	ZN97	80	-----	0.2 U	**0.7**	0.2 U	0.1 U	**9.5**	**9.8**
ICS-P22-SO-4	3 - 4.5'	11/14/14	ZK50	89.2	-----	0.2 U	**3.1**	0.2 U	**0.2**	**19.1**	**16.1**
ICS-P22-SO-7	6 - 8'	11/14/14	AKB6	85	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	11/14/14	ZK50	75.9	-----	0.3 U	**3.2**	0.3 U	0.1 U	**13.6**	**20.1**
ICS-P22-SO-13	12 - 14'	11/14/14	AKB6	72	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	% solids %	pH SU	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry
Screening Level (a)						1400	87.5	7000	3500	10,500	140,000
ICS-P22-SO-16	15 - 17'	11/14/14	ZK50	70.3	-----	0.3 U	**2.6**	0.3 U	0.1 U	**12.9**	**21.9**
ICS-P23-SO-3	2 - 4'	11/12/14	ZK10	93.4	-----	0.2 U	**6.3**	0.2 U	**0.4**	**10.2**	**107**
ICS-P23-SO-10	9.5 - 11	11/12/14	ZK10	72.3	-----	0.3 U	**3.3**	0.3 U	0.1 U	**13**	**20.7**
ICS-P23-SO-13	12 - 14'	11/12/14	AKB5	74	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	11/12/14	ZK10	74.5	-----	0.3 U	**1.9**	0.3 U	0.1 U	**11.2**	**16.5**
ICS-P24-SO-4	3 - 5'	11/13/14	ZK33	89	-----	0.2 U	**2.3**	0.2 U	**0.2**	**17**	**12.1**
ICS-P24-SO-10	9 - 10.5'	11/13/14	ZK33	77.7	-----	0.3 U	**3.7**	0.3 U	**0.2**	**20**	**16**
ICS-P24-SO-13	12 - 14'	11/13/14	AKB5	75	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	11/13/14	ZK33	78.9	-----	0.2 U	**1**	0.2 U	0.1 U	**10**	**8.8**
ICS-P25-SO-3	1 - 3'	11/11/14	ZJ92	88	-----	0.2 U	**6.2**	0.2 U	**0.3**	**21.1**	**21.9**
ICS-P25-SO-10	9 - 11'	11/11/14	ZJ92	75.4	-----	0.3 U	**2.9**	0.3 U	0.1 U	**12.3**	**16.5**
ICS-P25-SO-13	12 - 14'	11/11/14	AKB5	73	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	11/11/14	ZJ92	76.4	-----	0.2 U	**1.6**	0.2 U	0.1 U	**9.9**	**11.9**
ICS-P26-SO-4	3 - 5'	11/13/14	ZK33	89.3	-----	0.2 U	**25.7**	**0.3**	**0.4**	**31**	**37.8**
ICS-P26-SO-7	6 - 8'	11/13/14	AKB5	73	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	11/13/14	ZK33	67.7	-----	0.3 U	**2.7**	0.3 U	0.1 U	**13.3**	**22.7**
ICS-P26-SO-16	15 - 17'	11/13/14	ZK33	72.3	-----	0.3 U	**2.5**	0.3 U	0.1 U	**13.8**	**21.9**
ICS-P27-SO-3	1 - 3'	11/11/14	ZJ92	78.1	-----	**0.3 JR**	**10.9**	0.2 U	**2.2**	**29.3**	**340**
ICS-P27-SO-7	6 - 8'	11/11/14	AKB5	71	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	11/11/14	ZJ92	69.3	-----	0.3 U	**3.9**	0.3 U	**0.4**	**17.2**	**68.5**
ICS-P27-SO-13	12 - 14'	11/11/14	AKB5	71	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	11/11/14	ZJ92	79.8	-----	0.2 U	**0.9**	0.2 U	0.1 U	**9.8**	**10.6**
ICS-P27-SO-32	31 - 33'	11/11/14	ZJ92	78.1	-----	0.3 U	**1.3**	0.3 U	0.1 U	**11.5**	**14.5**
ICS-P28-SO-4	3 - 5'	12/15/14	ZP37	71.8	-----	0.3 U	**5.3**	**0.3**	0.1 U	**11.5**	**15.9**
ICS-P28-SO-10	8.5 - 10'	12/15/14	ZP37	56	-----	0.3 U	**4.6**	**0.4**	0.2 U	**14**	**25.1**
ICS-P28-SO-16	15 - 17'	12/15/14	ZP37	81.4	-----	0.2 U	**1.7**	**0.3**	0.1 U	**8.7**	**10.2**
ICS-P28-SO-22	21 - 23'	12/15/14	AKB5	83	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	12/15/14	ZP37	80.3	-----	0.2 U	**0.8**	0.2 U	0.1 U	**7.1**	**6.3**
ICS-P29-SO-4	3 - 4'	12/10/14	ZO28	81.8	-----	**1.3 JR**	**12.2**	**0.2**	**8.1**	**755**	**205**
ICS-P29-SO-7	6 - 8'	12/10/14	AKB6	77	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	12/10/14	ZO28	71	-----	0.3 U	**0.8**	**0.6**	0.1 U	**21.5**	**21.1**
ICS-P29-SO-16	15 - 17'	12/10/14	ZO28	75.7	-----	0.3 U	**1.7**	0.3 U	0.1 U	**11.8**	**14.7**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	% solids %	pH SU	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry
Screening Level (a)						1400	87.5	7000	3500	10,500	140,000
ICS-DUP2	P29-SO-16	12/10/14	ZO28	75.8	-----	0.2 U	**1.7**	0.2 U	0.1 U	**12.2**	**13.7**
ICS-P29-SO-22	21 - 23'	12/10/14	AKB6	72	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	12/10/14	ZO28	72.9	-----	0.3 U	**2.4**	0.3 U	0.1 U	**11.3**	**17.1**
ICS-P29-SO-42	41 - 43'	12/10/14	AKB6	78	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	12/10/14	AKB6	81	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	12/9/14	ZO01	90.4	-----	0.2 U	**2.7**	0.2 U	**0.4**	**46.1**	**58.8**
ICS-P30-SO-10	9 - 10'	12/9/14	AKB6	79	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	12/9/14	ZO01	84.6	-----	0.2 U	**4.4**	**0.2**	**0.6**	**27.1**	**37.5**
ICS-P30-SO-16	15 - 16.5'	12/9/14	ZO01	61.5	-----	0.3 U	**7.6**	**0.3**	0.2 U	**19.7**	**29.2**
ICS-P30-SO-22	21 - 23'	12/9/14	AKB6	81	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	12/9/14	ZO01	82.8	-----	0.2 U	**1.3**	0.2 U	0.1 U	**8.7**	**9.4**
ICS-P30-SO-42	41 - 43'	12/9/14	AKB6	75	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	12/9/14	AKB6	79	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	12/9/14	ZO01	81.3	-----	0.2 U	**3.6**	0.2 U	0.1 U	**14.2**	**17.6**
ICS-P31-SO-10	9 - 11'	12/9/14	ZO01	74.5	-----	0.3 U	**1.6**	0.3 U	0.1 U	**12.9**	**13.3**
ICS-P31-SO-16	15 - 17'	12/9/14	ZO01	73.5	-----	0.3 U	**1.2**	0.3 U	0.1 U	**11.7**	**11.7**
ICS-P31-SO-32	31 - 33'	12/9/14	ZO01	79.8	-----	0.2 U	**3.6**	0.2 U	0.1 U	**8.7**	**8.9**
ICS-P32-SO-16	16 - 17.5'	12/15/14	ZP37	80.4	-----	0.2 U	**3.6**	**0.3**	0.1 U	**9.9**	**10.1**
ICS-SO-DUPL3	P32-SO-16	12/15/14	ZP37	81.9	-----	0.2 U	**1.9**	0.2 U	0.1 U	**9.4**	**9.2**
ICS-P32-SO-32	31 - 33'	12/15/14	ZP37	83.3	-----	0.2 U	**1.1**	**0.2**	0.1 U	**8.7**	**8.2**
ICS-P33-SO-16	15 - 17'	12/8/14	ZN97	73.8	-----	0.3 U	**1.9**	0.3 U	0.1 U	**13.2**	**19.7**
ICS-P33-SO-32	31 - 33'	12/8/14	ZN97	81.3	-----	0.2 U	**0.7**	0.2 U	0.1 U	**9.6**	**9.3**
ICS-P34-SO-4	3 - 5'	6/9/2015	AHN0	86	-----	0.2 U	**8.0**	**0.3**	**0.4**	**41.8**	**34.8**
ICS-P34-SO-10	9 - 11'	6/9/2015	AHN0	73	-----	0.3 U	**2.3**	**0.3**	0.1 U	**16.6**	**21.6**
ICS-P34-SO-16	15 - 17'	6/9/2015	AHN0	74	-----	0.3 U	**1.9**	0.3 U	**0.2**	**10.4**	**17.7**
ICS-P35-SO-4	3 - 5'	6/8/2015	AHL3	94	-----	0.2 U	**3.0**	0.2 U	**0.2**	**9.0**	**10.4**
ICS-P35-SO-10	9 - 11'	6/8/2015	AHL3	71	-----	0.3 U	**1.4**	0.3 U	0.1 U	**14.6**	**24.1**
ICS-P35-SO-16	15 - 17'	6/8/2015	AHL3	72	-----	0.3 U	**1.7**	0.3 U	**0.2**	**10.4**	**17.7**
ICS-P36-SO-4	3 - 4'	6/8/2015	AHL3	82	-----	0.3 U	**3.5**	**0.3**	**0.3**	**18.2**	**27.7**
ICS-P36-SO-10	10 - 12'	6/8/2015	AHL3	71	-----	0.3 U	**3.2**	0.3 U	0.1 U	**12.9**	**22.8**
ICS-P36-SO-16	15 - 17'	6/8/2015	AHL3	74	-----	0.3 U	**4.6**	**0.3**	0.1 U	**17.1**	**24.8**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	% solids %	pH SU	Antimony mg/kg, dry	Arsenic mg/kg, dry	Beryllium mg/kg, dry	Cadmium mg/kg, dry	Chromium mg/kg, dry	Copper mg/kg, dry
Screening Level (a)						1400	87.5	7000	3500	10,500	140,000
ICS-Ap-10-SO	9 - 10'	10/5/15	AOE4	71	-----	0.3 U	**2.6**	0.3 U	0.1 U	**12.3**	**16.4**
ICS-Bp-10-SO	9 - 10'	10/5/15	AOE4	79	-----	0.2 U	**3.9**	0.02 U	0.1 U	**10.5**	**14.3**
ICS-Cp-10-SO	9 - 10'	10/7/15	AOE4	69	-----	0.3 U	**5.0**	0.3 U	0.1 U	**14.4**	**20.7**
ICS-Du-10-SO	9 - 10'	10/5/15	AOE4	76	-----	0.3 U	**2.4**	0.3 U	0.1 U	**12.8**	**18.5**
ICS-Du-16-SO	15 - 17'	10/5/15	AOE4	82	-----	0.2 U	**1.1**	0.2 U	0.1 U	**9.1**	**7.9**
ICS-FL-4-SO	3 - 5'	10/8/15	AOE4	95	-----	0.2 U	**2.2**	0.2 U	0.1 U	**8.1**	**7.7**
ICS-FL-7-SO	6 - 8'	10/8/15	AOE4	81	-----	0.2 U	**3.3**	0.2 U	0.1 U	**10.5**	**15.1**
ICS-FL-10-SO	9 - 10'	10/8/15	AOE4	84	-----	0.2 U	**4.0**	0.2 U	0.1 U	**12.9**	**12.0**
ICS-FL-13-SO	12 - 14'	10/8/15	AOE4	77	-----	0.2 U	**2.9**	0.2 U	0.1 U	**11.6**	**15.3**
ICS-FL-16-SO	15.5 - 17'	10/8/15	AOE4	81	-----	0.2 U	**1.3**	0.2 U	0.1 U	**9.9**	**9.2**
ICS-FL-21-SO	20 - 22'	10/8/15	AOE4	78	-----	0.3 U	**4.7**	0.3 U	0.1 U	**14.2**	**11.0**
ICS-Ju-4-SO	3 - 4'	10/7/15	AOE4	85	-----	0.2 U	**4.5**	**0.2**	**0.2**	**23.4**	**23.7**
ICS-Ju-10-SO	10- 11'	10/7/15	AOE4	73	-----	0.2 U	**12**	0.2 U	**0.9**	**40.2**	**161**
ICS-Ju-15-SO	15 - 16	10/7/15	AOE4	74	-----	0.3 U	**2.4**	0.3 U	0.1 U	**15.2**	**13.6**
Number of Samples						137	137	137	137	137	137
Number of Detections						5	137	24	40	137	137
Percent Detected						3.6%	100.0%	17.5%	29.2%	100.0%	100.0%
Highest Conc.						1.3	25.7	0.6	8.1	910	450

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons		
								Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	MO-range mg/kg, dry
Screening Level (a)		1000	2	70,000	17,500	1,050,000	-----	100	2000 (DRO+RRO)	
ICS-LP1-SO-A	3 - 5'	**403**	**0.14**	**36.7**	0.2 U	**90**	-----	-----	**23**	**70**
ICS-LP1-SO-B	6.5 - 8'	**448**	**3.1**	**31.5**	**0.8**	**349**	-----	-----	**820**	**1700**
ICS-LP1-SO-C	10.5 - 12'	**2.5**	0.3 U	**10.0**	0.3 U	**30**	-----	-----	**8.2**	**18**
ICS-LP2-SO-A	3 - 5'	**106**	**0.18**	**52.7**	0.2 U	**238**	-----	-----	**7.2**	**31**
ICS-LP2-SO-B	5.5 - 7.5'	**4.3**	**0.06**	**13.3**	0.3 U	**95**	-----	-----	6.8 U	14 U
ICS-LP2-SO-C	8 - 10'	**3.4**	**0.03**	**9.0**	0.3 U	**85**	-----	-----	6.9 U	14 U
ICS-LP3-SO-A	3 - 5'	**110**	**0.37**	**21.6**	0.2 U	**165**	-----	-----	**32**	**100**
ICS-LP3-SO-B	6 - 8'	**3600**	**8.7**	**54.5**	**0.4**	**2120**		*incl lt HC solvent*	**6200**	**11,000**
ICS-LP3-SO-C	10 - 12'	**4.2**	**0.13**	**9.5**	0.3 U	**33**		*incl lt HC solvent*	**120**	**170**
ICS-LP3-SO-D	15 - 16'	**23.3**	**0.08 J**	**11.7**	0.2 U	**35**	-----	-----	**92**	**170**
ICS-LP4-SO-A	8 - 10'	**748**	**0.74**	**22.2**	0.2 U	**196**	-----	-----	**620**	**1300**
ICS-LP4-SO-B	10 - 12'	**118**	**2.1**	**20.9**	**0.4**	**116**	-----	-----	**760**	**440**
ICS-LP4-SO-C	14 - 15'	**1.6**	0.03 U	**7.7**	0.2 U	**22**	-----	-----	**10**	**18**
ICS-DOF-MW1-A	4 - 5'	**11.0**	**0.04**	**10.3**	0.2 U	**55**	-----	6.3 U	**8.1**	**16**
ICS-DOF-MW1-B	6.5 - 7.5'	**3.0**	**0.05**	**10.7**	0.3 U	**33**	-----	9.2 U	6.8 U	14 U
ICS-DOF-MW1-C	11 - 12'	**2.0**	**0.03**	**11.8**	0.3 U	**31**	-----	9.3 U	7.1 U	14 U
ICS-DOF-MW2-A	2 - 3'	**1.8**	0.02 U	**9.0**	0.2 U	**25**	-----	5.7 U	5.0 U	10 U
ICS-DOF-MW2-B	8 - 9'	**2.9**	**0.23**	**9.8**	0.2 U	**28**	-----	6.8 U	5.2 U	10 U
ICS-DOF-MW2-C	12 - 13'	**4.7**	**0.04**	**16.3**	0.3 U	**37**	-----	8.8 U	6.7 U	13 U
ICS-DOF-MW3-A	2 - 4'	**3.4**	0.03 U	**9.1**	0.2 U	**26**	-----	5.7 U	5.3 U	11 U
ICS-DOF-DUP1	dup of MW3-A	**4.1**	0.02 U	**9.0**	0.2 U	**27**	-----	6.3 U	**6.2**	11 U
ICS-DOF-MW3-B	7 - 8'	**2.8**	0.02 U	**11.7**	0.2 U	**29**	-----	7.0 U	**22**	**17**
ICS-DOF-MW4-A	3 - 4'	**2.1**	0.02 U	**9.5**	0.2 U	**27**	-----	6.7 U	**8.4**	11 U
ICS-DOF-MW4-B	7 - 8'	**3.9**	0.03 U	**11.0**	0.2 U	**29**	-----	8.2 U	**15**	**18**
ICS-DOF-MW4-C	10 - 11'	**6.3**	**0.04**	**10.7**	0.2 U	**34**	-----	8.1 U	**17**	**27**
ICS-DOF-MW5-A	3 - 4'	**2.3**	0.02 U	**10.1**	0.2 U	**28**	-----	6.4 U	**23**	**22**
ICS-DOF-MW5-B	7 - 8'	**1.9**	0.02 U	**9.0**	0.2 U	**26**	-----	7.7 U	**22**	**25**
ICS-DOF-MW6-A	3 - 5'	**2.6**	**0.04**	**9.6**	0.2 U	**25**	-----	**3000**	**19,000**	1200 U
ICS-DOF-MW6-B	6 - 8'	**2.3**	0.02 U	**8.8**	0.3 U	**25**	-----	**2300**	**12,000**	1200 U
ICS-DOF-DUP2	dup of MW6-B	**2.5**	**0.02**	**9.5**	0.3 U	**25**	-----	**2500**	**9000**	1300 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons		
								Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	MO-range mg/kg, dry
Screening Level (a)		1000	2	70,000	17,500	1,050,000	-----	100	2000 (DRO+RRO)	
ICS-DOF-MW6-C	9 - 10'	**4.2**	0.04 U	**14.6**	0.3 U	**36**	-----	10 U	**34**	40
ICS-DOF-MW7-A	3 - 4'	**8.4**	**0.03**	**10.3**	0.3 U	**34**	-----	**54**	**970**	**820**
ICS-DOF-MW7-B	7 - 8'	**3.0**	**0.03**	**10.1**	0.3 U	**31**	-----	8.9 U	6.6 U	13 U
ICS-DOF-MW7-C	11 - 12'	**2.4**	0.03 U	**10.5**	0.3 U	**32**	-----	7.8 U	6.5 U	13 U
ICS-DOF-MW8-A	3 - 4'	**1.5**	0.02 U	**7.3**	0.2 U	**36**	-----	**8.2**	**5.2**	10 U
ICS-DOF-MW8-B	7 - 8'	**3.0**	**0.03**	**10.5**	0.3 U	**32**	-----	8.6 U	6.5 U	13 U
ICS-DOF-MW8-C	11 - 12'	**2.4**	0.03 U	**10.5**	0.3 U	**28**	-----	7.8 U	6.5 U	13 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	**270**	**> 2000**	**> 5000**	**> 10,000**
ICS-P11-SO-4	3 - 4.5'	**4.9**	**0.05**	**9.9**	0.2 U	**30**	-----	9.0 U	5.2 U	10 U
ICS-P11-SO-10	9.5 - 11'	**4.2**	0.04 U	**12.3**	0.3 U	**33**	-----	13 U	8.2 U	**17**
ICS-P11-SO-16	15 - 17'	**1.3**	0.02 U	**6.1**	0.2 U	**24**	-----	7.4 U	6.0 U	12 U
ICS-P12-SO-4	3 - 4.5'	**1.7**	0.03 U	**8.2**	0.2 U	**26**	-----	**23**	**6.9**	11 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	**3.1**	**0.04**	**12.1**	0.3 U	**34**	-----	9.0 U	7.0 U	14 U
ICS-P12-SO-13	12 - 14'	**2.8**	**0.03**	**10.4**	0.3 U	**30**	-----	11 U	6.8 U	14 U
ICS-P12-SO-16	15 - 17'	**2.1**	0.03 U	**10.5**	0.3 U	**29**	-----	9.9 U	6.5 U	13 U
ICS-P13-SO-4	4 - 6'	**147**	**0.17**	**12.3**	0.2 U	**200**	-----	80 U	**1600**	**760 F**
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	**1.8**	0.03 U	**6.7**	0.2 U	**23**	-----	8.2 U	6.4 U	13 U
ICS-P13-SO-17	16.5 - 18'	**1.7**	0.03 U	**8.9**	0.2 U	**27**	-----	7.4 U	6.2 U	12 U
ICS-P14-SO-4	3 - 5'	**48.6**	**0.07**	**11.8**	0.2 U	**96**	-----	**10**	**15**	**20**
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	**3.4**	0.05	**10.7**	0.3 U	**39**	-----	96 U	6.7 U	13 U
ICS-P14-SO-16	15 - 17'	**1.6**	0.03 U	**8**	0.2 U	**25**	-----	8.4 U	6.1 U	12 U
ICS-P15-SO-4	3 - 5'	**45.7**	**0.07**	**10.1**	0.2 U	68	-----	7.5 U	**260**	**160**
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	**9**	**0.05**	**23.4**	0.3 U	**67**	-----	11 U	**25**	**78**
ICS-P15-SO-16	15 - 17'	**1.2**	0.03 U	**7.8**	0.2 U	**24**	-----	9.8 U	6.2 U	12 U
ICS-P16-SO-4	3 - 4'	**2.1**	0.02 U	**7.7**	0.2 U	**65**	-----	10 U	5.4 U	11 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	**2.2**	**0.03**	**9.7**	0.3 U	**26**	-----	13 U	7.0 U	14 U
ICS-P16-SO-16	15 - 17'	**1.9**	0.03 U	**8.4**	0.3 U	**22**	-----	10 U	6.8 U	14 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons		
								Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	MO-range mg/kg, dry
Screening Level (a)		1000	2	70,000	17,500	1,050,000	-----	100	2000 (DRO+RRO)	
ICS-P17-SO-4	4.5 - 6.5'	**8**	**0.06**	**6.6**	0.3 U	**26**	-----	**150**	**950**	**290 F**
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	**3.6**	**0.03**	**10.9**	0.3 U	**33**	-----	13 U	7.7 U	**16**
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	**1.5**	0.02 U	**9.6**	0.2 U	**29**	-----	8.1 U	6.1 U	12 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	**38.1**	**0.2**	**15.3**	0.2 U	**1230**	-----	**46**	**840**	**740 F**
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	**68.5**	**0.22**	**23.2**	0.2 U	**205**	-----	**150**	**210 F**	**410 F**
ICS-P18-SO-13	12 - 14'	**56.1**	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	**950**	**4.8**	**17**	**0.3**	**680**	-----	**190**	**2900 F**	**5500 F**
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	6.3 U	13 U
ICS-P18-SO-32	31 - 33'	**1.2**	0.03 U	**7.3**	0.2 U	**21**	-----	8.8 U	6.1 U	12 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	**60.5**	**0.1**	**23**	0.2 U	**73**	-----	**12**	**300 F**	**1100 F**
ICS-P19-SO-10	9 - 10'	**2.9**	0.03 U	**13.8**	0.3 U	**32**	-----	12 U	**29 F**	**50 F**
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	**6.2**	**0.04**	**9.2**	0.3 U	**30**	-----	8.5 U	**7.6**	**19**
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	**2.6**	**0.03**	**8.5**	0.2 U	**39**	-----	7.7 U	**11**	**11**
ICS-P20-SO-10	9.5 - 11'	**2.3**	**0.03**	**9.7**	0.3 U	**30**	-----	9.2 U	6.8 U	14 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	**2.1**	0.02 U	**9.8**	0.2 U	**30**	-----	9.0 U	6.6 U	13 U
ICS-P21-SO-7	6 - 8'	**127**	**0.23**	**21.3**	0.2 U	**82**	-----	**94**	**270 F**	**500 F**
ICS-P21-SO-13	12 - 14'	**23.6**	**2.9**	**15**	0.3 U	**79**	-----	**28**	**290 F**	**690 F**
ICS-P21-SO-16	15 - 17'	**2.3**	**0.04**	**9**	0.3 U	**25**	-----	8.9 U	6.7 U	13 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	**1.3**	0.03 U	**7.3**	0.2 U	**21**	-----	8.7 U	6.1 U	12 U
ICS-P22-SO-4	3 - 4.5'	**42.1**	**0.06**	**12**	0.2 U	**60**	-----	**10**	**15**	**41**
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	**2.8**	**0.03**	**10.7**	0.3 U	**30**	-----	9.0 U	**8.7**	**19**
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons		
								Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	MO-range mg/kg, dry
Screening Level (a)		1000	2	70,000	17,500	1,050,000	-----	100	2000 (DRO+RRO)	
ICS-P22-SO-16	15 - 17'	**2.7**	0.03 U	**10.8**	0.3 U	**31**	-----	10 U	6.7 U	13 U
ICS-P23-SO-3	2 - 4'	**76.4**	**0.03**	**13**	0.2 U	**137**	-----	9.3 U	**5**	**22**
ICS-P23-SO-10	9.5 - 11	**2.6**	0.03 U	**16.2**	0.3 U	**32**	-----	10 U	6.8 U	14 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	6.1 U	12 U
ICS-P23-SO-16	15 - 17'	**1.9**	0.03 U	**9.8**	0.3 U	**27**	-----	8.7 U	6.9 U	14 U
ICS-P24-SO-4	3 - 5'	**21.3**	**0.05**	**13.3**	0.2 U	**89**	-----	6.9 U	**12**	**20**
ICS-P24-SO-10	9 - 10.5'	**34**	**2.1**	**11.6**	0.3 U	**82**	-----	7.6 U	**810 F**	**2000 F**
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	**1.2**	0.03 U	**8.1**	0.2 U	**23**	-----	8.6 U	6.2 U	12 U
ICS-P25-SO-3	1 - 3'	**42.2**	**0.38**	**13.7**	0.2 U	**140**	-----	8.6 U	**27**	**53 F**
ICS-P25-SO-10	9 - 11'	**5.8**	**0.05**	**8.8**	0.3 U	**46**	-----	8.5 U	**14**	**37**
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	**1.5**	0.03 U	**7.6**	0.2 U	**24**	-----	8.1 U	**12**	13 U
ICS-P26-SO-4	3 - 5'	**75.5**	**0.06**	**33.5**	0.2 U	**100**	-----	9.9 U	**28**	**86**
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	**2.8**	0.03 U	**11.7**	0.3 U	**33**	-----	8.8 U	6.9 U	14 U
ICS-P26-SO-16	15 - 17'	**2.8**	0.03 U	**12.4**	0.3 U	**37**	-----	11 U	6.8 U	14 U
ICS-P27-SO-3	1 - 3'	**388**	**0.24**	**24.4**	**0.9**	**910**	-----	8.7 U	**9**	**34**
ICS-P27-SO-7	6 - 8'	**4**	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	**52.0**	**0.06**	**13.9**	0.3 U	**690**	-----	12 U	7.2 U	14 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	**1.4**	0.03 U	**8.3**	0.2 U	**24**	-----	6.7 U	6.2 U	12 U
ICS-P27-SO-32	31 - 33'	**1.9**	0.03 U	**9.5**	0.3 U	**27**	-----	7.7 U	**8.8**	13 U
ICS-P28-SO-4	3 - 5'	**2.2**	0.03 U	**9.2**	0.3 U	**26**	-----	**9.2**	**13**	13 U
ICS-P28-SO-10	8.5 - 10'	**3.4**	0.04 U	**11.9**	0.3 U	**29**	-----	19 U	9.4 U	**25**
ICS-P28-SO-16	15 - 17'	**1.2**	0.02 U	**6.8**	0.2 U	**24**	-----	9.2 U	6.0 U	12 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	**0.8**	0.02 U	**4.9**	0.2 U	**15**	-----	8.7 U	6.0 U	12 U
ICS-P29-SO-4	3 - 4'	**4590**	**5.3**	**156**	**0.3**	**1390**	-----	**340**	**17000 F**	**48000 F**
ICS-P29-SO-7	6 - 8'	**13.3**	-----	-----	-----	-----	-----	-----	**8400**	**20000**
ICS-P29-SO-10	9 - 10'	**8.2**	0.03 U	**6.9**	**0.3**	**38**	-----	**32**	**110 F**	**220 F**
ICS-P29-SO-16	15 - 17'	**2.1**	**0.03**	**8.5**	0.3 U	**23**	-----	**44**	**32 F**	**34 F**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons		
								Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	MO-range mg/kg, dry
Screening Level (a)		1000	2	70,000	17,500	1,050,000	-----	100	2000 (DRO+RRO)	
ICS-DUP2	P29-SO-16	**2**	**0.04**	**8.8**	0.2 U	**23**	-----	**52**	**30 F**	**34 F**
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	**2.1**	**0.03**	**9.5**	0.3 U	**26**	-----	9.6 U	6.4 U	13 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	**71.1**	**0.26**	**34.8**	0.2 U	**96**	-----	**100**	**800**	**2500**
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	**100**	**260**
ICS-P30-SO-13	12.5 - 13.5'	**41.9**	**0.08**	**25**	**0.3**	**157**	-----	**40**	**230**	**810**
ICS-P30-SO-16	15 - 16.5'	**17.5**	**0.12**	**16.7**	0.3 U	**53**	-----	16 U	**16**	**31**
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	**1.3**	0.02 U	**8.2**	0.2 U	**24**	-----	7.3 U	6.0 U	12 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	**6.6**	**0.06**	**10.8**	0.2 U	**117**	-----	8.5 U	6.5 U	13 U
ICS-P31-SO-10	9 - 11'	**1.9**	0.03 U	**7.5**	0.3 U	**25**	-----	8.5 U	6.8 U	14 U
ICS-P31-SO-16	15 - 17'	**1.6**	0.03 U	**8.9**	0.3 U	**24**	-----	10 U	6.8 U	14 U
ICS-P31-SO-32	31 - 33'	**1.1**	0.03 U	**7.8**	0.2 U	**22**	-----	9.1 U	6.2 U	12 U
ICS-P32-SO-16	16 - 17.5'	**1.2**	0.02 U	**8**	0.2 U	**24**	-----	8.8 U	6.2 U	12 U
ICS-SO-DUPL3	P32-SO-16	**1.1**	0.03 U	**7**	0.2 U	**23**	-----	9.1 U	6.0 U	12 U
ICS-P32-SO-32	31 - 33'	**0.9**	0.03 U	**7.2**	0.2 U	**22**	-----	10 U	5.8 U	12 U
ICS-P33-SO-16	15 - 17'	**2.5**	0.03 U	**10.8**	0.3 U	**29**	-----	8.6 U	6.7 U	14 U
ICS-P33-SO-32	31 - 33'	**1.1**	0.03 U	**6.8**	0.2 U	**20**	-----	7.4 U	6.2 U	12 U
ICS-P34-SO-4	3 - 5'	**123**	**0.13**	**52.2**	0.2 U	**80**	-----	8.0 U	**16**	**67**
ICS-P34-SO-10	9 - 11'	**2.8**	**0.05**	**14.2**	0.3 U	**36**	-----	12 U	6.8 U	14 U
ICS-P34-SO-16	15 - 17'	**2.0**	0.03 U	**8.0**	0.3 U	**24**	-----	11 U	6.6 U	19
ICS-P35-SO-4	3 - 5'	**1.5**	0.03 U	**8.4**	0.2 U	**31**	-----	8.0 U	5.3 U	11 U
ICS-P35-SO-10	9 - 11'	**2.5**	0.03 U	**9.7**	0.3 U	**32**	-----	11 U	7.0 U	14 U
ICS-P35-SO-16	15 - 17'	**2.2**	0.03 U	**8.5**	0.3 U	**23**	-----	9.8 U	6.9 U	14 U
ICS-P36-SO-4	3 - 4'	**7.0**	**0.06**	**15.7**	0.3 U	**67**	-----	13 U	6.0 U	12 U
ICS-P36-SO-10	10 - 12'	**2.9**	**0.03**	**10.3**	0.3 U	**29**	-----	12 U	7.0 U	14 U
ICS-P36-SO-16	15 - 17'	**3.3**	**0.04**	**15.1**	0.3 U	**35**	-----	11 U	6.7 U	13 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Lead mg/kg, dry	Mercury mg/kg, dry	Nickel mg/kg, dry	Silver mg/kg, dry	Zinc mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons		
								Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	MO-range mg/kg, dry
Screening Level (a)		1000	2	70,000	17,500	1,050,000	-----	100	2000 (DRO+RRO)	
ICS-Ap-10-SO	9 - 10'	**2.5**	0.03 U	**8.6**	0.3 U	**21**	-----	12 U	7.0 U	14 U
ICS-Bp-10-SO	9 - 10'	**2.2**	0.02 U	**11.2**	0.2 U	**24**	-----	5.9 U	6.3 U	13 U
ICS-Cp-10-SO	9 - 10'	**4.1**	**0.03**	**9.5**	0.3 U	**25**	-----	12 U	11	**25**
ICS-Du-10-SO	9 - 10'	**3.0**	**0.03**	**8.6**	0.3 U	**22**	-----	**10**	16	**32**
ICS-Du-16-SO	15 - 17'	**1.1**	0.02 U	**5.7**	0.2 U	**19**	-----	**4.6 J**	6.1 U	12 U
ICS-FL-4-SO	3 - 5'	**1.3**	0.02 U	**7.0**	0.2 U	**20**	-----	**4.2 J**	5.3 U	10 U
ICS-FL-7-SO	6 - 8'	**2.1**	0.03 U	**10.8**	0.2 U	**25**	-----	**6.4 J**	6.2 U	12 U
ICS-FL-10-SO	9 - 10'	**1.8**	0.03 U	**9.1**	0.2 U	**25**	-----	6.3 U	6.0 U	12 U
ICS-FL-13-SO	12 - 14'	**1.9**	0.03 U	**12.4**	0.2 U	**25**	-----	8.5 U	6.5 U	13 U
ICS-FL-16-SO	15.5 - 17'	**1.3**	0.03 U	**8.0**	0.2 U	**23**	-----	7.8 U	6.1 U	12 U
ICS-FL-21-SO	20 - 22'	**1.5**	0.03 U	**10.7**	0.3 U	**23**	-----	9.1 U	6.4 U	13 U
ICS-Ju-4-SO	3 - 4'	**48.6**	**0.10**	**22.2**	0.2 U	**66**	-----	**28**	**14,000**	**32,000**
ICS-Ju-10-SO	10- 11'	**401**	**0.07**	**16.4**	**0.4**	**193**	-----	**92**	**79**	**150**
ICS-Ju-15-SO	15 - 16	**2.3**	0.03 U	**14.7**	0.3 U	**29**	-----	8.9 U	6.7 U	13 U
Number of Samples		140	137	137	137	137	1	116	140	140
Number of Detections		140	70	137	9	137	1	28	66	60
Percent Detected		100.0%	51.1%	100.0%	6.6%	100.0%	100.0%	24.1%	47.1%	42.9%
Highest Conc.		4590	8.7	156	0.9	2120	270	3000	19000	48000

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
F - profile resembles mineral oil or dielectric fluid
(a) - Based on industrial land use
MO - Motor Oil Range Hydrocarbons (RRO)

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Chloro-methane µg/kg, dry	Bromo-methane µg/kg, dry	Vinyl chloride µg/kg, dry	Chloro-ethane µg/kg, dry	Methylene chloride µg/kg, dry	Acetone µg/kg, dry	Carbon disulfide µg/kg, dry	1,1-Dichloro-ethene µg/kg, dry	1,1-Dichloro-ethane µg/kg, dry
Screening Level (a)		-----	4900	87.5	-----	21,000	3,150,000	350,000	175,000	23,000
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP1-SO-B	6.5 - 8'	1.7 U	1.7 U	1.7 U	1.7 U	**3.8**	**680**	**20**	1.7 U	**3.1**
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-B	5.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	2.3 U	**99**	1.2 U	1.2 U	1.2 U
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-B	6 - 8'	2500 U	2500 U	2500 U	2500 U	5100 U	**9900 J**	2500 U	2500 U	2500 U
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-B	10 - 12'	110 U	110 U	110 U	110 U	**86 J**	**430 J**	**130**	110 U	110 U
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DOF-MW1-A	4 - 5'	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.9 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B	6.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	**160**	**1.9**	1.2 U	1.2 U
ICS-DOF-MW1-C	11 - 12'	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U	**65**	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A	2 - 3'	0.9 U	0.9 U	0.9 U	0.9 U	1.9 U	4.7 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B	8 - 9'	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	**48 JQ**	**5.4**	1.1 U	1.1 U
ICS-DOF-MW2-C	12 - 13'	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	**100 JQ**	**1.0 J**	1.3 U	1.3 U
ICS-DOF-MW3-A	2 - 4'	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	5.3 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1	dup of MW3-A	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	5.3 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	5.6 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW4-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	**21 JQ**	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B	7 - 8'	1.3 U	1.3 U	1.3 U	1.3 U	**3.1**	**150**	**3 JQ**	1.3 U	1.3 U
ICS-DOF-MW4-C	10 - 11'	1.1 U	1.1 U	1.1 U	1.1 U	**1.6 JB**	**42**	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-A	3 - 4'	0.9 U	0.9 U	0.9 U	0.9 U	1.9 U	4.7 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	**1.1 J**	**59 JQ**	1.1 U	1.1 U	1.1 U
ICS-DOF-MW6-A	3 - 5'	280 U	280 U	280 U	280 U	550 U	1400 U	280 U	280 U	280 U
ICS-DOF-MW6-B	6 - 8'	270 U	270 U	270 U	270 U	550 U	1400 U	270 U	270 U	270 U
ICS-DOF-DUP2	dup of MW6-B	270 U	270 U	270 U	270 U	540 U	1400 U	270 U	270 U	270 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Chloro-methane µg/kg, dry	Bromo-methane µg/kg, dry	Vinyl chloride µg/kg, dry	Chloro-ethane µg/kg, dry	Methylene chloride µg/kg, dry	Acetone µg/kg, dry	Carbon disulfide µg/kg, dry	1,1-Dichloro-ethene µg/kg, dry	1,1-Dichloro-ethane µg/kg, dry
Screening Level (a)		-----	4900	87.5	-----	21,000	3,150,000	350,000	175,000	23,000
ICS-DOF-MW6-C	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	**3.3**	**220 JQ**	**4.9**	1.6 U	1.6 U
ICS-DOF-MW7-A	3 - 4'	91 U	91 U	91 U	91 U	180 U	460 U	91 U	91 U	91 U
ICS-DOF-MW7-B	7 - 8'	1.2 U	1.2 U	1.2 U	**6.0**	**1.0 J**	**74 JQ**	1.2 U	1.2 U	**2.0**
ICS-DOF-MW7-C	11 - 12'	1.3 U	1.3 U	1.3 U	**1.4**	2.6 U	**58 JQ**	**1.7**	1.3 U	1.3 U
ICS-DOF-MW8-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	**0.7 J**	**400 JQ**	1.0 U	1.0 U	1.0 U
ICS-DOF-MW8-B	7 - 8'	1.3 U	1.3 U	1.3 U	**1.9**	**3.1**	**110 JQ**	**4.1**	1.3 U	1.3 U
ICS-DOF-MW8-C	11 - 12'	1.2 U	1.2 U	1.2 U	**1.4**	2.3 U	**66 JQ**	1.2 U	1.2 U	1.2 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	1.6 U	**8.4 JB**	**55**	**2.7**	1.6 U	1.6 U
ICS-P11-SO-10	9.5 - 11'	1.9 U	1.9 U	1.9 U	1.9 U	**6.8 JB**	**71**	**2.5**	1.9 U	1.9 U
ICS-P11-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	**2.9 JB**	**23**	**1.0 J**	1.2 U	1.2 U
ICS-P12-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	**46**	**2.7**	1.6 U	1.6 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**28**	**1.0 J**	1.8 U	1.8 U
ICS-P12-SO-13	12 - 14'	1.8 U	1.8 U	1.8 U	1.8 U	**6.7 JB**	**42**	**1.3 J**	1.8 U	1.8 U
ICS-P12-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	**3.3 JB**	7.9 U	**1.1 J**	1.6 U	1.6 U
ICS-P13-SO-4	4 - 6'	1.4 U	1.4 U	1.4 U	1.4 U	**4.4**	**63**	1.4 U	1.4 U	1.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	1.5 U	1.5 U	1.5 U	1.5 U	**6.8**	**70**	1.5 U	1.5 U	1.5 U
ICS-P13-SO-17	16.5 - 18'	1.5 U	1.5 U	1.5 U	1.5 U	**6.4**	**40**	**5.7**	1.5 U	1.5 U
ICS-P14-SO-4	3 - 5'	1.4 U	1.4 U	1.4 U	1.4 U	**6.2 JB**	**44**	**7.6**	1.4 U	1.4 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	1.4 U	1.4 U	**0.7 J**	1.4 U	**4.2 JB**	28	5.8	1.4 U	1.4 U
ICS-P14-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	**6.1 JB**	**16**	**2.1**	1.4 U	1.4 U
ICS-P15-SO-4	3 - 5'	1.5 U	1.5 U	**32**	1.5 U	**7.4 JB**	19	2	1.5 U	**180**
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	1.8 U	1.8 U	1.8 U	1.8 U	**6.4 JB**	**150**	**4.3**	1.8 U	**2.7**
ICS-P15-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	**5.5 JB**	24	4.3	1.6 U	1.6 U
ICS-P16-SO-4	3 - 4'	0.8 U	0.8 U	0.8 U	0.8 U	**2**	**14**	0.8 U	0.8 U	0.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	2.0 U	2.0 U	2.0 U	2.0 U	**6.2**	**79**	2.0 U	2.0 U	2.0 U
ICS-P16-SO-16	15 - 17'	2.3 U	2.3 U	2.3 U	2.3 U	**9.6**	**43**	**2.5 JQ**	2.3 U	2.3 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Chloro-methane µg/kg, dry	Bromo-methane µg/kg, dry	Vinyl chloride µg/kg, dry	Chloro-ethane µg/kg, dry	Methylene chloride µg/kg, dry	Acetone µg/kg, dry	Carbon disulfide µg/kg, dry	1,1-Dichloro-ethene µg/kg, dry	1,1-Dichloro-ethane µg/kg, dry
Screening Level (a)		-----	4900	87.5	-----	21,000	3,150,000	350,000	175,000	23,000
ICS-P17-SO-4	4.5 - 6.5'	1.4 U	**98 JR**	1.4 U	1.4 U	**5.6**	**68**	**4.9**	1.4 U	**2.7**
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	2.0 U	**1 J**	2.0 U	2.0 U	**4.4**	**89**	**3**	2.0 U	**3.4**
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	**5.3**	**130**	**7.5**	1.4 U	1.4 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	2.5 U	2.5 U	2.5 U	2.5 U	**8.7**	**88 JQ**	**3**	2.5 U	2.5 U
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	
ICS-P18-SO-10	9 - 10'	1.5 U	1.5 U	1.5 U	1.5 U	**5.8**	**82 JQ**	**5.7**	1.5 U	1.5 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	
ICS-P18-SO-16	14 - 16'	1.4 U	1.4 U	1.4 U	1.4 U	**3.3 JB**	7.1 U	**3.1**	1.4 U	1.4 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	
ICS-P18-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	**5.9**	7.1 U	**3.8**	1.4 U	1.4 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	1.8 U	1.8 U	1.8 U	1.8 U	**5.4**	**70 JQ**	**2.1**	1.8 U	**0.9 J**
ICS-P19-SO-10	9 - 10'	1.9 U	1.9 U	1.9 U	1.9 U	**7.2**	**43 JQ**	**5.5**	1.9 U	1.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	**4**	**49 JQ**	**1.5 J**	1.6 U	**0.9 J**
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	**6**	**7.8**	1.5 U	1.5 U	1.5 U
ICS-P20-SO-10	9.5 - 11'	1.3 U	1.3 U	1.3 U	1.3 U	**3.5**	**14**	1.3 U	1.3 U	1.3 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	**5.9 J**	**2**	1.5 U	1.5 U
ICS-P21-SO-7	6 - 8'	1.7 U	1.7 U	1.7 U	1.7 U	**4.6 JB**	8.6 U	**3.4**	1.7 U	1.7 U
ICS-P21-SO-13	12 - 14'	2.2 U	2.2 U	2.2 U	2.2 U	**5.2 JB**	**110**	**12**	2.2 U	2.2 U
ICS-P21-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	**3.0 JB**	**65**	**3.6**	1.4 U	1.4 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	**39**	**2.2 JQ**	1.2 U	1.2 U
ICS-P22-SO-4	3 - 4.5'	2.4 U	2.4 U	2.4 U	2.4 U	**9.9 JB**	**140**	**6**	2.4 U	2.4 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	1.3 U	1.3 U	1.3 U	1.3 U	**4.6 JB**	6.5 U	1.3 U	1.3 U	1.3 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Chloro-methane µg/kg, dry	Bromo-methane µg/kg, dry	Vinyl chloride µg/kg, dry	Chloro-ethane µg/kg, dry	Methylene chloride µg/kg, dry	Acetone µg/kg, dry	Carbon disulfide µg/kg, dry	1,1-Dichloro-ethene µg/kg, dry	1,1-Dichloro-ethane µg/kg, dry
Screening Level (a)		-----	4900	87.5	-----	21,000	3,150,000	350,000	175,000	23,000
ICS-P22-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	**5.0 JB**	**32**	**0.9 J**	1.5 U	1.5 U
ICS-P23-SO-3	2 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	**5**	**26**	1.4 U	1.4 U	1.4 U
ICS-P23-SO-10	9.5 - 11	0.7 U	0.7 U	0.7 U	0.7 U	**1.9**	**10**	**1.1**	0.7 U	0.7 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	**5.3**	6.6 U	**4**	1.3 U	1.3 U
ICS-P24-SO-4	3 - 5'	1.6 U	1.6 U	1.6 U	1.6 U	**6.8**	**18**	1.6 U	1.6 U	1.6 U
ICS-P24-SO-10	9 - 10.5'	1.5 U	1.5 U	1.5 U	1.5 U	**4.2**	**10**	**4.7**	1.5 U	1.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	**3.2**	**12**	**1.2**	1.2 U	1.2 U
ICS-P25-SO-3	1 - 3'	1.5 U	1.5 U	1.5 U	1.5 U	2.9 U	**26**	1.5 U	1.5 U	1.5 U
ICS-P25-SO-10	9 - 11'	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	1.4 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	**3.7**	**13**	**1.6**	1.5 U	1.5 U
ICS-P26-SO-4	3 - 5'	1.3 U	1.3 U	1.3 U	1.3 U	**3.1**	**21**	1.3 U	1.3 U	1.3 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	**3.3 U**	**19**	**1.9**	1.6 U	1.6 U
ICS-P26-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	**3**	**14**	1.4 U	1.4 U	1.4 U
ICS-P27-SO-3	1 - 3'	**47**	**77**	1.5 U	1.5 U	**3.1**	**110**	1.5 U	1.5 U	1.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	**3.9**	**23**	**4.6**	1.6 U	1.6 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	**2.5**	**7.9**	**1.5**	1.2 U	1.2 U
ICS-P27-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	6.2 U	**2.3**	1.2 U	1.2 U
ICS-P28-SO-4	3 - 5'	1.9 U	1.9 U	1.9 U	1.9 U	**4.3 JB**	**19**	1.9 U	1.9 U	1.9 U
ICS-P28-SO-10	8.5 - 10'	2.6 U	2.6 U	2.6 U	2.6 U	**5.8**	**59**	**5.6**	2.6 U	**3.5**
ICS-P28-SO-16	15 - 17'	1.1 U	1.1 U	1.1 U	1.1 U	**2.5 JB**	**160**	**3.6**	1.1 U	**0.6 J**
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	**5**	**61**	**4.8**	1.6 U	1.6 U
ICS-P29-SO-4	3 - 4'	0.9 U	0.9 U	0.9 U	0.9 U	**2.7**	**49**	**1.6 JQ**	0.9 U	0.9 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	**5.1**	**700**	**6.3 JQ**	1.6 U	**45**
ICS-P29-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	**6.1**	**80**	**5.7 JQ**	1.6 U	1.6 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Chloro-methane µg/kg, dry	Bromo-methane µg/kg, dry	Vinyl chloride µg/kg, dry	Chloro-ethane µg/kg, dry	Methylene chloride µg/kg, dry	Acetone µg/kg, dry	Carbon disulfide µg/kg, dry	1,1-Dichloro-ethene µg/kg, dry	1,1-Dichloro-ethane µg/kg, dry
Screening Level (a)		-----	4900	87.5	-----	21,000	3,150,000	350,000	175,000	23,000
ICS-DUP2	P29-SO-16	2.1 U	2.1 U	2.1 U	2.1 U	**8**	**120**	**6.5 JQ**	2.1 U	**1.4 J**
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	**4.1**	**25**	**2.3 JQ**	1.6 U	1.6 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	
ICS-P30-SO-7	6 - 7'	1.0 U	1.0 U	1.0 U	1.0 U	**3.4**	**120**	**5.7**	1.0 U	1.0 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	**1.5**	1.0 U	1.0 U
ICS-P30-SO-16	15 - 16.5'	2.8 U	2.8 U	2.8 U	2.8 U	**6.7**	**95**	**11**	2.8 U	2.8 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	**6.8**	**17**	**4.3**	1.4 U	1.4 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	**2.9 JB**	**64**	**1.7 JQ**	1.4 U	1.4 U
ICS-P31-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	**8.1**	**24**	1.6 U	1.6 U	1.6 U
ICS-P31-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	**28**	**2.5 JQ**	1.7 U	1.7 U
ICS-P31-SO-32	31 - 33'	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	6.7 U	**3.3 JQ**	1.3 U	1.3 U
ICS-P32-SO-16	16 - 17.5'	1.6 U	1.6 U	1.6 U	1.6 U	**3.5 JB**	**29**	**4.1**	1.6 U	1.6 U
ICS-SO-DUPL3	P32-SO-16	3.0 U	3.0 U	3.0 U	3.0 U	**9.6**	**77 JQ**	**6.6**	3.0 U	3.0 U
ICS-P32-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	**4.6**	**48**	**8.6**	1.6 U	1.6 U
ICS-P33-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	7.1 U	**1.9 JQ**	1.4 U	1.4 U
ICS-P33-SO-32	31 - 33'	1.3 U	1.3 U	1.3 U	1.3 U	**2.7 JB**	**22**	**6.0 JQ**	1.3 U	1.3 U
ICS-P34-SO-4	3 - 5'	1.8 U	1.8 U	1.8 U	1.8 U	3.7 U	**33.0 JQ**	1.8 U	1.8 U	1.8 U
ICS-P34-SO-10	9 - 11'	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	**52.0 JQ**	2.1 U	2.1 U	2.1 U
ICS-P34-SO-16	15 - 17'	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**29.0 JQ**	**3.2**	1.8 U	1.8 U
ICS-P35-SO-4	3 - 5'	1.7 U	1.7 U	1.7 U	1.7 U	**3.6**	**14.0 JQ**	1.7 U	1.7 U	1.7 U
ICS-P35-SO-10	9 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**25.0 JQ**	1.8 U	1.8 U	1.8 U
ICS-P35-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	**2.5 J**	**31.0 JQ**	1.5 U	1.5 U	1.5 U
ICS-P36-SO-4	3 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	**17.0 JQ**	**1.9**	1.5 U	1.5 U
ICS-P36-SO-10	10 - 12'	1.6 U	1.6 U	1.6 U	1.6 U	**3.7**	**43.0 JQ**	1.6 U	1.6 U	1.6 U
ICS-P36-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	**2.4 J**	**35.0 JQ**	1.7 U	1.7 U	1.7 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Chloro-methane µg/kg, dry	Bromo-methane µg/kg, dry	Vinyl chloride µg/kg, dry	Chloro-ethane µg/kg, dry	Methylene chloride µg/kg, dry	Acetone µg/kg, dry	Carbon disulfide µg/kg, dry	1,1-Dichloro-ethene µg/kg, dry	1,1-Dichloro-ethane µg/kg, dry
Screening Level (a)		-----	4900	87.5	-----	21,000	3,150,000	350,000	175,000	23,000
ICS-Ap-10-SO	9 - 10'	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	**83**	1.2 U	1.2 U	1.2 U
ICS-Bp-10-SO	9 - 10'	1.2 U	**0.5 J**	1.2 U	1.2 U	2.5 U	**94**	**2.4**	1.2 U	1.2 U
ICS-Cp-10-SO	9 - 10'	**3.2**	**2.1**	2.0 U	2.0 U	4.0 U	**57**	**7.8**	2.0 U	2.0 U
ICS-Du-10-SO	9 - 10'	1.6 U	**0.6 J**	1.6 U	1.6 U	3.1 U	**76**	1.6 U	1.6 U	1.6 U
ICS-Du-16-SO	15 - 17'	1.1 U	1.1 U	1.1 U	1.1 U	2.3 U	**42**	**13**	1.1 U	1.1 U
ICS-FL-4-SO	3 - 5'	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	**16**	1.5 U	1.5 U	1.5 U
ICS-FL-7-SO	6 - 8'	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**52**	1.8 U	1.8 U	1.8 U
ICS-FL-10-SO	9 - 10'	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	**30**	**10**	1.5 U	1.5 U
ICS-FL-13-SO	12 - 14'	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	**14**	1.5 U	1.5 U	1.5 U
ICS-FL-16-SO	15.5 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	**24**	**3.8**	1.3 U	1.3 U
ICS-FL-21-SO	20 - 22'	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	6.0 U	**2.9**	1.2 U	1.2 U
ICS-Ju-4-SO	3 - 4'	2.1 U	2.1 U	2.1 U	2.1 U	4.3 U	**220**	**11**	2.1 U	2.1 U
ICS-Ju-10-SO	10- 11'	**6.2**	2.4 U	2.4 U	2.4 U	4.7 U	**120**	**9.9**	2.4 U	2.4 U
ICS-Ju-15-SO	15 - 16	**1.0 J**	1.2 U	1.2 U	1.2 U	2.5 U	**28**	**9.1**	1.2 U	1.2 U
Number of Samples		128	128	128	128	128	128	128	128	128
Number of Detections		4	6	2	4	78	106	81	0	12
Percent Detected		3.1%	4.7%	1.6%	3.1%	60.9%	82.8%	63.3%	0.0%	9.4%
Highest Conc.		47	98	32	6	86	9900	130	0	180

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	*trans*-1,2-Dichloroethene µg/kg, dry	*cis*-1,2-Dichloroethene µg/kg, dry	Chloroform µg/kg, dry	1,2-Dichloroethane µg/kg, dry	2-Butanone µg/kg, dry	1,1,1-Trichloroethane µg/kg, dry	Carbon tetrachloride µg/kg, dry	Bromodichloromethane µg/kg, dry
Screening Level (a)		70,000	7000	4230	1440	2,100,000	7,000,000	1880	2120
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP1-SO-B	6.5 - 8'	1.7 U	1.7 U	1.7 U	1.7 U	**140**	1.7 U	1.7 U	1.7 U
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-B	5.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	**20 JQ**	1.2 U	1.2 U	1.2 U
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-B	6 - 8'	2500 U	**2400 J**	2500 U	2500 U	13,000 U	2500 U	2500 U	2500 U
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-B	10 - 12'	110 U	110 U	110 U	110 U	550 U	110 U	110 U	110 U
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DOF-MW1-A	4 - 5'	1.0 U	1.0 U	1.0 U	1.0 U	4.9 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B	6.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	**30 JQ**	1.2 U	1.2 U	1.2 U
ICS-DOF-MW1-C	11 - 12'	1.3 U	1.3 U	1.3 U	1.3 U	**14**	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A	2 - 3'	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B	8 - 9'	1.1 U	1.1 U	1.1 U	1.1 U	**8.5**	1.1 U	1.1 U	1.1 U
ICS-DOF-MW2-C	12 - 13'	1.3 U	1.3 U	1.3 U	1.3 U	**29**	1.3 U	1.3 U	1.3 U
ICS-DOF-MW3-A	2 - 4'	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1	dup of MW3-A	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	**1.4**	1.1 U	1.1 U
ICS-DOF-MW4-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	**3.3 J**	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B	7 - 8'	1.3 U	1.3 U	1.3 U	1.3 U	**23 JQ**	1.3 U	1.3 U	1.3 U
ICS-DOF-MW4-C	10 - 11'	1.1 U	1.1 U	1.1 U	1.1 U	**11**	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-A	3 - 4'	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	**10**	1.1 U	1.1 U	1.1 U
ICS-DOF-MW6-A	3 - 5'	280 U	280 U	280 U	280 U	1400 U	280 U	280 U	280 U
ICS-DOF-MW6-B	6 - 8'	270 U	270 U	270 U	270 U	1400 U	270 U	270 U	270 U
ICS-DOF-DUP2	dup of MW6-B	270 U	270 U	270 U	270 U	1400 U	270 U	270 U	270 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	*trans*-1,2-Dichloroethene µg/kg, dry	*cis*-1,2-Dichloroethene µg/kg, dry	Chloroform µg/kg, dry	1,2-Dichloro-ethane µg/kg, dry	2-Butanone µg/kg, dry	1,1,1-Tri-chloroethane µg/kg, dry	Carbon tetrachloride µg/kg, dry	Bromo-dichloromethane µg/kg, dry
Screening Level (a)		70,000	7000	4230	1440	2,100,000	7,000,000	1880	2120
ICS-DOF-MW6-C	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	**48**	1.6 U	1.6 U	1.6 U
ICS-DOF-MW7-A	3 - 4'	91 U	**130**	91 U	91 U	460 U	91 U	91 U	91 U
ICS-DOF-MW7-B	7 - 8'	**1.1 J**	1.2 U	1.2 U	1.2 U	**18**	1.2 U	1.2 U	1.2 U
ICS-DOF-MW7-C	11 - 12'	1.3 U	**4.3**	1.3 U	1.3 U	**16**	1.3 U	1.3 U	1.3 U
ICS-DOF-MW8-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	**39**	1.0 U	1.0 U	1.0 U
ICS-DOF-MW8-B	7 - 8'	1.3 U	1.3 U	1.3 U	1.3 U	**21**	1.3 U	1.3 U	1.3 U
ICS-DOF-MW8-C	11 - 12'	1.2 U	1.2 U	1.2 U	1.2 U	**19**	1.2 U	1.2 U	1.2 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	1.6 U	**6.1 J**	1.6 U	1.6 U	1.6 U
ICS-P11-SO-10	9.5 - 11'	1.9 U	1.9 U	1.9 U	1.9 U	**18**	1.9 U	1.9 U	1.9 U
ICS-P11-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	**3.8 J**	1.2 U	1.2 U	1.2 U
ICS-P12-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	1.6 U	**4.5 J**	1.6 U	1.6 U	1.6 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	8.9 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-13	12 - 14'	1.8 U	1.8 U	1.8 U	1.8 U	**7.1 J**	1.8 U	1.8 U	1.8 U
ICS-P12-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	1.6 U	1.6 U	1.6 U
ICS-P13-SO-4	4 - 6'	1.4 U	1.4 U	1.4 U	1.4 U	**8.9**	1.4 U	1.4 U	1.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	1.5 U	1.5 U	1.5 U	1.5 U	**11**	1.5 U	1.5 U	1.5 U
ICS-P13-SO-17	16.5 - 18'	1.5 U	1.5 U	1.5 U	1.5 U	**5.9 J**	1.5 U	1.5 U	1.5 U
ICS-P14-SO-4	3 - 5'	1.4 U	1.4 U	1.4 U	1.4 U	**4.5 J**	1.4 U	1.4 U	1.4 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	1.4 U	**9.9**	1.4 U	1.4 U	**5.5 J**	1.4 U	1.4 U	1.4 U
ICS-P14-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U
ICS-P15-SO-4	3 - 5'	**6.1**	**32**	1.5 U	1.4 J	7.6 U	1.5 U	1.5 U	1.5 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	**1.4 J**	**30**	1.8 U	1.8 U	**29**	1.8 U	1.8 U	1.8 U
ICS-P15-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	8.1 U	1.6 U	1.6 U	1.6 U
ICS-P16-SO-4	3 - 4'	0.8 U	0.8 U	0.8 U	0.8 U	4.1 U	0.8 U	0.8 U	0.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	2.0 U	2.0 U	2.0 U	2.0 U	**5.5 J**	2.0 U	2.0 U	2.0 U
ICS-P16-SO-16	15 - 17'	2.3 U	2.3 U	2.3 U	2.3 U	**6.6 J**	2.3 U	2.3 U	2.3 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	*trans*-1,2-Dichloroethene µg/kg, dry	*cis*-1,2-Dichloroethene µg/kg, dry	Chloroform µg/kg, dry	1,2-Dichloroethane µg/kg, dry	2-Butanone µg/kg, dry	1,1,1-Trichloroethane µg/kg, dry	Carbon tetrachloride µg/kg, dry	Bromodichloromethane µg/kg, dry
Screening Level (a)		70,000	7000	4230	1440	2,100,000	7,000,000	1880	2120
ICS-P17-SO-4	4.5 - 6.5'	1.4 U	**8.3**	1.4 U	1.4 U	7.0 U	1.4 U	1.4 U	1.4 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	**1.8 J**	2.0 U	2.0 U	2.0 U	**17**	2.0 U	2.0 U	2.0 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	**14**	1.4 U	1.4 U	1.4 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	2.5 U	**2.3 J**	2.5 U	2.5 U	**29 JQ**	2.5 U	2.5 U	2.5 U
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	**0.7 J**	1.5 U	1.5 U	1.5 U	**33 JQ**	1.5 U	1.5 U	1.5 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	1.8 U	1.8 U	1.8 U	1.8 U	**24 JQ**	1.8 U	1.8 U	1.8 U
ICS-P19-SO-10	9 - 10'	1.9 U	1.9 U	1.9 U	1.9 U	**5.2 J**	1.9 U	1.9 U	1.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	1.6 U	**1.0 J**	1.6 U	1.6 U	**4.3 J**	1.6 U	1.6 U	1.6 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	7.6 U	1.5 U	1.5 U	1.5 U
ICS-P20-SO-10	9.5 - 11'	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U	1.3 U	1.3 U	1.3 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U
ICS-P21-SO-7	6 - 8'	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.7 U	1.7 U	1.7 U
ICS-P21-SO-13	12 - 14'	**5.9**	**45**	2.2 U	2.2 U	**14**	2.2 U	2.2 U	2.2 U
ICS-P21-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	**6.0 J**	1.4 U	1.4 U	1.4 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	5.9 U	1.2 U	1.2 U	1.2 U
ICS-P22-SO-4	3 - 4.5'	2.4 U	2.4 U	2.4 U	2.4 U	**16**	2.4 U	2.4 U	2.4 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	1.3 U	1.3 U	1.3 U	1.3 U	6.5 U	1.3 U	1.3 U	1.3 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	*trans*-1,2-Dichloroethene µg/kg, dry	*cis*-1,2-Dichloroethene µg/kg, dry	Chloroform µg/kg, dry	1,2-Dichloro-ethane µg/kg, dry	2-Butanone µg/kg, dry	1,1,1-Tri-chloroethane µg/kg, dry	Carbon tetrachloride µg/kg, dry	Bromo-dichloromethane µg/kg, dry
Screening Level (a)		70,000	7000	4230	1440	2,100,000	7,000,000	1880	2120
ICS-P22-SO-16	15 - 17'	1.5 U	**1.6**	1.5 U	1.5 U	7.6 U	1.5 U	1.5 U	1.5 U
ICS-P23-SO-3	2 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	**4.9 J**	1.4 U	1.4 U	1.4 U
ICS-P23-SO-10	9.5 - 11	0.7 U	0.7 U	0.7 U	0.7 U	**2.9 J**	0.7 U	0.7 U	0.7 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U	1.3 U	1.3 U	1.3 U
ICS-P24-SO-4	3 - 5'	1.6 U	1.6 U	1.6 U	1.6 U	**9.1**	1.6 U	1.6 U	1.6 U
ICS-P24-SO-10	9 - 10.5'	1.5 U	1.5 U	1.5 U	1.5 U	**13**	1.5 U	1.5 U	1.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	5.8 U	1.2 U	1.2 U	1.2 U
ICS-P25-SO-3	1 - 3'	1.5 U	1.5 U	1.5 U	1.5 U	**6.1 J**	1.5 U	1.5 U	1.5 U
ICS-P25-SO-10	9 - 11'	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	1.4 U	1.4 U	1.4 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	1.5 U	**2**	1.5 U	1.5 U	7.5 U	1.5 U	1.5 U	1.5 U
ICS-P26-SO-4	3 - 5'	1.3 U	1.3 U	1.3 U	1.3 U	**4.7 J**	1.3 U	1.3 U	1.3 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	**4.8 J**	1.6 U	1.6 U	1.6 U
ICS-P26-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U
ICS-P27-SO-3	1 - 3'	1.5 U	1.5 U	1.5 U	1.5 U	**19**	1.5 U	1.5 U	1.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	**7.1 J**	1.6 U	1.6 U	1.6 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U
ICS-P27-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	6.2 U	1.2 U	1.2 U	1.2 U
ICS-P28-SO-4	3 - 5'	1.9 U	1.9 U	1.9 U	1.9 U	9.5 U	1.9 U	1.9 U	1.9 U
ICS-P28-SO-10	8.5 - 10'	**11**	**48**	2.6 U	2.6 U	**19**	2.6 U	2.6 U	2.6 U
ICS-P28-SO-16	15 - 17'	**2**	**0.7 J**	1.1 U	1.1 U	**20**	1.1 U	1.1 U	1.1 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	**4.5 J**	1.6 U	1.6 U	1.6 U
ICS-P29-SO-4	3 - 4'	0.9 U	0.9 U	0.9 U	0.9 U	4.6 U	0.9 U	0.9 U	0.9 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	**8.4**	**73**	1.6 U	1.6 U	**66**	1.6 U	1.6 U	1.6 U
ICS-P29-SO-16	15 - 17'	**2.7**	**11**	1.6 U	1.6 U	8.1 U	1.6 U	1.6 U	1.6 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	*trans*-1,2-Dichloroethene µg/kg, dry	*cis*-1,2-Dichloroethene µg/kg, dry	Chloroform µg/kg, dry	1,2-Dichloroethane µg/kg, dry	2-Butanone µg/kg, dry	1,1,1-Trichloroethane µg/kg, dry	Carbon tetrachloride µg/kg, dry	Bromodichloromethane µg/kg, dry
Screening Level (a)		70,000	7000	4230	1440	2,100,000	7,000,000	1880	2120
ICS-DUP2	P29-SO-16	**3.5**	**15**	2.1 U	2.1 U	10 U	2.1 U	2.1 U	2.1 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	8.0 U	1.6 U	1.6 U	1.6 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
ICS-P30-SO-16	15 - 16.5'	2.8 U	2.8 U	2.8 U	2.8 U	**10**	2.8 U	2.8 U	2.8 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	1.4 U	1.4 U	1.4 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	**5.7 J**	1.4 U	1.4 U	1.4 U
ICS-P31-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	8.2 U	1.6 U	1.6 U	1.6 U
ICS-P31-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.7 U	1.7 U	1.7 U
ICS-P31-SO-32	31 - 33'	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	1.3 U	1.3 U	1.3 U
ICS-P32-SO-16	16 - 17.5'	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	1.6 U	1.6 U	1.6 U
ICS-SO-DUPL3	P32-SO-16	3.0 U	3.0 U	3.0 U	3.0 U	**17 JQ**	3.0 U	3.0 U	3.0 U
ICS-P32-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	**10**	1.6 U	1.6 U	1.6 U
ICS-P33-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	**5.3 J**	1.4 U	1.4 U	1.4 U
ICS-P33-SO-32	31 - 33'		1.3 U	1.3 U	1.3 U	6.5 U	1.3 U	1.3 U	1.3 U
ICS-P34-SO-4	3 - 5'	1.8 U	1.8 U	1.8 U	1.8 U	9.2 U	1.8 U	1.8 U	1.8 U
ICS-P34-SO-10	9 - 11'	2.1 U	2.1 U	2.1 U	2.1 U	**6.2 J**	2.1 U	2.1 U	2.1 U
ICS-P34-SO-16	15 - 17'	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-4	3 - 5'	1.7 U	1.7 U	1.7 U	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U
ICS-P35-SO-10	9 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	8.9 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	**4.3 J**	1.5 U	1.5 U	1.5 U
ICS-P36-SO-4	3 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-10	10 - 12'	1.6 U	1.6 U	1.6 U	1.6 U	**4.2 J**	1.6 U	1.6 U	1.6 U
ICS-P36-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	1.7 U	1.7 U	1.7 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	*trans*-1,2-Dichloroethene µg/kg, dry	*cis*-1,2-Dichloroethene µg/kg, dry	Chloroform µg/kg, dry	1,2-Dichloroethane µg/kg, dry	2-Butanone µg/kg, dry	1,1,1-Trichloroethane µg/kg, dry	Carbon tetrachloride µg/kg, dry	Bromodichloromethane µg/kg, dry
Screening Level (a)		70,000	7000	4230	1440	2,100,000	7,000,000	1880	2120
ICS-Ap-10-SO	9 - 10'	1.2 U	1.2 U	1.2 U	1.2 U	**17**	1.2 U	1.2 U	1.2 U
ICS-Bp-10-SO	9 - 10'	1.2 U	1.2 U	1.2 U	1.2 U	**9.7**	1.2 U	1.2 U	1.2 U
ICS-Cp-10-SO	9 - 10'	2.0 U	2.0 U	2.0 U	2.0 U	**11**	2.0 U	2.0 U	2.0 U
ICS-Du-10-SO	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	**17**	1.6 U	1.6 U	1.6 U
ICS-Du-16-SO	15 - 17'	1.1 U	1.1 U	1.1 U	1.1 U	**6.7**	1.1 U	1.1 U	1.1 U
ICS-FL-4-SO	3 - 5'	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U
ICS-FL-7-SO	6 - 8'	1.8 U	1.8 U	1.8 U	1.8 U	9.1 U	1.8 U	1.8 U	1.8 U
ICS-FL-10-SO	9 - 10'	1.5 U	1.5 U	1.5 U	1.5 U	**4.1 J**	1.5 U	1.5 U	1.5 U
ICS-FL-13-SO	12 - 14'	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U
ICS-FL-16-SO	15.5 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	1.3 U	1.3 U	1.3 U
ICS-FL-21-SO	20 - 22'	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U
ICS-Ju-4-SO	3 - 4'	2.1 U	2.1 U	2.1 U	2.1 U	**18**	2.1 U	2.1 U	2.1 U
ICS-Ju-10-SO	10- 11'	2.4 U	2.4 U	2.4 U	2.4 U	**25**	2.4 U	2.4 U	2.4 U
ICS-Ju-15-SO	15 - 16	1.2 U	1.2 U	1.2 U	1.2 U	**3.6 J**	1.2 U	1.2 U	1.2 U
Number of Samples		128	128	128	128	128	128	128	128
Number of Detections		11	17	0	0	69	1	0	0
Percent Detected		8.6%	13.3%	0.0%	0.0%	53.9%	0.8%	0.0%	0.0%
Highest Conc.		11	2400	0	0	140	1.4	0	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,2-Dichloro-propane µg/kg, dry	*cis* -1,3-Dichloro-propene µg/kg, dry	Trichloro-ethene µg/kg, dry	Dibromo-chloromethane µg/kg, dry	1,1,2-Trichloro-ethane µg/kg, dry	Benzene µg/kg, dry	*trans* -1,3-Dichloropropene µg/kg, dry	Bromoform µg/kg, dry
Screening Level (a)		-----	-----	1750	1560	2,300	2390	-----	16,600
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP1-SO-B	6.5 - 8'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.1 J**	1.7 U	1.7 U
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-B	5.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-B	6 - 8'	2500 U	2500 U	**2000 J**	2500 U	2500 U	**1600 J**	2500 U	2500 U
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-B	10 - 12'	110 U	110 U	**200**	110 U	110 U	**78 J**	110 U	110 U
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DOF-MW1-A	4 - 5'	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B	6.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW1-C	11 - 12'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A	2 - 3'	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B	8 - 9'	1.1 U	1.1 U	**4.2**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW2-C	12 - 13'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW3-A	2 - 4'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1	dup of MW3-A	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW4-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B	7 - 8'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW4-C	10 - 11'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-A	3 - 4'	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW6-A	3 - 5'	280 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U
ICS-DOF-MW6-B	6 - 8'	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U
ICS-DOF-DUP2	dup of MW6-B	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,2-Dichloro-propane µg/kg, dry	*cis* -1,3-Dichloro-propene µg/kg, dry	Trichloro-ethene µg/kg, dry	Dibromo-chloromethane µg/kg, dry	1,1,2-Trichloro-ethane µg/kg, dry	Benzene µg/kg, dry	*trans* -1,3-Dichloropropene µg/kg, dry	Bromoform µg/kg, dry
Screening Level (a)		-----	-----	1750	1560	2,300	2390	-----	16,600
ICS-DOF-MW6-C	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.2**	1.6 U	1.6 U
ICS-DOF-MW7-A	3 - 4'	91 U	91 U	**120**	91 U	91 U	91 U	91 U	91 U
ICS-DOF-MW7-B	7 - 8'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**2.1**	1.2 U	1.2 U
ICS-DOF-MW7-C	11 - 12'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**0.8 J**	1.3 U	1.3 U
ICS-DOF-MW8-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW8-B	7 - 8'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**15**	1.3 U	1.3 U
ICS-DOF-MW8-C	11 - 12'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**29**	1.2 U	1.2 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**2.1**	1.6 U	1.6 U
ICS-P11-SO-10	9.5 - 11'	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**1.7 J**	1.9 U	1.9 U
ICS-P11-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P12-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.5**	1.6 U	1.6 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**20**	1.8 U	1.8 U
ICS-P12-SO-13	12 - 14'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.7**	1.8 U	1.8 U
ICS-P12-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P13-SO-4	4 - 6'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.9 J**	1.4 U	1.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P13-SO-17	16.5 - 18'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P14-SO-4	3 - 5'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	1.4 U	1.4 U	**1.0 J**	1.4 U	1.4 U	**2.2**	1.4 U	1.4 U
ICS-P14-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P15-SO-4	3 - 5'	**3.8**	1.5 U	**7.3**	1.5 U	1.5 U	**9.3**	1.5 U	1.5 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	1.8 U	1.8 U	**4**	1.8 U	1.8 U	**2.4**	1.8 U	1.8 U
ICS-P15-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P16-SO-4	3 - 4'	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P16-SO-16	15 - 17'	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,2-Dichloro-propane µg/kg, dry	*cis* -1,3-Dichloro-propene µg/kg, dry	Trichloro-ethene µg/kg, dry	Dibromo-chloromethane µg/kg, dry	1,1,2-Trichloro-ethane µg/kg, dry	Benzene µg/kg, dry	*trans* -1,3-Dichloropropene µg/kg, dry	Bromoform µg/kg, dry
Screening Level (a)		-----	-----	1750	1560	2,300	2390	-----	16,600
ICS-P17-SO-4	4.5 - 6.5'	1.4 U	1.4 U	**2.2**	1.4 U	1.4 U	**0.9 J**	1.4 U	1.4 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**15**	2.0 U	2.0 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.7**	1.4 U	1.4 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**3.4**	2.5 U	2.5 U
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**4.8**	1.5 U	1.5 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**6.3**	1.4 U	1.4 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**6.2**	1.8 U	1.8 U
ICS-P19-SO-10	9 - 10'	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	1.6 U	1.6 U	**1.1 J**	1.6 U	1.6 U	**0.9 J**	1.6 U	1.6 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P20-SO-10	9.5 - 11'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P21-SO-7	6 - 8'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**17**	1.7 U	1.7 U
ICS-P21-SO-13	12 - 14'	2.2 U	2.2 U	**3.7**	2.2 U	2.2 U	**50**	2.2 U	2.2 U
ICS-P21-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**6.4**	1.4 U	1.4 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P22-SO-4	3 - 4.5'	2.4 U	2.4 U	**5.9**	2.4 U	2.4 U	**9.9**	2.4 U	2.4 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	1.3 U	1.3 U	**0.9 J**	1.3 U	1.3 U	**11**	1.3 U	1.3 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,2-Dichloro-propane µg/kg, dry	*cis* -1,3-Dichloro-propene µg/kg, dry	Trichloro-ethene µg/kg, dry	Dibromo-chloromethane µg/kg, dry	1,1,2-Trichloro-ethane µg/kg, dry	Benzene µg/kg, dry	*trans* -1,3-Dichloropropene µg/kg, dry	Bromoform µg/kg, dry
Screening Level (a)		-----	-----	1750	1560	2,300	2390	-----	16,600
ICS-P22-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**15**	1.5 U	1.5 U
ICS-P23-SO-3	2 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**2**	1.4 U	1.4 U
ICS-P23-SO-10	9.5 - 11	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P24-SO-4	3 - 5'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P24-SO-10	9 - 10.5'	1.5 U	1.5 U	**2.7**	1.5 U	1.5 U	**3.9**	1.5 U	1.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P25-SO-3	1 - 3'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.8 J**	1.5 U	1.5 U
ICS-P25-SO-10	9 - 11'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**1.2 J**	1.5 U	1.5 U
ICS-P26-SO-4	3 - 5'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**1.4**	1.3 U	1.3 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P26-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P27-SO-3	1 - 3'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**2.3**	1.5 U	1.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P27-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P28-SO-4	3 - 5'	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P28-SO-10	8.5 - 10'	2.6 U	2.6 U	**7.8**	2.6 U	2.6 U	**8.4**	2.6 U	2.6 U
ICS-P28-SO-16	15 - 17'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	**21**	1.1 U	1.1 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	1.6 U	1.6 U	**2.1**	1.6 U	1.6 U	**0.9 J**	1.6 U	1.6 U
ICS-P29-SO-4	3 - 4'	0.9 U	0.9 U	**1**	0.9 U	0.9 U	**1.6**	0.9 U	0.9 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	**10**	1.6 U	**14**	1.6 U	1.6 U	**18**	1.6 U	1.6 U
ICS-P29-SO-16	15 - 17'	1.6 U	1.6 U	**4.8**	1.6 U	1.6 U	**8**	1.6 U	1.6 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,2-Dichloro-propane µg/kg, dry	*cis* -1,3-Dichloro-propene µg/kg, dry	Trichloro-ethene µg/kg, dry	Dibromo-chloromethane µg/kg, dry	1,1,2-Trichloro-ethane µg/kg, dry	Benzene µg/kg, dry	*trans* -1,3-Dichloropropene µg/kg, dry	Bromoform µg/kg, dry
Screening Level (a)		-----	-----	1750	1560	2,300	2390	-----	16,600
ICS-DUP2	P29-SO-16	2.1 U	2.1 U	**8.7**	2.1 U	2.1 U	**11**	2.1 U	2.1 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	1.0 U	1.0 U	**1.3**	1.0 U	1.0 U	**4.1**	1.0 U	1.0 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**21**	1.0 U	1.0 U
ICS-P30-SO-16	15 - 16.5'	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	**2.8**	2.8 U	2.8 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.2**	1.4 U	1.4 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.9 J**	1.4 U	1.4 U
ICS-P31-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P31-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P31-SO-32	31 - 33'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P32-SO-16	16 - 17.5'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-SO-DUPL3	P32-SO-16	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
ICS-P32-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P33-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P33-SO-32	31 - 33'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P34-SO-4	3 - 5'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P34-SO-10	9 - 11'	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
ICS-P34-SO-16	15 - 17'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-4	3 - 5'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P35-SO-10	9 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-4	3 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.8 J**	1.5 U	1.5 U
ICS-P36-SO-10	10 - 12'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P36-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,2-Dichloro-propane µg/kg, dry	*cis* -1,3-Dichloro-propene µg/kg, dry	Trichloro-ethene µg/kg, dry	Dibromo-chloromethane µg/kg, dry	1,1,2-Trichloro-ethane µg/kg, dry	Benzene µg/kg, dry	*trans* -1,3-Dichloropropene µg/kg, dry	Bromoform µg/kg, dry
Screening Level (a)		-----	-----	1750	1560	2,300	2390	-----	16,600
ICS-Ap-10-SO	9 - 10'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**0.7 J**	1.2 U	1.2 U
ICS-Bp-10-SO	9 - 10'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Cp-10-SO	9 - 10'	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-Du-10-SO	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-Du-16-SO	15 - 17'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-FL-4-SO	3 - 5'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-7-SO	6 - 8'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-FL-10-SO	9 - 10'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-13-SO	12 - 14'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-16-SO	15.5 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**1.0 J**	1.3 U	1.3 U
ICS-FL-21-SO	20 - 22'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**1.5**	1.2 U	1.2 U
ICS-Ju-4-SO	3 - 4'	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	**3.9**	2.1 U	2.1 U
ICS-Ju-10-SO	10- 11'	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	**4.1**	2.4 U	2.4 U
ICS-Ju-15-SO	15 - 16	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Number of Samples		128	128	128	128	128	128	128	128
Number of Detections		2	0	20	0	0	55	0	0
Percent Detected		1.6%	0.0%	15.6%	0.0%	0.0%	43.0%	0.0%	0.0%
Highest Conc.		10	0	2000	0	0	1600	0	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Methyl-2-pentanone µg/kg, dry	2-Hexanone µg/kg, dry	Tetrachloro-ethene µg/kg, dry	1,1,2,2-Tetra-chloroethane µg/kg, dry	Toluene µg/kg, dry	Chloro-benzene µg/kg, dry	Ethyl-benzene µg/kg, dry	Styrene µg/kg, dry	Trichloro-fluoromethane µg/kg, dry
Screening Level (a)		-----	-----	21,000	656	280,000	70,000	350,000	700,000	1,050,000
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP1-SO-B	6.5 - 8'	8.5 U	8.5 U	1.7 U	1.7 U	**4.0**	1.7 U	**1.1 J**	1.7 U	1.7 U
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-B	5.5 - 7.5'	5.8 U	5.8 U	1.2 U	1.2 U	**16**	1.2 U	**8.3**	1.2 U	1.2 U
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-B	6 - 8'	13,000 U	13,000 U	2500 U	2500 U	**120,000**	2500 U	**130,000**	2500 U	2500 U
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-B	10 - 12'	550 U	550 U	110 U	110 U	**810**	110 U	**1800**	**100 J**	110 U
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DOF-MW1-A	4 - 5'	4.9 U	4.9 U	**0.6 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B	6.5 - 7.5'	6.2 U	6.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW1-C	11 - 12'	6.3 U	6.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A	2 - 3'	4.7 U	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B	8 - 9'	5.5 U	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW2-C	12 - 13'	6.5 U	6.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW3-A	2 - 4'	5.3 U	5.3 U	**0.6 J**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1	dup of MW3-A	5.3 U	5.3 U	**0.8 J**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B	7 - 8'	5.6 U	5.6 U	**1.9**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW4-A	3 - 4'	5.2 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B	7 - 8'	6.6 U	6.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW4-C	10 - 11'	5.6 U	5.6 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-A	3 - 4'	4.7 U	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B	7 - 8'	5.5 U	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW6-A	3 - 5'	1400 U	1400 U	280 U	280 U	**2500**	280 U	**3300**	280 U	280 U
ICS-DOF-MW6-B	6 - 8'	1400 U	1400 U	270 U	270 U	**1700**	270 U	**2300**	270 U	270 U
ICS-DOF-DUP2	dup of MW6-B	1400 U	1400 U	270 U	270 U	**550**	270 U	**640**	270 U	270 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Methyl-2-pentanone µg/kg, dry	2-Hexanone µg/kg, dry	Tetrachloro-ethene µg/kg, dry	1,1,2,2-Tetra-chloroethane µg/kg, dry	Toluene µg/kg, dry	Chloro-benzene µg/kg, dry	Ethyl-benzene µg/kg, dry	Styrene µg/kg, dry	Trichloro-fluoromethane µg/kg, dry
Screening Level (a)		-----	-----	21,000	656	280,000	70,000	350,000	700,000	1,050,000
ICS-DOF-MW6-C	9 - 10'	8.0 U	8.0 U	1.6 U	1.6 U	**4.2**	1.6 U	**4.1**	1.6 U	1.6 U
ICS-DOF-MW7-A	3 - 4'	460 U	460 U	91 U	91 U	**1300**	91 U	**1500**	91 U	91 U
ICS-DOF-MW7-B	7 - 8'	6.1 U	6.1 U	1.2 U	1.2 U	**1.4**	1.2 U	**5.3**	1.2 U	1.2 U
ICS-DOF-MW7-C	11 - 12'	6.6 U	6.6 U	1.3 U	1.3 U	**6.6**	1.3 U	**6.7**	1.3 U	1.3 U
ICS-DOF-MW8-A	3 - 4'	**5.0 J**	**9.8**	1.0 U	1.0 U	**3.8**	1.0 U	**10**	1.0 U	1.0 U
ICS-DOF-MW8-B	7 - 8'	6.7 U	6.7 U	1.3 U	1.3 U	**1.8**	**3.1**	**22**	1.3 U	1.3 U
ICS-DOF-MW8-C	11 - 12'	5.8 U	5.8 U	1.2 U	1.2 U	**1.2**	**2.5**	**0.9 J**	1.2 U	1.2 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	8.1 U	8.1 U	1.6 U	1.6 U	**3.5**	1.6 U	**7.1**	1.6 U	1.6 U
ICS-P11-SO-10	9.5 - 11'	9.7 U	9.7 U	1.9 U	1.9 U	**1.1 J**	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P11-SO-16	15 - 17'	5.9 U	5.9 U	1.2 U	1.2 U	**2**	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P12-SO-4	3 - 4.5'	7.9 U	7.9 U	1.6 U	1.6 U	**3.4**	1.6 U	**7.6**	1.6 U	1.6 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	8.9 U	8.9 U	1.8 U	1.8 U	**2**	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-13	12 - 14'	8.8 U	8.8 U	1.8 U	1.8 U	**0.9 J**	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-16	15 - 17'	7.9 U	7.9 U	1.6 U	1.6 U	**2**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P13-SO-4	4 - 6'	7.0 U	7.0 U	**5.1**	1.4 U	**6.9**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	7.4 U	7.4 U	1.5 U	1.5 U	**3.4**	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P13-SO-17	16.5 - 18'	7.3 U	7.3 U	1.5 U	1.5 U	**2.5**	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P14-SO-4	3 - 5'	7.0 U	7.0 U	1.4 U	1.4 U	**1.0 J**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	7.2 U	7.2 U	1.4 U	1.4 U	**9.7**	1.4 U	**1.9**	1.4 U	1.4 U
ICS-P14-SO-16	15 - 17'	7.1 U	7.1 U	1.4 U	1.4 U	**1.4 U**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P15-SO-4	3 - 5'	7.6 U	7.6 U	**0.8 J**	1.5 U	**17**	1.5 U	**48**	1.5 U	1.5 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	8.9 U	8.9 U	**1.7 J**	1.8 U	**73**	1.8 U	**50**	1.8 U	1.8 U
ICS-P15-SO-16	15 - 17'	8.1 U	8.1 U	1.6 U	1.6 U	**1.6**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P16-SO-4	3 - 4'	4.1 U	4.1 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	10 U	10 U	**1.8 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P16-SO-16	15 - 17'	11 U	11 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Methyl-2-pentanone µg/kg, dry	2-Hexanone µg/kg, dry	Tetrachloro-ethene µg/kg, dry	1,1,2,2-Tetra-chloroethane µg/kg, dry	Toluene µg/kg, dry	Chloro-benzene µg/kg, dry	Ethyl-benzene µg/kg, dry	Styrene µg/kg, dry	Trichloro-fluoromethane µg/kg, dry
Screening Level (a)		-----	-----	21,000	656	280,000	70,000	350,000	700,000	1,050,000
ICS-P17-SO-4	4.5 - 6.5'	7.0 U	7.0 U	1.4 U	1.4 U	**1.8**	**2.7**	**2.8**	1.4 U	1.4 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	10 U	10 U	2.0 U	2.0 U	**19**	**18**	**13**	2.0 U	2.0 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	7.2 U	7.2 U	1.4 U	1.4 U	**2.2**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	12 U	12 U	2.5 U	2.5 U	**4.3**	2.5 U	**4.4**	2.5 U	2.5 U
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	7.4 U	7.4 U	1.5 U	1.5 U	**65**	1.5 U	**8.7**	1.5 U	1.5 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	7.1 U	7.1 U	1.4 U	1.4 U	**1.1 J**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	7.1 U	7.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	9.1 U	9.1 U	1.8 U	1.8 U	**2.6**	1.8 U	**3.4**	1.8 U	1.8 U
ICS-P19-SO-10	9 - 10'	9.5 U	9.5 U	1.9 U	1.9 U	**1.1 J**	**3.1**	1.9 U	1.9 U	1.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	**7.9 J**	**7.9 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	7.6 U	7.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P20-SO-10	9.5 - 11'	6.6 U	6.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	7.7 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P21-SO-7	6 - 8'	8.6 U	8.6 U	1.7 U	1.7 U	**3.9**	1.7 U	**1.6 J**	1.7 U	1.7 U
ICS-P21-SO-13	12 - 14'	11 U	11 U	2.2 U	2.2 U	**290**	2.2 U	**280**	2.2 U	2.2 U
ICS-P21-SO-16	15 - 17'	7.2 U	7.2 U	1.4 U	1.4 U	**2.9**	1.4 U	**0.9 J**	1.4 U	1.4 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	5.9 U	5.9 U	1.2 U	1.2 U	**1.3**	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P22-SO-4	3 - 4.5'	12 U	12 U	2.4 U	2.4 U	**7.6**	2.4 U	**170**	2.4 U	2.4 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	6.5 U	6.5 U	1.3 U	1.3 U	**1.2 J**	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Methyl-2-pentanone µg/kg, dry	2-Hexanone µg/kg, dry	Tetrachloro-ethene µg/kg, dry	1,1,2,2-Tetra-chloroethane µg/kg, dry	Toluene µg/kg, dry	Chloro-benzene µg/kg, dry	Ethyl-benzene µg/kg, dry	Styrene µg/kg, dry	Trichloro-fluoromethane µg/kg, dry
Screening Level (a)		-----	-----	21,000	656	280,000	70,000	350,000	700,000	1,050,000
ICS-P22-SO-16	15 - 17'	7.6 U	7.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P23-SO-3	2 - 4'	7.2 U	7.2 U	1.4 U	1.4 U	**2**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P23-SO-10	9.5 - 11	3.6 U	3.6 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	6.6 U	6.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P24-SO-4	3 - 5'	7.9 U	7.9 U	**2.4**	1.6 U	**0.8 J**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P24-SO-10	9 - 10.5'	7.6 U	7.6 U	1.5 U	1.5 U	**2.4**	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	5.8 U	5.8 U	1.2 U	1.2 U	**0.8 J**	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P25-SO-3	1 - 3'	7.3 U	7.3 U	1.5 U	1.5 U	**1.0 J**	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P25-SO-10	9 - 11'	7.2 U	7.2 U	1.4 U	1.4 U	**1.1 J**	**1.2 J**	1.4 U	1.4 U	1.4 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	7.5 U	7.5 U	1.5 U	1.5 U	**0.9 J**	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P26-SO-4	3 - 5'	6.4 U	6.4 U	**0.7 J**	1.3 U	**2.2**	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	8.2 U	8.2 U	1.6 U	1.6 U	**1.3 J**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P26-SO-16	15 - 17'	7.1 U	7.1 U	1.4 U	1.4 U	**1.0 J**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P27-SO-3	1 - 3'	7.4 U	7.4 U	1.5 U	1.5 U	**2.3**	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	7.8 U	7.8 U	1.6 U	1.6 U	**1.8**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	6.0 U	6.0 U	1.2 U	1.2 U	**0.6 J**	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P27-SO-32	31 - 33'	6.2 U	6.2 U	1.2 U	1.2 U	**1.1 J**	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P28-SO-4	3 - 5'	9.5 U	9.5 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P28-SO-10	8.5 - 10'	13 U	13 U	2.6 U	2.6 U	**84**	**25**	**67**	2.6 U	2.6 U
ICS-P28-SO-16	15 - 17'	5.7 U	5.7 U	1.1 U	1.1 U	**33**	**5.7**	**28**	1.1 U	1.1 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	8.1 U	8.1 U	1.6 U	1.6 U	**1.2 J**	**1.6 J**	1.6 U	1.6 U	1.6 U
ICS-P29-SO-4	3 - 4'	4.6 U	4.6 U	0.9 U	0.9 U	**3**	0.9 U	**1.9**	0.9 U	0.9 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	8.1 U	8.1 U	**5.8**	1.6 U	**1900**	**3.8**	**720**	**100**	1.6 U
ICS-P29-SO-16	15 - 17'	8.1 U	8.1 U	1.6 U	1.6 U	**110**	1.6 U	**66**	**1.3 J**	1.6 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Methyl-2-pentanone µg/kg, dry	2-Hexanone µg/kg, dry	Tetrachloro-ethene µg/kg, dry	1,1,2,2-Tetra-chloroethane µg/kg, dry	Toluene µg/kg, dry	Chloro-benzene µg/kg, dry	Ethyl-benzene µg/kg, dry	Styrene µg/kg, dry	Trichloro-fluoromethane µg/kg, dry
Screening Level (a)		-----	-----	21,000	656	280,000	70,000	350,000	700,000	1,050,000
ICS-DUP2	P29-SO-16	10 U	10 U	**1.1 J**	2.1 U	**150**	2.1 U	**96**	**2.0 J**	2.1 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	8.0 U	8.0 U	1.6 U	1.6 U	**0.9 J**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	5.0 U	5.0 U	**0.8**	1.0 U	**390**	1.0 U	**2700**	**87**	1.0 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	5.0 U	5.0 U	1.0 U	1.0 U	**4**	1.0 U	**2**	**0.7**	1.0 U
ICS-P30-SO-16	15 - 16.5'	14 U	14 U	2.8 U	2.8 U	**2.1**	2.8 U	2.8 U	2.8 U	2.8 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	7.2 U	7.2 U	1.4 U	1.4 U	**0.9**	1.4 U	**1.1**	1.4 U	1.4 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	6.8 U	6.8 U	1.4 U	1.4 U	**1.5**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P31-SO-10	9 - 11'	8.2 U	8.2 U	1.6 U	1.6 U	**0.9 J**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P31-SO-16	15 - 17'	8.6 U	8.6 U	1.7 U	1.7 U	**1.1 J**	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P31-SO-32	31 - 33'	6.7 U	6.7 U	1.3 U	1.3 U	**0.9 J**	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P32-SO-16	16 - 17.5'	7.9 U	7.9 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-SO-DUPL3	P32-SO-16	15 U	15 U	3.0 U	3.0 U	**7.7**	3.0 U	3.0 U	3.0 U	3.0 U
ICS-P32-SO-32	31 - 33'	8.2 U	8.2 U	1.6 U	1.6 U	**1.0 J**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P33-SO-16	15 - 17'	7.1 U	7.1 U	1.4 U	1.4 U	**0.7 J**	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P33-SO-32	31 - 33'	6.5 U	6.5 U	1.3 U	1.3 U	**0.8 J**	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P34-SO-4	3 - 5'	9.2 U	9.2 U	1.8 U	1.8 U	**1.7 J**	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P34-SO-10	9 - 11'	10 U	10 U	2.1 U	2.1 U	**1.2 J**	2.1 U	2.1 U	2.1 U	2.1 U
ICS-P34-SO-16	15 - 17'	9.0 U	9.0 U	1.8 U	1.8 U	**1.0 J**	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-4	3 - 5'	8.5 U	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P35-SO-10	9 - 11'	8.9 U	8.9 U	1.8 U	1.8 U	**1.0 J**	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-16	15 - 17'	7.5 U	7.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-4	3 - 4'	7.4 U	7.4 U	1.5 U	1.5 U	**1.4 J**	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-10	10 - 12'	7.9 U	7.9 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P36-SO-16	15 - 17'	8.6 U	8.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Methyl-2-pentanone µg/kg, dry	2-Hexanone µg/kg, dry	Tetrachloro-ethene µg/kg, dry	1,1,2,2-Tetra-chloroethane µg/kg, dry	Toluene µg/kg, dry	Chloro-benzene µg/kg, dry	Ethyl-benzene µg/kg, dry	Styrene µg/kg, dry	Trichloro-fluoromethane µg/kg, dry
Screening Level (a)		-----	-----	21,000	656	280,000	70,000	350,000	700,000	1,050,000
ICS-Ap-10-SO	9 - 10'	6.0 U	6.0 U	1.2 U	1.2 U	**1.1 J**	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Bp-10-SO	9 - 10'	6.2 U	6.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Cp-10-SO	9 - 10'	10 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-Du-10-SO	9 - 10'	7.8 U	7.8 U	1.6 U	1.6 U	**1.3 J**	1.6 U	1.6 U	1.6 U	1.6 U
ICS-Du-16-SO	15 - 17'	5.7 U	5.7 U	1.1 U	1.1 U	**0.7 J**	1.1 U	1.1 U	1.1 U	1.1 U
ICS-FL-4-SO	3 - 5'	7.4 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-7-SO	6 - 8'	9.1 U	9.1 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-FL-10-SO	9 - 10'	7.6 U	7.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-13-SO	12 - 14'	7.7 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-16-SO	15.5 - 17'	6.7 U	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-FL-21-SO	20 - 22'	6.0 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Ju-4-SO	3 - 4'	11 U	11 U	2.1 U	2.1 U	**5.8**	2.1 U	**9.6**	2.1 U	2.1 U
ICS-Ju-10-SO	10- 11'	12 U	12 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
ICS-Ju-15-SO	15 - 16	6.1 U	6.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Number of Samples		128	128	128	128	128	128	128	128	128
Number of Detections		2	2	10	0	86	10	38	6	0
Percent Detected		1.6%	1.6%	7.8%	0.0%	67.2%	7.8%	29.7%	4.7%	0.0%
Highest Conc.		7.9	9.8	5.8	0	120000	25	130000	100	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	1,1,2-Trichloro-1,2,2-trifluoroethane µg/kg, dry	*m* - & *p* - Xylenes µg/kg, dry	*o* -Xylene µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Acrolein µg/kg, dry	Bromoethane µg/kg, dry	1,1-Dichloro-propene µg/kg, dry
Screening Level (a)		105,000,000	700,000 (total)		315,000	-----	24,300	1750	-----	-----
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP1-SO-B	6.5 - 8'	3.4 U	**1.9**	**1.2 J**	1.7 U	1.7 U	*see SVOA's*	85 U	3.4 U	1.7 U
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-B	5.5 - 7.5'	2.3 U	**7.1**	**1.4**	1.2 U	1.2 U	1.2 U	58 U	2.3 U	1.2 U
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-B	6 - 8'	5100 U	**120,000**	**34,000**	*see SVOA's*	*see SVOA's*	*see SVOA's*	130,000 U	5100 U	2500 U
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-B	10 - 12'	220 U	**2900**	**550**	**150**	*see SVOA's*	**200**	5500 U	220 U	110 U
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DOF-MW1-A	4 - 5'	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	49 U	2.0 U	1.0 U
ICS-DOF-MW1-B	6.5 - 7.5'	2.5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	62 U	2.5 U	1.2 U
ICS-DOF-MW1-C	11 - 12'	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	63 U	2.5 U	1.3 U
ICS-DOF-MW2-A	2 - 3'	1.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	47 U	1.9 U	0.9 U
ICS-DOF-MW2-B	8 - 9'	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	55 U	2.2 U	1.1 U
ICS-DOF-MW2-C	12 - 13'	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	65 U	2.6 U	1.3 U
ICS-DOF-MW3-A	2 - 4'	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	53 U	2.1 U	1.1 U
ICS-DOF-DUP1	dup of MW3-A	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	53 U	2.1 U	1.1 U
ICS-DOF-MW3-B	7 - 8'	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	56 U	2.2 U	1.1 U
ICS-DOF-MW4-A	3 - 4'	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	52 U	2.1 U	1.0 U
ICS-DOF-MW4-B	7 - 8'	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	66 U	2.6 U	1.3 U
ICS-DOF-MW4-C	10 - 11'	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	56 U	2.2 U	1.1 U
ICS-DOF-MW5-A	3 - 4'	1.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	47 U	1.9 U	0.9 U
ICS-DOF-MW5-B	7 - 8'	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	55 U	2.2 U	1.1 U
ICS-DOF-MW6-A	3 - 5'	550 U	**7700**	**2500**	**660**	**770**	**2100**	14,000 U	550 U	280 U
ICS-DOF-MW6-B	6 - 8'	550 U	**5200**	**1700**	**490**	**640**	**1800**	14,000 U	550 U	270 U
ICS-DOF-DUP2	dup of MW6-B	540 U	**1500**	**500**	**200 J**	**320**	**870**	14,000 U	540 U	270 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,1,2-Trichloro-1,2,2-trifluoroethane µg/kg, dry	*m* - & *p* - Xylenes µg/kg, dry	*o* -Xylene µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Acrolein µg/kg, dry	Bromoethane µg/kg, dry	1,1-Dichloro-propene µg/kg, dry
Screening Level (a)		105,000,000	700,000 (total)		315,000	-----	24,300	1750	-----	-----
ICS-DOF-MW6-C	9 - 10'	3.2 U	**2.7**	**2.3**	*see SVOA's*	*see SVOA's*	*see SVOA's*	80 U	3.2 U	1.6 U
ICS-DOF-MW7-A	3 - 4'	180 U	**2400**	**940**	*see SVOA's*	*see SVOA's*	*see SVOA's*	4600 U	180 U	91 U
ICS-DOF-MW7-B	7 - 8'	2.4 U	**3.4**	**1.4**	*see SVOA's*	*see SVOA's*	*see SVOA's*	61 U	2.4 U	1.2 U
ICS-DOF-MW7-C	11 - 12'	2.6 U	**25**	**4.4**	1.3 U	1.3 U	1.3 U	66 U	2.6 U	1.3 U
ICS-DOF-MW8-A	3 - 4'	2.1 U	**17**	**5.0**	1.0 U	1.0 U	1.0 U	51 U	2.1 U	1.0 U
ICS-DOF-MW8-B	7 - 8'	2.7 U	**160**	1.3 U	**1.5**	1.3 U	1.3 U	67 U	2.7 U	1.3 U
ICS-DOF-MW8-C	11 - 12'	2.3 U	**28**	**1.0 J**	1.2 U	1.2 U	1.2 U	58 U	2.3 U	1.2 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	3.2 U	**8**	**2.7**	1.6 U	1.6 U	1.6 U	81 U	3.2 U	1.6 U
ICS-P11-SO-10	9.5 - 11'	3.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	97 U	3.9 U	1.9 U
ICS-P11-SO-16	15 - 17'	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	59 U	2.4 U	1.2 U
ICS-P12-SO-4	3 - 4.5'	3.2 U	**31**	**3.4**	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	3.6 U	**8.2**	**2.1**	1.8 U	1.8 U	1.8 U	89 U	3.6 U	1.8 U
ICS-P12-SO-13	12 - 14'	3.5 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	88 U	3.5 U	1.8 U
ICS-P12-SO-16	15 - 17'	3.1 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.1 U	1.6 U
ICS-P13-SO-4	4 - 6'	2.8 U	**1.3 J**	**1.0 J**	1.4 U	1.4 U	1.4 U	70 U	2.8 U	1.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	74 U	3.0 U	1.5 U
ICS-P13-SO-17	16.5 - 18'	2.9 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	73 U	2.9 U	1.5 U
ICS-P14-SO-4	3 - 5'	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	70 U	2.8 U	1.4 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	2.9 U	**5.5**	**1.3 J**	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P14-SO-16	15 - 17'	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P15-SO-4	3 - 5'	3.1 U	**33**	**35**	1.5 U	1.5 U	1.5 U	76 U	3.1 U	1.5 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	3.6 U	**110**	**30**	1.8 U	1.8 U	1.8 U	89 U	3.6 U	1.8 U
ICS-P15-SO-16	15 - 17'	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	81 U	3.2 U	1.6 U
ICS-P16-SO-4	3 - 4'	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	41 U	1.7 U	0.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U	4.1 U	2.0 U
ICS-P16-SO-16	15 - 17'	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	110 U	4.5 U	2.3 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	1,1,2-Trichloro-1,2,2-trifluoroethane µg/kg, dry	*m* - & *p* - Xylenes µg/kg, dry	*o* -Xylene µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Acrolein µg/kg, dry	Bromoethane µg/kg, dry	1,1-Dichloro-propene µg/kg, dry
Screening Level (a)		105,000,000	700,000 (total)		315,000	-----	24,300	1750	-----	-----
ICS-P17-SO-4	4.5 - 6.5'	2.8 U	**3.8**	**3.3**	**8.9**	**470**	**520**	70 U	2.8 U	1.4 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	4.1 U	**19**	**7.8**	2.0 U	2.0 U	2.0 U	100 U	4.1 U	2.0 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	2.9 U	**1.1 J**	**0.7 J**	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	4.9 U	**8**	**3.2**	**2.4 J**	2.5 U	2.5 U	120 U	4.9 U	2.5 U
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	2.9 U	**480**	**220**	**17**	1.5 U	1.5 U	74 U	2.9 U	1.5 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	2.8 U	**1.4 J**	**4**	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.9 U	1.4 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	3.6 U	**2.8**	**2.5**	1.8 U	1.8 U	1.8 U	91 U	3.6 U	1.8 U
ICS-P19-SO-10	9 - 10'	3.8 U	1.9 U	1.9 U	**3.6**	**2.5**	**6.1**	95 U	3.8 U	1.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	76 U	3.0 U	1.5 U
ICS-P20-SO-10	9.5 - 11'	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	66 U	2.7 U	1.3 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	77 U	3.1 U	1.5 U
ICS-P21-SO-7	6 - 8'	3.5 U	**5.4**	**2.1**	1.7 U	1.7 U	1.7 U	86 U	3.5 U	1.7 U
ICS-P21-SO-13	12 - 14'	4.5 U	**190**	**92**	**2.7**	2.2 U	2.2 U	110 U	4.5 U	2.2 U
ICS-P21-SO-16	15 - 17'	2.9 U	**30**	1.4 U	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	59 U	2.4 U	1.2 U
ICS-P22-SO-4	3 - 4.5'	4.9 U	**57**	**19**	**1.8 J**	2.4 U	2.4 U	120 U	4.9 U	2.4 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	2.6 U	**1.7**	1.3 U	1.3 U	1.3 U	1.3 U	65 U	2.6 U	1.3 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,1,2-Trichloro-1,2,2-trifluoroethane µg/kg, dry	*m* - & *p* - Xylenes µg/kg, dry	*o* -Xylene µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Acrolein µg/kg, dry	Bromoethane µg/kg, dry	1,1-Dichloro-propene µg/kg, dry
Screening Level (a)		105,000,000	700,000 (total)		315,000	-----	24,300	1750	-----	-----
ICS-P22-SO-16	15 - 17'	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	76 U	3.0 U	1.5 U
ICS-P23-SO-3	2 - 4'	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P23-SO-10	9.5 - 11	1.4 U	0.7 U	0.7 U	0.7 U	0.7 U	**2.6**	36 U	1.4 U	0.7 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	66 U	2.6 U	1.3 U
ICS-P24-SO-4	3 - 5'	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-P24-SO-10	9 - 10.5'	3.0 U	**1.5 J**	1.5 U	1.5 U	1.5 U	1.5 U	76 U	3.0 U	1.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	2.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	58 U	2.3 U	1.2 U
ICS-P25-SO-3	1 - 3'	2.9 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	73 U	2.9 U	1.5 U
ICS-P25-SO-10	9 - 11'	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.9 J**	72 U	2.9 U	1.4 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	75 U	3.0 U	1.5 U
ICS-P26-SO-4	3 - 5'	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	64 U	2.6 U	1.3 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	3.3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	82 U	3.3 U	1.6 U
ICS-P26-SO-16	15 - 17'	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P27-SO-3	1 - 3'	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	74 U	3.0 U	1.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	3.1 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	78 U	3.1 U	1.6 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	60 U	2.4 U	1.2 U
ICS-P27-SO-32	31 - 33'	2.5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	62 U	2.5 U	1.2 U
ICS-P28-SO-4	3 - 5'	3.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	95 U	3.8 U	1.9 U
ICS-P28-SO-10	8.5 - 10'	**1.5 J**	**90**	**41**	**45**	**64**	**200**	130 U	5.1 U	2.6 U
ICS-P28-SO-16	15 - 17'	2.3 U	**26**	**9.6**	1.1 U	1.1 U	**0.6 J**	57 U	2.3 U	1.1 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	**2.5 J**	1.6 U	1.6 U	1.6 U	1.6 U	**0.9 J**	81 U	3.2 U	1.6 U
ICS-P29-SO-4	3 - 4'	1.8 U	**4.5**	**5.3**	**47**	**13**	**73**	46 U	1.8 U	0.9 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	3.2 U	**570**	**220**	**19**	**3.3**	**5.3**	81 U	3.2 U	1.6 U
ICS-P29-SO-16	15 - 17'	3.2 U	**120**	**51**	**1.8**	1.6 U	1.6 U	81 U	3.2 U	1.6 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	1,1,2-Trichloro-1,2,2-trifluoroethane µg/kg, dry	*m* - & *p* - Xylenes µg/kg, dry	*o* -Xylene µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Acrolein µg/kg, dry	Bromoethane µg/kg, dry	1,1-Dichloro-propene µg/kg, dry
Screening Level (a)		105,000,000	700,000 (total)		315,000	-----	24,300	1750	-----	-----
ICS-DUP2	P29-SO-16	4.1 U	**170**	**76**	**3.2**	2.1 U	2.1 U	100 U	4.1 U	2.1 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	80 U	3.2 U	1.6 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	2.0 U	**730**	**510**	**140**	1.0 U	**6**	50 U	2.0 U	1.0 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	2.0 U	**5.3**	**2.2**	1.0 U	1.0 U	1.0 U	50 U	2.0 U	1.0 U
ICS-P30-SO-16	15 - 16.5'	5.6 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	140 U	5.6 U	2.8 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	2.9 U	**3.4**	1.4 U	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	68 U	2.7 U	1.4 U
ICS-P31-SO-10	9 - 11'	3.3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	82 U	3.3 U	1.6 U
ICS-P31-SO-16	15 - 17'	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	86 U	3.4 U	1.7 U
ICS-P31-SO-32	31 - 33'	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	67 U	2.7 U	1.3 U
ICS-P32-SO-16	16 - 17.5'	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-SO-DUPL3	P32-SO-16	6.1 U	**3.8**	3.0 U	3.0 U	3.0 U	3.0 U	150 U	6.1 U	3.0 U
ICS-P32-SO-32	31 - 33'	3.3 U	**1.2 J**	1.6 U	1.6 U	1.6 U	1.6 U	82 U	3.3 U	1.6 U
ICS-P33-SO-16	15 - 17'	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P33-SO-32	31 - 33'	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	65 U	2.6 U	1.3 U
ICS-P34-SO-4	3 - 5'	3.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	92 U	3.7 U	1.8 U
ICS-P34-SO-10	9 - 11'	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	100 U	4.2 U	2.1 U
ICS-P34-SO-16	15 - 17'	3.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	90 U	3.6 U	1.8 U
ICS-P35-SO-4	3 - 5'	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	85 U	3.4 U	1.7 U
ICS-P35-SO-10	9 - 11'	3.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	89 U	3.6 U	1.8 U
ICS-P35-SO-16	15 - 17'	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	75 U	3.0 U	1.5 U
ICS-P36-SO-4	3 - 4'	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	74 U	3.0 U	1.5 U
ICS-P36-SO-10	10 - 12'	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-P36-SO-16	15 - 17'	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	86 U	3.4 U	1.7 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	1,1,2-Trichloro-1,2,2-trifluoroethane µg/kg, dry	*m* - & *p* - Xylenes µg/kg, dry	*o* -Xylene µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Acrolein µg/kg, dry	Bromoethane µg/kg, dry	1,1-Dichloro-propene µg/kg, dry
Screening Level (a)		105,000,000	700,000 (total)		315,000	-----	24,300	1750	-----	-----
ICS-Ap-10-SO	9 - 10'	2.4 U	**0.8 J**	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	60 U	2.4 U	1.2 U
ICS-Bp-10-SO	9 - 10'	2.5 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	62 U	2.5 U	1.2 U
ICS-Cp-10-SO	9 - 10'	4.0 U	2.0 U	2.0 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	100 U	4.0 U	2.0 U
ICS-Du-10-SO	9 - 10'	3.1 U	1.6 U	1.6 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	78 U	3.1 U	1.6 U
ICS-Du-16-SO	15 - 17'	2.3 U	1.1 U	1.1 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	57 U	2.3 U	1.1 U
ICS-FL-4-SO	3 - 5'	3.0 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	74 U	3.0 U	1.5 U
ICS-FL-7-SO	6 - 8'	3.6 U	1.8 U	1.8 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	91 U	3.6 U	1.8 U
ICS-FL-10-SO	9 - 10'	3.0 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	76 U	3.0 U	1.5 U
ICS-FL-13-SO	12 - 14'	3.1 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	77 U	3.1 U	1.5 U
ICS-FL-16-SO	15.5 - 17'	2.7 U	1.3 U	1.3 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	67 U	2.7 U	1.3 U
ICS-FL-21-SO	20 - 22'	2.4 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	60 U	2.4 U	1.2 U
ICS-Ju-4-SO	3 - 4'	4.3 U	**11**	**2.9**	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	110 U	4.3 U	2.1 U
ICS-Ju-10-SO	10- 11'	4.7 U	2.4 U	**1.3 J**	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	120 U	4.7 U	2.4 U
ICS-Ju-15-SO	15 - 16	2.5 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	61 U	2.5 U	1.2 U
Number of Samples		128	128	128	128	128	128	128	128	128
Number of Detections		2	47	40	16	8	14	0	0	0
Percent Detected		1.6%	36.7%	31.3%	12.5%	6.3%	10.9%	0.0%	0.0%	0.0%
Highest Conc.		2.5	120000	34000	660	770	2100	0	0	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Dibromo-methane µg/kg, dry	1,1,1,2-Tetra-chloroethane µg/kg, dry	1,2,3-Trichloro-propane µg/kg, dry	*trans*-1,4-Dichloro-2-butene µg/kg, dry	1,3,5-Trimethyl-benzene µg/kg, dry	1,2,4-Trimethyl-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Ethylene dibromide µg/kg, dry
Screening Level (a)		-----	5050	4.4	-----	35,000	-----	1680	65.6
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP1-SO-B	6.5 - 8'	1.7 U	1.7 U	3.4 U	8.5 U	1.7 U	1.7 U	-----	1.7 U
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-B	5.5 - 7.5'	1.2 U	1.2 U	2.3 U	5.8 U	1.2 U	1.2 U	-----	1.2 U
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-B	6 - 8'	2500 U	2500 U	5100 U	13,000 U	**7500**	**24,000**	-----	2500 U
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-B	10 - 12'	110 U	110 U	220 U	550 U	**330**	**1500**	-----	110 U
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DOF-MW1-A	4 - 5'	1.0 U	1.0 U	2.0 U	4.9 U	1.0 U	1.0 U	-----	1.0 U
ICS-DOF-MW1-B	6.5 - 7.5'	1.2 U	1.2 U	2.5 U	62 U	1.2 U	1.2 U	-----	1.2 U
ICS-DOF-MW1-C	11 - 12'	1.3 U	1.3 U	2.5 U	63 U	1.3 U	1.3 U	-----	1.3 U
ICS-DOF-MW2-A	2 - 3'	0.9 U	0.9 U	1.9 U	4.7 U	0.9 U	0.9 U	-----	0.9 U
ICS-DOF-MW2-B	8 - 9'	1.1 U	1.1 U	2.2 U	5.5 U	1.1 U	1.1 U	-----	1.1 U
ICS-DOF-MW2-C	12 - 13'	1.3 U	1.3 U	2.6 U	6.5 U	1.3 U	1.3 U	-----	1.3 U
ICS-DOF-MW3-A	2 - 4'	1.1 U	1.1 U	2.1 U	5.3 U	1.1 U	1.1 U	-----	1.1 U
ICS-DOF-DUP1	dup of MW3-A	1.1 U	1.1 U	2.1 U	5.3 U	1.1 U	1.1 U	-----	1.1 U
ICS-DOF-MW3-B	7 - 8'	1.1 U	1.1 U	2.2 U	5.6 U	1.1 U	1.1 U	-----	1.1 U
ICS-DOF-MW4-A	3 - 4'	1.0 U	1.0 U	2.1 U	5.2 U	1.0 U	1.0 U	-----	1.0 U
ICS-DOF-MW4-B	7 - 8'	1.3 U	1.3 U	2.6 U	6.6 U	1.3 U	1.3 U	-----	1.3 U
ICS-DOF-MW4-C	10 - 11'	1.1 U	1.1 U	2.2 U	5.6 U	1.1 U	1.1 U	-----	1.1 U
ICS-DOF-MW5-A	3 - 4'	0.9 U	0.9 U	1.9 U	4.7 U	0.9 U	0.9 U	-----	0.9 U
ICS-DOF-MW5-B	7 - 8'	1.1 U	1.1 U	2.2 U	5.5 U	1.1 U	1.1 U	-----	1.1 U
ICS-DOF-MW6-A	3 - 5'	280 U	280 U	550 U	1400 U	**4600**	**13,000**	-----	280 U
ICS-DOF-MW6-B	6 - 8'	270 U	270 U	550 U	1400 U	**3100**	**8600**	-----	270 U
ICS-DOF-DUP2	dup of MW6-B	270 U	270 U	540 U	1400 U	**1000**	**2800**	-----	270 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dibromo-methane µg/kg, dry	1,1,1,2-Tetra-chloroethane µg/kg, dry	1,2,3-Trichloro-propane µg/kg, dry	*trans*-1,4-Dichloro-2-butene µg/kg, dry	1,3,5-Trimethyl-benzene µg/kg, dry	1,2,4-Trimethyl-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Ethylene dibromide µg/kg, dry
Screening Level (a)		-----	5050	4.4	-----	35,000	-----	1680	65.6
ICS-DOF-MW6-C	9 - 10'	1.6 U	1.6 U	3.2 U	8.0 U	1.6 U	**1.2 J**	-----	1.6 U
ICS-DOF-MW7-A	3 - 4'	91 U	91 U	180 U	460 U	**130**	**380**	-----	91 U
ICS-DOF-MW7-B	7 - 8'	1.2 U	1.2 U	2.4 U	6.1 U	1.2 U	1.2 U	-----	1.2 U
ICS-DOF-MW7-C	11 - 12'	1.3 U	1.3 U	2.6 U	6.6 U	**1.5**	**2.3**	-----	1.3 U
ICS-DOF-MW8-A	3 - 4'	1.0 U	1.0 U	2.1 U	5.1 U	**1.7**	**4.3**	-----	1.0 U
ICS-DOF-MW8-B	7 - 8'	1.3 U	1.3 U	2.7 U	6.7 U	**4.7**	**17**	-----	1.3 U
ICS-DOF-MW8-C	11 - 12'	1.2 U	1.2 U	2.3 U	5.8 U	1.2 U	**0.6 J**	-----	1.2 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	1.6 U	1.6 U	3.2 U	8.1 U	**2.1**	**11**	*(see Cl pest.)*	1.6 U
ICS-P11-SO-10	9.5 - 11'	1.9 U	1.9 U	3.9 U	9.7 U	1.9 U	1.9 U	*(see Cl pest.)*	1.9 U
ICS-P11-SO-16	15 - 17'	1.2 U	1.2 U	2.4 U	5.9 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U
ICS-P12-SO-4	3 - 4.5'	1.6 U	1.6 U	3.2 U	7.9 U	**2.4**	**17**	*(see Cl pest.)*	1.6 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	1.8 U	1.8 U	3.6 U	8.9 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U
ICS-P12-SO-13	12 - 14'	1.8 U	1.8 U	3.5 U	8.8 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U
ICS-P12-SO-16	15 - 17'	1.6 U	1.6 U	3.1 U	7.9 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P13-SO-4	4 - 6'	1.4 U	1.4 U	2.8 U	7.0 U	**2**	**5.7**	*(see Cl pest.)*	1.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	**2.1**	*(see Cl pest.)*	1.5 U
ICS-P13-SO-17	16.5 - 18'	1.5 U	1.5 U	2.9 U	7.3 U	1.5 U	**1.3 J**	*(see Cl pest.)*	1.5 U
ICS-P14-SO-4	3 - 5'	1.4 U	1.4 U	2.8 U	7.0 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P14-SO-16	15 - 17'	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P15-SO-4	3 - 5'	1.5 U	1.5 U	3.1 U	7.6 U	**4.4**	**12**	*(see Cl pest.)*	1.5 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	1.8 U	1.8 U	3.6 U	8.9 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U
ICS-P15-SO-16	15 - 17'	1.6 U	1.6 U	3.2 U	8.1 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P16-SO-4	3 - 4'	0.8 U	0.8 U	1.7 U	4.1 U	0.8 U	0.8 U	4.1 U	0.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	2.0 U	2.0 U	4.1 U	10 U	2.0 U	2.0 U	*(see Cl pest.)*	2.0 U
ICS-P16-SO-16	15 - 17'	2.3 U	2.3 U	4.5 U	11 U	2.3 U	2.3 U	*(see Cl pest.)*	2.3 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dibromo-methane µg/kg, dry	1,1,1,2-Tetra-chloroethane µg/kg, dry	1,2,3-Trichloro-propane µg/kg, dry	*trans* -1,4-Dichloro-2-butene µg/kg, dry	1,3,5-Trimethyl-benzene µg/kg, dry	1,2,4-Trimethyl-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Ethylene dibromide µg/kg, dry
Screening Level (a)		-----	5050	4.4	-----	35,000	-----	1680	65.6
ICS-P17-SO-4	4.5 - 6.5'	1.4 U	1.4 U	2.8 U	7.0 U	1.4 U	**5**	7.0 U	1.4 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	2.0 U	2.0 U	4.1 U	10 U	2.0 U	**2.7**	10 U	2.0 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	7.2 U	1.4 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	2.5 U	2.5 U	4.9 U	12 U	**5.5**	**52**	*(see Cl pest.)*	2.5 U
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	1.5 U	1.5 U	2.9 U	7.4 U	**75**	**440 JM**	*(see Cl pest.)*	1.5 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	**8.3**	7.1 U	1.4 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	1.4 U	1.4 U	2.9 U	7.1 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	1.8 U	1.8 U	3.6 U	9.1 U	1.8 U	**3**	*(see Cl pest.)*	1.8 U
ICS-P19-SO-10	9 - 10'	1.9 U	1.9 U	3.8 U	9.5 U	1.9 U	1.9 U	9.5 U	1.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	7.6 U	1.5 U
ICS-P20-SO-10	9.5 - 11'	1.3 U	1.3 U	2.7 U	6.6 U	1.3 U	1.3 U	*(see Cl pest.)*	1.3 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	1.5 U	1.5 U	3.1 U	7.7 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-P21-SO-7	6 - 8'	1.7 U	1.7 U	3.5 U	8.6 U	**1.7 J**	**2.7**	8.6 U	1.7 U
ICS-P21-SO-13	12 - 14'	2.2 U	2.2 U	4.5 U	11 U	**11**	**32**	*(see Cl pest.)*	2.2 U
ICS-P21-SO-16	15 - 17'	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	**34**	*(see Cl pest.)*	1.4 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	1.2 U	1.2 U	2.4 U	5.9 U	1.2 U	**0.9 J**	(see Cl pest.)	1.2 U
ICS-P22-SO-4	3 - 4.5'	2.4 U	2.4 U	4.9 U	12 U	**8.4**	**32**	*(see Cl pest.)*	2.4 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	1.3 U	1.3 U	2.6 U	6.5 U	1.3 U	**0.8 J**	*(see Cl pest.)*	1.3 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dibromo-methane µg/kg, dry	1,1,1,2-Tetra-chloroethane µg/kg, dry	1,2,3-Trichloro-propane µg/kg, dry	*trans*-1,4-Dichloro-2-butene µg/kg, dry	1,3,5-Trimethyl-benzene µg/kg, dry	1,2,4-Trimethyl-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Ethylene dibromide µg/kg, dry
Screening Level (a)		-----	5050	4.4	-----	35,000	-----	1680	65.6
ICS-P22-SO-16	15 - 17'	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-P23-SO-3	2 - 4'	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P23-SO-10	9.5 - 11	0.7 U	0.7 U	1.4 U	3.6 U	0.7 U	0.7 U	*(see Cl pest.)*	0.7 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	1.3 U	1.3 U	2.6 U	6.6 U	1.3 U	1.3 U	(see Cl pest.)	1.3 U
ICS-P24-SO-4	3 - 5'	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P24-SO-10	9 - 10.5'	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	1.2 U	1.2 U	2.3 U	5.8 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U
ICS-P25-SO-3	1 - 3'	1.5 U	1.5 U	2.9 U	7.3 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-P25-SO-10	9 - 11'	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	7.2 U	1.4 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	1.5 U	1.5 U	3.0 U	7.5 U	1.5 U	1.5 U	7.5 U	1.5 U
ICS-P26-SO-4	3 - 5'	1.3 U	1.3 U	2.6 U	6.4 U	1.3 U	1.3 U	*(see Cl pest.)*	1.3 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	1.6 U	1.6 U	3.3 U	8.2 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P26-SO-16	15 - 17'	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P27-SO-3	1 - 3'	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	1.6 U	1.6 U	3.1 U	7.8 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	1.2 U	1.2 U	2.4 U	6.0 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U
ICS-P27-SO-32	31 - 33'	1.2 U	1.2 U	2.5 U	6.2 U	1.2 U	1.2 U	**6.2 U**	1.2 U
ICS-P28-SO-4	3 - 5'	1.9 U	1.9 U	3.8 U	9.5 U	1.9 U	1.9 U	*(see Cl pest.)*	1.9 U
ICS-P28-SO-10	8.5 - 10'	2.6 U	2.6 U	5.1 U	13 U	**17**	**140**	*(see Cl pest.)*	2.6 U
ICS-P28-SO-16	15 - 17'	1.1 U	1.1 U	2.3 U	5.7 U	1.1 U	**1.7**	*(see Cl pest.)*	1.1 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	1.6 U	1.6 U	3.2 U	8.1 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P29-SO-4	3 - 4'	0.9 U	0.9 U	1.8 U	4.6 U	0.9 U	6.5	4.6 U	0.9 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	1.6 U	1.6 U	3.2 U	8.1 U	**120**	**410**	8.1 U	1.6 U
ICS-P29-SO-16	15 - 17'	1.6 U	1.6 U	3.2 U	8.1 U	**22**	**55**	*(see Cl pest.)*	1.6 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dibromo-methane µg/kg, dry	1,1,1,2-Tetra-chloroethane µg/kg, dry	1,2,3-Trichloro-propane µg/kg, dry	*trans*-1,4-Dichloro-2-butene µg/kg, dry	1,3,5-Trimethyl-benzene µg/kg, dry	1,2,4-Trimethyl-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Ethylene dibromide µg/kg, dry
Screening Level (a)		-----	5050	4.4	-----	35,000	-----	1680	65.6
ICS-DUP2	P29-SO-16	2.1 U	2.1 U	4.1 U	10 U	**37**	**95**	*(see Cl pest.)*	2.1 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	1.6 U	1.6 U	3.2 U	8.0 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	1.0 U	1.0 U	2.0 U	5.0 U	**250**	**1700**	*(see Cl pest.)*	1.0 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	1.0 U	1.0 U	2.0 U	5.0 U	**1.3**	**3.5**	*(see Cl pest.)*	1.0 U
ICS-P30-SO-16	15 - 16.5'	2.8 U	2.8 U	5.6 U	14 U	2.8 U	2.8 U	*(see Cl pest.)*	2.8 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	**2.1**	*(see Cl pest.)*	1.4 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	1.4 U	1.4 U	2.7 U	6.8 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P31-SO-10	9 - 11'	1.6 U	1.6 U	3.3 U	8.2 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P31-SO-16	15 - 17'	1.7 U	1.7 U	3.4 U	8.6 U	1.7 U	1.7 U	*(see Cl pest.)*	1.7 U
ICS-P31-SO-32	31 - 33'	1.3 U	1.3 U	2.7 U	6.7 U	1.3 U	1.3 U	*(see Cl pest.)*	1.3 U
ICS-P32-SO-16	16 - 17.5'	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-SO-DUPL3	P32-SO-16	3.0 U	3.0 U	6.1 U	15 U	3.0 U	3.0 U	*(see Cl pest.)*	3.0 U
ICS-P32-SO-32	31 - 33'	1.6 U	1.6 U	3.3 U	8.2 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P33-SO-16	15 - 17'	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	1.4 U	*(see Cl pest.)*	1.4 U
ICS-P33-SO-32	31 - 33'	1.3 U	1.3 U	2.6 U	6.5 U	1.3 U	1.3 U	*(see Cl pest.)*	1.3 U
ICS-P34-SO-4	3 - 5'	1.8 U	1.8 U	3.7 U	9.2 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U
ICS-P34-SO-10	9 - 11'	2.1 U	2.1 U	4.2 U	10 U	2.1 U	2.1 U	*(see Cl pest.)*	2.1 U
ICS-P34-SO-16	15 - 17'	1.8 U	1.8 U	3.6 U	9.0 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U
ICS-P35-SO-4	3 - 5'	1.7 U	1.7 U	3.4 U	8.5 U	1.7 U	1.7 U	*(see Cl pest.)*	1.7 U
ICS-P35-SO-10	9 - 11'	1.8 U	1.8 U	3.6 U	8.9 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U
ICS-P35-SO-16	15 - 17'	1.5 U	1.5 U	3.0 U	7.5 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-P36-SO-4	3 - 4'	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-P36-SO-10	10 - 12'	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-P36-SO-16	15 - 17'	1.7 U	1.7 U	3.4 U	8.6 U	1.7 U	1.7 U	*(see Cl pest.)*	1.7 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Dibromo-methane µg/kg, dry	1,1,1,2-Tetra-chloroethane µg/kg, dry	1,2,3-Trichloro-propane µg/kg, dry	*trans*-1,4-Dichloro-2-butene µg/kg, dry	1,3,5-Trimethyl-benzene µg/kg, dry	1,2,4-Trimethyl-benzene µg/kg, dry	Hexachloro-butadiene µg/kg, dry	Ethylene dibromide µg/kg, dry
Screening Level (a)		-----	5050	4.4	-----	35,000	-----	1680	65.6
ICS-Ap-10-SO	9 - 10'	1.2 U	1.2 U	2.4 U	6.0 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U
ICS-Bp-10-SO	9 - 10'	1.2 U	1.2 U	2.5 U	6.2 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U
ICS-Cp-10-SO	9 - 10'	2.0 U	2.0 U	4.0 U	10 U	2.0 U	2.0 U	*(see Cl pest.)*	2.0 U
ICS-Du-10-SO	9 - 10'	1.6 U	1.6 U	3.1 U	7.8 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U
ICS-Du-16-SO	15 - 17'	1.1 U	1.1 U	2.3 U	5.7 U	1.1 U	1.1 U	*(see Cl pest.)*	1.1 U
ICS-FL-4-SO	3 - 5'	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-FL-7-SO	6 - 8'	1.8 U	1.8 U	3.6 U	9.1 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U
ICS-FL-10-SO	9 - 10'	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-FL-13-SO	12 - 14'	1.5 U	1.5 U	3.1 U	7.7 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U
ICS-FL-16-SO	15.5 - 17'	1.3 U	1.3 U	2.7 U	6.7 U	1.3 U	1.3 U	*(see Cl pest.)*	1.3 U
ICS-FL-21-SO	20 - 22'	1.2 U	1.2 U	2.4 U	6.0 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U
ICS-Ju-4-SO	3 - 4'	2.1 U	2.1 U	4.3 U	11 U	2.1 U	**5.8**	*(see Cl pest.)*	2.1 U
ICS-Ju-10-SO	10- 11'	2.4 U	2.4 U	4.7 U	12 U	2.4 U	**3.0**	*(see Cl pest.)*	2.4 U
ICS-Ju-15-SO	15 - 16	1.2 U	1.2 U	2.5 U	6.1 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U
Number of Samples		128	128	128	128	128	128	13	128
Number of Detections		0	0	0	0	24	40	0	0
Percent Detected		0.0%	0.0%	0.0%	0.0%	18.8%	31.3%	0.0%	0.0%
Highest Conc.		0	0	0	0	7500	24000	0	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Bromochloro-methane µg/kg, dry	2,2-Dichloro-propane µg/kg, dry	1,3-Dichloro-propane µg/kg, dry	Isopropyl-benzene µg/kg, dry	n-Propyl-benzene µg/kg, dry	Bromo-benzene µg/kg, dry	2-Chloro-toluene µg/kg, dry	4-Chloro-toluene µg/kg, dry	*tert* -Butyl-benzene µg/kg, dry	*sec* -Butyl-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	-----	350,000	-----	70000	70000	350,000	350,000
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP1-SO-B	6.5 - 8'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.7 J**	1.7 U	1.7 U	1.7 U
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP2-SO-B	5.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-B	6 - 8'	2500 U	2500 U	2500 U	**2000 J**	**4100**	2500 U	2500 U	2500 U	2500 U	**1500 J**
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-LP4-SO-B	10 - 12'	110 U	110 U	110 U	**110**	**310**	110 U	110 U	110 U	110 U	**58 J**
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-DOF-MW1-A	4 - 5'	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B	6.5 - 7.5'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW1-C	11 - 12'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A	2 - 3'	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B	8 - 9'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW2-C	12 - 13'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW3-A	2 - 4'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1	dup of MW3-A	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW4-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B	7 - 8'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW4-C	10 - 11'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-A	3 - 4'	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B	7 - 8'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW6-A	3 - 5'	280 U	280 U	280 U	**1300**	**2400**	280 U	280 U	280 U	280 U	**2100**
ICS-DOF-MW6-B	6 - 8'	270 U	270 U	270 U	**920**	**1600**	270 U	270 U	270 U	270 U	**1400**
ICS-DOF-DUP2	dup of MW6-B	270 U	270 U	270 U	**280**	**510**	270 U	270 U	270 U	270 U	**480**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Bromochloro-methane µg/kg, dry	2,2-Dichloro-propane µg/kg, dry	1,3-Dichloro-propane µg/kg, dry	Isopropyl-benzene µg/kg, dry	n-Propyl-benzene µg/kg, dry	Bromo-benzene µg/kg, dry	2-Chloro-toluene µg/kg, dry	4-Chloro-toluene µg/kg, dry	*tert* -Butyl-benzene µg/kg, dry	*sec* -Butyl-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	-----	350,000	-----	70000	70000	350,000	350,000
ICS-DOF-MW6-C	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-DOF-MW7-A	3 - 4'	91 U	91 U	91 U	91 U	91 U	91 U	91 U	91 U	91 U	91 U
ICS-DOF-MW7-B	7 - 8'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW7-C	11 - 12'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW8-A	3 - 4'	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW8-B	7 - 8'	1.3 U	1.3 U	1.3 U	**4.4**	**2.1**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW8-C	11 - 12'	1.2 U	1.2 U	1.2 U	**2.4**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	**1.6 J**	**3.2**	1.6 U	1.6 U	1.6 U	1.6 U	**1.0 J**
ICS-P11-SO-10	9.5 - 11'	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P11-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P12-SO-4	3 - 4.5'	1.6 U	1.6 U	1.6 U	**1.4 J**	**2.5**	1.6 U	1.6 U	1.6 U	1.6 U	**0.9 J**
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-13	12 - 14'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P13-SO-4	4 - 6'	1.4 U	1.4 U	1.4 U	1.4 U	**1.3 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P13-SO-17	16.5 - 18'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P14-SO-4	3 - 5'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**8.1**
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P15-SO-4	3 - 5'	1.5 U	1.5 U	1.5 U	**1.3 J**	**1.4 J**	1.5 U	1.5 U	1.5 U	1.5 U	**0.9 J**
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P15-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P16-SO-4	3 - 4'	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P16-SO-16	15 - 17'	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Bromochloro-methane µg/kg, dry	2,2-Dichloro-propane µg/kg, dry	1,3-Dichloro-propane µg/kg, dry	Isopropyl-benzene µg/kg, dry	n-Propyl-benzene µg/kg, dry	Bromo-benzene µg/kg, dry	2-Chloro-toluene µg/kg, dry	4-Chloro-toluene µg/kg, dry	*tert* -Butyl-benzene µg/kg, dry	*sec* -Butyl-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	-----	350,000	-----	70000	70000	350,000	350,000
ICS-P17-SO-4	4.5 - 6.5'	1.4 U	1.4 U	1.4 U	**110**	**95**	1.4 U	1.4 U	1.4 U	1.4 U	**83 J**
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	2.0 U	2.0 U	2.0 U	**1.8 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	2.5 U	2.5 U	2.5 U	**2.4 J**	**5.6**	2.5 U	2.5 U	2.5 U	2.5 U	**6.4**
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	1.5 U	1.5 U	1.5 U	**14**	**24**	1.5 U	1.5 U	1.5 U	1.5 U	**17**
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P19-SO-10	9 - 10'	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P20-SO-10	9.5 - 11'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P21-SO-7	6 - 8'	1.7 U	1.7 U	1.7 U	**3.8**	**1.7 J**	1.7 U	1.7 U	1.7 U	**1.1 J**	**2.6**
ICS-P21-SO-13	12 - 14'	2.2 U	2.2 U	2.2 U	**5.2**	**3.2**	2.2 U	**2.4**	2.2 U	2.2 U	2.2 U
ICS-P21-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	**3.1**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P22-SO-4	3 - 4.5'	2.4 U	2.4 U	2.4 U	**5.3**	**4.9**	2.4 U	2.4 U	2.4 U	2.4 U	**3.3**
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	1.3 U	1.3 U	1.3 U	**0.8 J**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Bromochloro-methane µg/kg, dry	2,2-Dichloro-propane µg/kg, dry	1,3-Dichloro-propane µg/kg, dry	Isopropyl-benzene µg/kg, dry	n-Propyl-benzene µg/kg, dry	Bromo-benzene µg/kg, dry	2-Chloro-toluene µg/kg, dry	4-Chloro-toluene µg/kg, dry	*tert* -Butyl-benzene µg/kg, dry	*sec* -Butyl-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	-----	350,000	-----	70000	70000	350,000	350,000
ICS-P22-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P23-SO-3	2 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P23-SO-10	9.5 - 11	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P24-SO-4	3 - 5'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P24-SO-10	9 - 10.5'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P25-SO-3	1 - 3'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P25-SO-10	9 - 11'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P26-SO-4	3 - 5'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P26-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P27-SO-3	1 - 3'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P27-SO-32	31 - 33'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P28-SO-4	3 - 5'	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P28-SO-10	8.5 - 10'	2.6 U	2.6 U	2.6 U	**17**	**28**	2.6 U	2.6 U	2.6 U	2.6 U	**15**
ICS-P28-SO-16	15 - 17'	1.1 U	1.1 U	1.1 U	**0.6 J**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P29-SO-4	3 - 4'	0.9 U	0.9 U	0.9 U	**16**	**34**	0.9 U	0.9 U	0.9 U	0.9 U	**21**
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	1.6 U	1.6 U	1.6 U	**13**	**31**	1.6 U	1.6 U	1.6 U	1.6 U	**10**
ICS-P29-SO-16	15 - 17'	1.6 U	1.6 U	1.6 U	**5.5**	**7.3**	1.6 U	1.6 U	1.6 U	1.6 U	**4.3**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Bromochloro-methane µg/kg, dry	2,2-Dichloro-propane µg/kg, dry	1,3-Dichloro-propane µg/kg, dry	Isopropyl-benzene µg/kg, dry	n-Propyl-benzene µg/kg, dry	Bromo-benzene µg/kg, dry	2-Chloro-toluene µg/kg, dry	4-Chloro-toluene µg/kg, dry	*tert* -Butyl-benzene µg/kg, dry	*sec* -Butyl-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	-----	350,000	-----	70000	70000	350,000	350,000
ICS-DUP2	P29-SO-16	2.1 U	2.1 U	2.1 U	**8.1**	**12**	2.1 U	2.1 U	2.1 U	2.1 U	**7.5**
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	1.0 U	1.0 U	1.0 U	**140**	**270**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	1.0 U	1.0 U	1.0 U	**0.9**	**0.8**	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**
ICS-P30-SO-16	15 - 16.5'	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P31-SO-10	9 - 11'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P31-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P31-SO-32	31 - 33'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P32-SO-16	16 - 17.5'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-SO-DUPL3	P32-SO-16	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
ICS-P32-SO-32	31 - 33'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P33-SO-16	15 - 17'	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P33-SO-32	31 - 33'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P34-SO-4	3 - 5'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P34-SO-10	9 - 11'	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
ICS-P34-SO-16	15 - 17'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-4	3 - 5'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P35-SO-10	9 - 11'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-16	15 - 17'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-4	3 - 4'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-10	10 - 12'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P36-SO-16	15 - 17'	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Bromochloro-methane µg/kg, dry	2,2-Dichloro-propane µg/kg, dry	1,3-Dichloro-propane µg/kg, dry	Isopropyl-benzene µg/kg, dry	n-Propyl-benzene µg/kg, dry	Bromo-benzene µg/kg, dry	2-Chloro-toluene µg/kg, dry	4-Chloro-toluene µg/kg, dry	*tert* -Butyl-benzene µg/kg, dry	*sec* -Butyl-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	-----	350,000	-----	70000	70000	350,000	350,000
ICS-Ap-10-SO	9 - 10'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Bp-10-SO	9 - 10'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Cp-10-SO	9 - 10'	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-Du-10-SO	9 - 10'	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-Du-16-SO	15 - 17'	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-FL-4-SO	3 - 5'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-7-SO	6 - 8'	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-FL-10-SO	9 - 10'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-13-SO	12 - 14'	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-FL-16-SO	15.5 - 17'	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-FL-21-SO	20 - 22'	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Ju-4-SO	3 - 4'	2.1 U	2.1 U	2.1 U	**2.3**	**1.7 J**	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
ICS-Ju-10-SO	10- 11'	2.4 U	2.4 U	2.4 U	2.4 U	**2.2 J**	2.4 U	2.4 U	2.4 U	2.4 U	**3.1**
ICS-Ju-15-SO	15 - 16	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Number of Samples		128	128	128	128	128	128	128	128	128	128
Number of Detections		0	0	0	28	25	0	2	0	1	21
Percent Detected		0.0%	0.0%	0.0%	21.9%	19.5%	0.0%	1.6%	0.0%	0.8%	16.4%
Highest Conc.		0	0	0	2000	4100	0	2.4	0	1.1	2100

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	4-Isopropyl-toluene µg/kg, dry	n-Butyl-benzene µg/kg, dry	1,2,3-Trichloro-benzene µg/kg, dry	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	1,050,000	17,500	-----	24,300	350,000	315,000
ICS-LP1-SO-A	3 - 5'	-----	-----	-----	18 U	18 U	4.4 U	4.4 U	18 U	4.4 U
ICS-LP1-SO-B	6.5 - 8'	1.7 U	1.7 U	-----	**72**	63 U	*see VOA's*	**11 J**	63 U	*see VOA's*
ICS-LP1-SO-C	10.5 - 12'	-----	-----	-----	**9.5 JB**	19 U	4.7 U	4.7 U	**12 J**	4.7 U
ICS-LP2-SO-A	3 - 5'	-----	-----	-----	18 U	18 U	4.6 U	4.6 U	18 U	4.6 U
ICS-LP2-SO-B	5.5 - 7.5'	1.2 U	1.2 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	**9.0 J**	*see VOA's*
ICS-LP2-SO-C	8 - 10'	-----	-----	-----	19 U	19 U	4.8 U	4.8 U	**19**	4.8 U
ICS-LP3-SO-A	3 - 5'	-----	-----	-----	**31**	19 U	4.7 U	4.7 U	19 U	**3.4 J**
ICS-LP3-SO-B	6 - 8'	**2300 J**	**2600**	-----	**2800**	670 U	**77 J**	**470**	340 U	**1800**
ICS-LP3-SO-C	10 - 12'	-----	-----	-----	**38**	18 U	**7.5**	**21**	18 U	**37**
ICS-LP3-SO-D	15 - 16'	-----	-----	-----	**36**	19 U	4.8 U	**4.5 J**	19 U	**14**
ICS-LP4-SO-A	8 - 10'	-----	-----	-----	**74**	57 U	**11 J**	**11 J**	57 U	**45**
ICS-LP4-SO-B	10 - 12'	**150**	**110**	-----	**250**	19 U	**2.7 J**	*see VOA's*	19 U	*see VOA's*
ICS-LP4-SO-C	14 - 15'	-----	-----	-----	18 U	18 U	4.5 U	4.5 U	18 U	**2.6 J**
ICS-DOF-MW1-A	4 - 5'	1.0 U	1.0 U	-----	20 U	20 U	*see VOA's*	*see VOA's*	20 U	*see VOA's*
ICS-DOF-MW1-B	6.5 - 7.5'	1.2 U	1.2 U	-----	**14 JB**	19 U	*see VOA's*	*see VOA's*	19 U	*see VOA's*
ICS-DOF-MW1-C	11 - 12'	1.3 U	1.3 U	-----	**12 JB**	19 U	*see VOA's*	*see VOA's*	**25**	**4.2 J**
ICS-DOF-MW2-A	2 - 3'	0.9 U	0.9 U	-----	18 U	18 U	*see VOA's*	*see VOA's*	18 U	*see VOA's*
ICS-DOF-MW2-B	8 - 9'	1.1 U	1.1 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	19 U	*see VOA's*
ICS-DOF-MW2-C	12 - 13'	1.3 U	1.3 U	-----	20 U	20 U	*see VOA's*	*see VOA's*	20 U	*see VOA's*
ICS-DOF-MW3-A	2 - 4'	1.1 U	1.1 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	19 U	*see VOA's*
ICS-DOF-DUP1	dup of MW3-A	1.1 U	1.1 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	19 U	*see VOA's*
ICS-DOF-MW3-B	7 - 8'	1.1 U	1.1 U	-----	20 U	20 U	*see VOA's*	*see VOA's*	20 U	*see VOA's*
ICS-DOF-MW4-A	3 - 4'	1.0 U	1.0 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	19 U	*see VOA's*
ICS-DOF-MW4-B	7 - 8'	1.3 U	1.3 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	**9.1 J**	*see VOA's*
ICS-DOF-MW4-C	10 - 11'	1.1 U	1.1 U	-----	**14 J**	20 U	*see VOA's*	*see VOA's*	**42**	*see VOA's*
ICS-DOF-MW5-A	3 - 4'	0.9 U	0.9 U	-----	18 U	18 U	*see VOA's*	*see VOA's*	18 U	*see VOA's*
ICS-DOF-MW5-B	7 - 8'	1.1 U	1.1 U	-----	20 U	20 U	*see VOA's*	*see VOA's*	**17 J**	*see VOA's*
ICS-DOF-MW6-A	3 - 5'	**4000**	**4400**	-----	100 U	100 U	*see VOA's*	*see VOA's*	100 U	*see VOA's*
ICS-DOF-MW6-B	6 - 8'	**2600**	**2900**	-----	44 U	44 U	*see VOA's*	*see VOA's*	44 U	*see VOA's*
ICS-DOF-DUP2	dup of MW6-B	**890**	**1000**	-----	61 U	61 U	*see VOA's*	*see VOA's*	61 U	*see VOA's*

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Isopropyl-toluene µg/kg, dry	n-Butyl-benzene µg/kg, dry	1,2,3-Trichloro-benzene µg/kg, dry	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	1,050,000	17,500	-----	24,300	350,000	315,000
ICS-DOF-MW6-C	9 - 10'	1.6 U	1.6 U	-----	**650**	19 U	**26**	**120**	19 U	**7.2**
ICS-DOF-MW7-A	3 - 4'	91 U	91 U	-----	**260**	19 U	19 U	19 U	19 U	**17 J**
ICS-DOF-MW7-B	7 - 8'	1.2 U	1.2 U	-----	19 U	19 U	**2.8 J**	**4.7 J**	19 U	**6.8**
ICS-DOF-MW7-C	11 - 12'	1.3 U	1.3 U	-----	**9.4 J**	19 U	*see VOA's*	*see VOA's*	**15 J**	*see VOA's*
ICS-DOF-MW8-A	3 - 4'	1.0 U	1.0 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	19 U	*see VOA's*
ICS-DOF-MW8-B	7 - 8'	**9.0**	1.3 U	-----	19 U	19 U	*see VOA's*	*see VOA's*	19 U	*see VOA's*
ICS-DOF-MW8-C	11 - 12'	1.2 U	1.2 U	-----	20 U	20 U	*see VOA's*	*see VOA's*	**14 J**	*see VOA's*
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	**0.9 J**	**0.8 J**	8.1 U	19 U	19 U	**6.2**	**7.4**	19 U	**8.1**
ICS-P11-SO-10	9.5 - 11'	1.9 U	1.9 U	9.7 U	**180**	19 U	**4.2 J**	**4.2 J**	19 U	**4.2 J**
ICS-P11-SO-16	15 - 17'	1.2 U	1.2 U	5.9 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-P12-SO-4	3 - 4.5'	**2.3**	1.6 U	7.9 U	20 U	20 U	4.9 U	4.9 U	20 U	**2.9 J**
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	1.8 U	1.8 U	8.9 U	**23**	19 U	**2.9 J**	**3.0 J**	19 U	**3.3 J**
ICS-P12-SO-13	12 - 14'	1.8 U	1.8 U	8.8 U	20 U	20 U	4.9 U	4.9 U	20 U	4.9 U
ICS-P12-SO-16	15 - 17'	1.6 U	1.6 U	7.9 U	19 U	19 U	4.7 U	4.7 U	19 U	**2.3 J**
ICS-P13-SO-4	4 - 6'	1.4 U	1.4 U	7.0 U	**620**	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	1.5 U	1.5 U	7.4 U	**9.8 J**	20 U	4.9 U	4.9 U	20 U	4.9 U
ICS-P13-SO-17	16.5 - 18'	1.5 U	1.5 U	7.3 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P14-SO-4	3 - 5'	1.4 U	**2**	7.0 U	**25 JQ**	19 U	**7.5**	**11**	19 U	**16**
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	1.4 U	1.4 U	7.2 U	**28 JQ**	19 U	**4.4 J**	**5.1**	19 U	**5**
ICS-P14-SO-16	15 - 17'	1.4 U	1.4 U	7.1 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-P15-SO-4	3 - 5'	**2.1**	1.5 U	7.6 U	**21 JQ**	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	1.8 U	1.8 U	8.9 U	**1200**	20 U	4.9 U	**6.3**	20 U	**3.2 J**
ICS-P15-SO-16	15 - 17'	1.6 U	1.6 U	8.1 U	**14 J**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P16-SO-4	3 - 4'	0.8 U	0.8 U	4.1 U	**120 JB**	20 U	4.9 U	**70**	20 U	4.9 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	2.0 U	2.0 U	10 U	**85 JB**	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-P16-SO-16	15 - 17'	2.3 U	2.3 U	11 U	**94 JB**	20 U	4.9 U	4.9 U	**15 J**	4.9 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Isopropyl-toluene µg/kg, dry	n-Butyl-benzene µg/kg, dry	1,2,3-Trichloro-benzene µg/kg, dry	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	1,050,000	17,500	-----	24,300	350,000	315,000
ICS-P17-SO-4	4.5 - 6.5'	**48 J**	**130**	**2300**	**27**	19 U	**240**	**370**	19 U	**18**
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	2.0 U	2.0 U	10 U	**110**	19 U	**110**	**320**	19 U	**14**
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	1.4 U	1.4 U	7.2 U	**10 J**	19 U	**2.4 J**	**3.2 J**	19 U	4.7 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	**4**	**8.8**	12 U	200 U	200 U	4.9 U	**3.6 J**	20 U	**21**
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	**29**	**23**	7.4 U	**46**	39 U	4.8 U	4.8 U	19 U	**74**
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	1.4 U	1.4 U	7.1 U	**110**	84 U	**19 J**	**32**	84 U	**110**
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	1.4 U	1.4 U	7.1 U	**15 J**	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	**1.1 J**	1.8 U	9.1 U	**22**	22 U	5.4 U	**2.7 J**	22 U	**3.8 J**
ICS-P19-SO-10	9 - 10'	1.9 U	1.9 U	9.5 U	**20**	19 U	**3.6 J**	**9.1**	19 U	**5.5**
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	1.6 U	1.6 U	7.9 U	**20**	20 U	**3.2 J**	**8.9**	20 U	4.9 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	1.5 U	1.5 U	7.6 U	19 U	19 U	4.8 U	**2.6 J**	19 U	4.8 U
ICS-P20-SO-10	9.5 - 11'	1.3 U	1.3 U	6.6 U	**9.7 J**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	1.5 U	1.5 U	7.7 U	**10 J**	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-P21-SO-7	6 - 8'	1.7 U	1.7 U	8.6 U	**150 JB**	37 U	**9.4**	**8.2**	18 U	**29**
ICS-P21-SO-13	12 - 14'	**10**	2.2 U	11 U	**210 JB**	34 U	**6.4 J**	**6.9 J**	34 U	**22**
ICS-P21-SO-16	15 - 17'	1.4 U	1.4 U	7.2 U	**88 JB**	19 U	4.8 U	4.8 U	19 U	**3.7 J**
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	1.2 U	1.2 U	5.9 U	**83 JB**	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-P22-SO-4	3 - 4.5'	**3.7**	**2.2 J**	12 U	**10 J**	19 U	4.7 U	4.7 U	19 U	**8.5**
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	1.3 U	1.3 U	6.5 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Isopropyl-toluene µg/kg, dry	n-Butyl-benzene µg/kg, dry	1,2,3-Trichloro-benzene µg/kg, dry	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	1,050,000	17,500	-----	24,300	350,000	315,000
ICS-P22-SO-16	15 - 17'	1.5 U	1.5 U	7.6 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P23-SO-3	2 - 4'	1.4 U	1.4 U	7.2 U	19 U	19 U	4.9 U	4.9 U	19 U	4.9 U
ICS-P23-SO-10	9.5 - 11	0.7 U	0.7 U	3.6 U	**13 J**	19 U	4.8 U	**110**	19 U	4.8 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	1.3 U	1.3 U	6.6 U	**20**	20 U	5.0 U	5.0 U	**13 J**	5.0 U
ICS-P24-SO-4	3 - 5'	1.6 U	1.6 U	7.9 U	18 U	18 U	4.6 U	4.6 U	18 U	4.6 U
ICS-P24-SO-10	9 - 10.5'	1.5 U	1.5 U	7.6 U	**19**	19 U	4.8 U	4.8 U	19 U	**19**
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	1.2 U	1.2 U	5.8 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P25-SO-3	1 - 3'	1.5 U	1.5 U	7.3 U	**13 J**	19 U	**13**	**45**	19 U	4.8 U
ICS-P25-SO-10	9 - 11'	1.4 U	1.4 U	7.2 U	19 U	19 U	**20**	**44**	19 U	**3.7 J**
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	1.5 U	1.5 U	7.5 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-P26-SO-4	3 - 5'	1.3 U	1.3 U	6.4 U	**24**	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	1.6 U	1.6 U	8.2 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-P26-SO-16	15 - 17'	1.4 U	1.4 U	7.1 U	20 U	20 U	4.9 U	4.9 U	**15 J**	4.9 U
ICS-P27-SO-3	1 - 3'	1.5 U	1.5 U	7.4 U	**16 J**	19 U	4.8 U	**2.7 J**	19 U	4.8 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	1.6 U	1.6 U	7.8 U	**24**	19 U	4.8 U	4.8 U	**22**	4.8 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	1.2 U	1.2 U	6.0 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P27-SO-32	31 - 33'	1.2 U	1.2 U	6.2 U	**9.3 J**	19 U	4.6 U	4.6 U	19 U	4.6 U
ICS-P28-SO-4	3 - 5'	1.9 U	1.9 U	9.5 U	**12 J**	20 U	**34**	**97**	20 U	**23**
ICS-P28-SO-10	8.5 - 10'	**27**	**19**	13 U	**390**	20 U	**6.7**	**22**	20 U	4.9 U
ICS-P28-SO-16	15 - 17'	1.1 U	1.1 U	5.7 U	**13 J**	18 U	4.6 U	4.6 U	18 U	4.6 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	1.6 U	1.6 U	8.1 U	**9.3 J**	19 U	4.6 U	4.6 U	19 U	4.6 U
ICS-P29-SO-4	3 - 4'	**27**	0.9 U	4.6 U	**1600 JB**	230 U	**100**	**520**	230 U	**360**
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	**17**	**16**	**12**	**140 JB**	19 U	**6**	**7.6**	19 U	**20**
ICS-P29-SO-16	15 - 17'	**8.1**	**7.3**	8.1 U	**110 JB**	19 U	4.7 U	4.7 U	19 U	**5.6**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	4-Isopropyl-toluene µg/kg, dry	n-Butyl-benzene µg/kg, dry	1,2,3-Trichloro-benzene µg/kg, dry	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	1,050,000	17,500	-----	24,300	350,000	315,000
ICS-DUP2	P29-SO-16	**15**	**13**	10 U	**98 JB**	19 U	4.7 U	4.7 U	19 U	**5.3**
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	1.6 U	1.6 U	8.0 U	**100 JB**	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	**100**	**150**	5.0 U	**120**	44 U	**5.3**	**7.9**	22 U	**31**
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	**0.7**	1.0 U	5.0 U	**110**	20 U	**4.8**	**4.4**	20 U	**14**
ICS-P30-SO-16	15 - 16.5'	2.8 U	2.8 U	14 U	**61**	20 U	4.9 U	4.9 U	20 U	4.9 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	1.4 U	1.4 U	7.2 U	**71**	18 U	4.6 U	4.6 U	18 U	4.6 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	1.4 U	1.4 U	6.8 U	**59 JB**	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-P31-SO-10	9 - 11'	1.6 U	1.6 U	8.2 U	**51 JB**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P31-SO-16	15 - 17'	1.7 U	1.7 U	8.6 U	**69 JB**	20 U	4.9 U	4.9 U	**39**	4.9 U
ICS-P31-SO-32	31 - 33'	1.3 U	1.3 U	6.7 U	**77 JB**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P32-SO-16	16 - 17.5'	1.6 U	1.6 U	7.9 U	**8.6 J**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-SO-DUPL3	P32-SO-16	3.0 U	3.0 U	15 U	**10 J**	18 U	4.6 U	4.6 U	18 U	4.6 U
ICS-P32-SO-32	31 - 33'	1.6 U	1.6 U	8.2 U	**8.7 J**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P33-SO-16	15 - 17'	1.4 U	1.4 U	7.1 U	**88 JB**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P33-SO-32	31 - 33'	1.3 U	1.3 U	6.5 U	**86 JB**	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-P34-SO-4	3 - 5'	1.8 U	1.8 U	9.2 U	19 U	19 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P34-SO-10	9 - 11'	2.1 U	2.1 U	10 U	**20**	20 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P34-SO-16	15 - 17'	1.8 U	1.8 U	9.0 U	**14 J**	19 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P35-SO-4	3 - 5'	1.7 U	1.7 U	8.5 U	**17 J**	19 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P35-SO-10	9 - 11'	1.8 U	1.8 U	8.9 U	**14 J**	19 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P35-SO-16	15 - 17'	1.5 U	1.5 U	7.5 U	**18 J**	20 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P36-SO-4	3 - 4'	1.5 U	1.5 U	7.4 U	**14 J**	19 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P36-SO-10	10 - 12'	1.6 U	1.6 U	7.9 U	**25**	19 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*
ICS-P36-SO-16	15 - 17'	1.7 U	1.7 U	8.6 U	**11 J**	19 U	*(see VOCst.)*	*(see VOCst.)*	R	*(see VOCst.)*

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4-Isopropyl-toluene µg/kg, dry	n-Butyl-benzene µg/kg, dry	1,2,3-Trichloro-benzene µg/kg, dry	Phenol µg/kg, dry	2-Chloro-phenol µg/kg, dry	1,3-Dichloro-benzene µg/kg, dry	1,4-Dichloro-benzene µg/kg, dry	Benzyl alcohol µg/kg, dry	1,2-Dichloro-benzene µg/kg, dry
Screening Level (a)		-----	-----	-----	1,050,000	17,500	-----	24,300	350,000	315,000
ICS-Ap-10-SO	9 - 10'	1.2 U	1.2 U	6.0 U	**13 J**	19 U	**8.3**	**26**	19 U	**3.8 J**
ICS-Bp-10-SO	9 - 10'	1.2 U	1.2 U	6.2 U	**12 J**	20 U	4.9 U	4.9 U	20 U	4.9 U
ICS-Cp-10-SO	9 - 10'	2.0 U	2.0 U	10 U	**38**	19 U	4.8 U	4.8 U	**66**	4.8 U
ICS-Du-10-SO	9 - 10'	1.6 U	1.6 U	7.8 U	**16 J**	19 U	**4.0 J**	**11**	19 U	4.7 U
ICS-Du-16-SO	15 - 17'	1.1 U	1.1 U	5.7 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-FL-4-SO	3 - 5'	1.5 U	1.5 U	7.4 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U
ICS-FL-7-SO	6 - 8'	1.8 U	1.8 U	9.1 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-FL-10-SO	9 - 10'	1.5 U	1.5 U	7.6 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-FL-13-SO	12 - 14'	1.5 U	1.5 U	7.7 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U
ICS-FL-16-SO	15.5 - 17'	1.3 U	1.3 U	6.7 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U
ICS-FL-21-SO	20 - 22'	1.2 U	1.2 U	6.0 U	20 U	20 U	4.9 U	4.9 U	R	4.9 U
ICS-Ju-4-SO	3 - 4'	**4.4**	2.1 U	11 U	**1500**	120 U	**32**	**150**	120 U	**950**
ICS-Ju-10-SO	10- 11'	**1.5 J**	**2.9**	12 U	**28**	20 U	**2.9 J**	**5.8 J**	20 U	**5.8 J**
ICS-Ju-15-SO	15 - 16	1.2 U	1.2 U	6.1 U	**8.7 J**	19 U	4.8 U	**4.8 J**	19 U	**2.9 J**
Number of Samples		128	128	128	137	137	118	118	137	118
Number of Detections		24	17	2	87	0	31	40	15	42
Percent Detected		18.8%	13.3%	1.6%	63.5%	0.0%	26.3%	33.9%	10.9%	35.6%
Highest Conc.		4000	4400	2300	2800	0	240	520	66	1800

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitrosodi-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry
Screening Level (a)		-----	-----	18.8	2450	7000	138,000	70,000	14,000,000
ICS-LP1-SO-A	3 - 5'	4.4 U	35 U	18 U	18 U	18 U	18 U	**8.7 J**	350 U
ICS-LP1-SO-B	6.5 - 8'	**9.1 J**	**120 J**	63 U	63 U	63 U	63 U	**15 J**	1300 U
ICS-LP1-SO-C	10.5 - 12'	4.7 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-LP2-SO-A	3 - 5'	4.6 U	37 U	18 U	18 U	18 U	18 U	18 U	370 U
ICS-LP2-SO-B	5.5 - 7.5'	4.7 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-LP2-SO-C	8 - 10'	4.8 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-LP3-SO-A	3 - 5'	**7.5**	**12 J**	19 U	19 U	19 U	19 U	**3.4 J**	370 U
ICS-LP3-SO-B	6 - 8'	**3200**	**4900**	670 U	670 U	670 U	670 U	**2000**	13,000 U
ICS-LP3-SO-C	10 - 12'	**28**	**68**	18 U	18 U	18 U	18 U	**120**	370 U
ICS-LP3-SO-D	15 - 16'	**21**	**40**	19 U	19 U	19 U	19 U	**34**	190 U
ICS-LP4-SO-A	8 - 10'	**33**	**54 J**	57 U	57 U	57 U	57 U	**18 J**	1100 U
ICS-LP4-SO-B	10 - 12'	**81**	**700**	19 U	19 U	19 U	19 U	**2600**	380 U
ICS-LP4-SO-C	14 - 15'	4.5 U	36 U	18 U	18 U	18 U	18 U	**18 J**	360 U
ICS-DOF-MW1-A	4 - 5'	4.9 U	39 U	20 U	20 U	20 U	20 U	20 U	390 U
ICS-DOF-MW1-B	6.5 - 7.5'	4.7 U	**9.4 J**	19 U	19 U	19 U	19 U	19 U	380 U
ICS-DOF-MW1-C	11 - 12'	4.6 U	37 U	19 U	19 U	19 U	19 U	19 U	370 U
ICS-DOF-MW2-A	2 - 3'	4.6 U	37 U	18 U	18 U	18 U	18 U	18 U	370 U
ICS-DOF-MW2-B	8 - 9'	4.8 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-DOF-MW2-C	12 - 13'	4.9 U	39 U	20 U	20 U	20 U	20 U	20 U	390 U
ICS-DOF-MW3-A	2 - 4'	4.8 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-DOF-DUP1	dup of MW3-A	4.7 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-DOF-MW3-B	7 - 8'	5.0 U	40 U	20 U	20 U	20 U	20 U	20 U	400 U
ICS-DOF-MW4-A	3 - 4'	4.8 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-DOF-MW4-B	7 - 8'	4.7 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U
ICS-DOF-MW4-C	10 - 11'	5.0 U	**14 J**	20 U	20 U	20 U	20 U	20 U	**120 J**
ICS-DOF-MW5-A	3 - 4'	4.5 U	36 U	18 U	18 U	18 U	18 U	18 U	360 U
ICS-DOF-MW5-B	7 - 8'	5.0 U	**14 J**	20 U	20 U	20 U	20 U	20 U	400 U
ICS-DOF-MW6-A	3 - 5'	**45**	210 U	100 U	100 U	100 U	100 U	210 U	2100 U
ICS-DOF-MW6-B	6 - 8'	**17**	89 U	44 U	44 U	44 U	44 U	89 U	890 U
ICS-DOF-DUP2	dup of MW6-B	**27**	120 U	61 U	61 U	61 U	61 U	120 U	1200 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitrosodi-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry
Screening Level (a)		-----	-----	18.8	2450	7000	138,000	70,000	14,000,000
ICS-DOF-MW6-C	9 - 10'	**8.8**	**42**	19 U	19 U	19 U	19 U	**350**	370 U
ICS-DOF-MW7-A	3 - 4'	**36**	**520**	19 U	19 U	19 U	19 U	**200**	370 U
ICS-DOF-MW7-B	7 - 8'	**7.6**	**80**	19 U	19 U	19 U	19 U	**26**	380 U
ICS-DOF-MW7-C	11 - 12'	**12**	**58**	19 U	19 U	19 U	19 U	**33**	380 U
ICS-DOF-MW8-A	3 - 4'	**4.2 J**	**31 J**	19 U	19 U	19 U	19 U	**3.4 J**	380 U
ICS-DOF-MW8-B	7 - 8'	4.8 U	38 U	19 U	19 U	19 U	19 U	**14 J**	380 U
ICS-DOF-MW8-C	11 - 12'	4.9 U	**11 J**	20 U	20 U	20 U	20 U	**4.7 J**	390 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	**6**	19 U	19 U	19 U	19 U	19 U	**12 J**	190 U
ICS-P11-SO-10	9.5 - 11'	**16**	**33**	19 U	19 U	19 U	19 U	**20 J**	**1400**
ICS-P11-SO-16	15 - 17'	5.0 U	20 U	20 U	20 U	20 U	20 U	25 U	200 U
ICS-P12-SO-4	3 - 4.5'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	200 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	**4.1 J**	19 U	19 U	19 U	19 U	19 U	**9.7 J**	**160 J**
ICS-P12-SO-13	12 - 14'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	**60 J**
ICS-P12-SO-16	15 - 17'	**3.2 J**	19 U	19 U	19 U	19 U	19 U	23 U	**88 J**
ICS-P13-SO-4	4 - 6'	5.0 U	20 U	20 U	20 U	20 U	**96**	25 U	**120 J**
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	4.9 U	20 U	20 U	20 U	20 U	20 U	25 U	200 U
ICS-P13-SO-17	16.5 - 18'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P14-SO-4	3 - 5'	**29**	**62**	19 U	19 U	19 U	19 U	**26**	**92 J**
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	**8.1**	**170**	19 U	19 U	19 U	**10 J**	**24**	**120 J**
ICS-P14-SO-16	15 - 17'	**5.1**	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P15-SO-4	3 - 5'	37	46	20 U	20 U	20 U	20 U	**44**	200 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	**2100**	**4300**	20 U	20 U	20 U	20 U	**3300 JQ**	**1200**
ICS-P15-SO-16	15 - 17'	11	30	19 U	19 U	19 U	19 U	**17 J**	190 U
ICS-P16-SO-4	3 - 4'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	200 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	5.0 U	20 U	20 U	20 U	20 U	20 U	25 U	**65 J**
ICS-P16-SO-16	15 - 17'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	**67 J**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitrosodi-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry
Screening Level (a)		-----	-----	18.8	2450	7000	138,000	70,000	14,000,000
ICS-P17-SO-4	4.5 - 6.5'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	190 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	**4.5 J**	**48**	19 U	19 U	19 U	19 U	**970**	**350**
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	4.7 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	**4.8 J**	200 U	200 U	200 U	200 U	200 U	**21 J**	2000 U
ICS-P18-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	**10**	**100**	39 U	39 U	39 U	39 U	**280**	390 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	21 U	**84**	84 U	84 U	84 U	84 U	**660**	840 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	4.7 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	5.4 U	**16 J**	22 U	22 U	22 U	22 U	27 U	220 U
ICS-P19-SO-10	9 - 10'	4.7 U	19 U	19 U	19 U	19 U	19 U	**28 J**	190 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	4.9 U	20 U	20 U	20 U	20 U	20 U	**16 J**	**62 J**
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P20-SO-10	9.5 - 11'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	**2.8 J**	19 U	19 U	19 U	19 U	19 U	24 U	**65 J**
ICS-P21-SO-7	6 - 8'	**10 JQ**	**70**	37 U	37 U	37 U	37 U	**31**	370 U
ICS-P21-SO-13	12 - 14'	**38**	**160**	34 U	34 U	34 U	34 U	**5400 JQ**	**230 J**
ICS-P21-SO-16	15 - 17'	4.8 U	**18 J**	19 U	19 U	19 U	19 U	**94**	190 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	190 U
ICS-P22-SO-4	3 - 4.5'	**3.3 J**	**15 J**	19 U	19 U	19 U	19 U	**9.7 J**	190 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	4.8 U	19 U	19 U	19 U	19 U	19 U	**26 J**	**80 J**
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitrosodi-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry
Screening Level (a)		-----	-----	18.8	2450	7000	138,000	70,000	14,000,000
ICS-P22-SO-16	15 - 17'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	**82 J**
ICS-P23-SO-3	2 - 4'	4.9 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P23-SO-10	9.5 - 11	4.8 U	19 U	19 U	19 U	19 U	19 U	**13 J**	190 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	5.0 U	20 U	20 U	20 U	20 U	20 U	25 U	**76 J**
ICS-P24-SO-4	3 - 5'	4.6 U	18 U	18 U	18 U	18 U	18 U	23 U	180 U
ICS-P24-SO-10	9 - 10.5'	**4.0 J**	**38**	19 U	19 U	19 U	19 U	**260**	**68 J**
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P25-SO-3	1 - 3'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	**59 J**
ICS-P25-SO-10	9 - 11'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	190 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	190 U
ICS-P26-SO-4	3 - 5'	4.7 U	19 U	19 U	19 U	19 U	19 U	24 U	**120 J**
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	5.0 U	20 U	20 U	20 U	20 U	20 U	25 U	200 U
ICS-P26-SO-16	15 - 17'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	200 U
ICS-P27-SO-3	1 - 3'	**2.8 J**	19 U	19 U	19 U	19 U	19 U	24 U	**130 J**
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	**3.4 J**	19 U	19 U	19 U	19 U	19 U	24 U	**170 J**
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P27-SO-32	31 - 33'	4.6 U	19 U	19 U	19 U	19 U	19 U	23 U	190 U
ICS-P28-SO-4	3 - 5'	**2.7 J**	20 U	20 U	20 U	20 U	20 U	**27 J**	**78 J**
ICS-P28-SO-10	8.5 - 10'	**14**	**72**	20 U	20 U	20 U	20 U	**200**	200 U
ICS-P28-SO-16	15 - 17'	4.6 U	18 U	18 U	18 U	18 U	18 U	23 U	180 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	4.6 U	19 U	19 U	19 U	19 U	19 U	23 U	190 U
ICS-P29-SO-4	3 - 4'	**150**	**200 J**	230 U	230 U	230 U	230 U	290 U	2300 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	**25**	**44**	19 U	19 U	19 U	19 U	**32**	190 U
ICS-P29-SO-16	15 - 17'	**12**	**29**	19 U	19 U	19 U	19 U	**27**	190 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitrosodi-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry
Screening Level (a)		-----	-----	18.8	2450	7000	138,000	70,000	14,000,000
ICS-DUP2	P29-SO-16	**9.9**	**25**	19 U	19 U	19 U	19 U	**22 J**	190 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	5.0 U	20 U	20 U	20 U	20 U	20 U	25 U	200 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	**8.8**	44 U	44 U	44 U	44 U	44 U	**22**	440 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	**7**	**28**	20 U	20 U	20 U	20 U	**20**	200 U
ICS-P30-SO-16	15 - 16.5'	**4.3**	20 U	20 U	20 U	20 U	20 U	**12**	200 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	4.6 U	18 U	18 U	18 U	18 U	18 U	23 U	180 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	**62 J**
ICS-P31-SO-10	9 - 11'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	**67 J**
ICS-P31-SO-16	15 - 17'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	**120 J**
ICS-P31-SO-32	31 - 33'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P32-SO-16	16 - 17.5'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-SO-DUPL3	P32-SO-16	4.6 U	18 U	18 U	18 U	18 U	18 U	23 U	180 U
ICS-P32-SO-32	31 - 33'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P33-SO-16	15 - 17'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	**74 J**
ICS-P33-SO-32	31 - 33'	4.8 U	19 U	19 U	19 U	19 U	19 U	**9.8 J**	190 U
ICS-P34-SO-4	3 - 5'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P34-SO-10	9 - 11'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	**130 J**
ICS-P34-SO-16	15 - 17'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	**83 J**
ICS-P35-SO-4	3 - 5'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-P35-SO-10	9 - 11'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	**88 J**
ICS-P35-SO-16	15 - 17'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	**90 J**
ICS-P36-SO-4	3 - 4'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	**69 J**
ICS-P36-SO-10	10 - 12'	4.7 U	19 U	19 U	19 U	19 U	19 U	24 U	**180 J**
ICS-P36-SO-16	15 - 17'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	**66 J**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2-Methyl-phenol µg/kg, dry	4-Methyl-phenol µg/kg, dry	N-Nitrosodi-n-propylamine µg/kg, dry	Hexachloro-ethane µg/kg, dry	Nitrobenzene µg/kg, dry	Isophorone µg/kg, dry	2,4-Dimethyl-phenol µg/kg, dry	Benzoic acid µg/kg, dry
Screening Level (a)		-----	-----	18.8	2450	7000	138,000	70,000	14,000,000
ICS-Ap-10-SO	9 - 10'	**3.1 J**	19 U	19 U	19 U	19 U	19 U	23 U	**220**
ICS-Bp-10-SO	9 - 10'	4.9 U	20 U	20 U	20 U	20 U	20 U	24 U	200 U
ICS-Cp-10-SO	9 - 10'	**4.8**	**32**	19 U	19 U	19 U	19 U	24 U	**390**
ICS-Du-10-SO	9 - 10'	4.7 U	19 U	19 U	19 U	19 U	19 U	**11 J**	**99 J**
ICS-Du-16-SO	15 - 17'	4.7 U	19 U	19 U	19 U	19 U	19 U	23 U	190 U
ICS-FL-4-SO	3 - 5'	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-FL-7-SO	6 - 8'	4.7 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-FL-10-SO	9 - 10'	5.0 U	20 U	20 U	20 U	20 U	20 U	25 U	200 U
ICS-FL-13-SO	12 - 14'	5.0 U	20 U	20 U	20 U	20 U	20 U	25 U	200 U
ICS-FL-16-SO	15.5 - 17'	4.7 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
ICS-FL-21-SO	20 - 22'	4.9 U	20 U	20 U	20 U	20 U	20 U	25 U	200 U
ICS-Ju-4-SO	3 - 4'	**1000**	**7700**	120 U	120 U	120 U	120 U	**830**	1200 U
ICS-Ju-10-SO	10- 11'	4.9 U	**67**	20 U	20 U	20 U	20 U	24 U	**140 J**
ICS-Ju-15-SO	15 - 16	4.8 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U
Number of Samples		137	137	137	137	137	137	137	137
Number of Detections		47	40	0	0	0	2	48	39
Percent Detected		34.3%	29.2%	0.0%	0.0%	0.0%	1.5%	35.0%	28.5%
Highest Conc.		3200	7700	0	0	0	96	5400	1400

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry
Screening Level (a)		10,500	4530	70,000	-----	14,000	3,500	350,000	-----
ICS-LP1-SO-A	3 - 5'	180 U	4.4 U	**45**	87 U	**31**	87 U	87 U	18 U
ICS-LP1-SO-B	6.5 - 8'	630 U	**10 J**	**91**	320 U	**66**	320 U	320 U	63 U
ICS-LP1-SO-C	10.5 - 12'	190 U	4.7 U	19 U	95 U	19 U	95 U	95 U	19 U
ICS-LP2-SO-A	3 - 5'	180 U	18 U	**28**	92 U	**14 J**	92 U	92 U	18 U
ICS-LP2-SO-B	5.5 - 7.5'	190 U	4.7 U	**18 J**	95 U	**13 J**	95 U	95 U	19 U
ICS-LP2-SO-C	8 - 10'	190 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-LP3-SO-A	3 - 5'	190 U	4.7 U	**210**	93 U	**90**	93 U	93 U	19 U
ICS-LP3-SO-B	6 - 8'	6700 U	**340**	**51,000**	3400 U	**34,000**	3400 U	**1000 J**	670 U
ICS-LP3-SO-C	10 - 12'	180 U	**38**	**190**	**150**	**160**	91 U	91 U	18 U
ICS-LP3-SO-D	15 - 16'	96 U	**7.0**	**180**	96 U	**180**	-----	96 U	19 U
ICS-LP4-SO-A	8 - 10'	570 U	**170**	**770**	280 U	**540**	280 U	280 U	57 U
ICS-LP4-SO-B	10 - 12'	**170 J**	**19**	**560**	**1200**	**240**	94 U	**52 J**	**760**
ICS-LP4-SO-C	14 - 15'	180 U	4.5 U	18 U	90 U	18 U	90 U	90 U	18 U
ICS-DOF-MW1-A	4 - 5'	200 U	4.9 U	**840**	98 U	**89**	98 U	98 U	20 U
ICS-DOF-MW1-B	6.5 - 7.5'	190 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U
ICS-DOF-MW1-C	11 - 12'	190 U	4.6 U	19 U	93 U	19 U	93 U	93 U	19 U
ICS-DOF-MW2-A	2 - 3'	180 U	4.6 U	18 U	92 U	18 U	92 U	92 U	18 U
ICS-DOF-MW2-B	8 - 9'	190 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-DOF-MW2-C	12 - 13'	200 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U
ICS-DOF-MW3-A	2 - 4'	190 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-DOF-DUP1	dup of MW3-A	190 U	4.7 U	19 U	94 U	**12 J**	94 U	94 U	19 U
ICS-DOF-MW3-B	7 - 8'	200 U	5.0 U	**12 J**	100 U	**23**	100 U	100 U	20 U
ICS-DOF-MW4-A	3 - 4'	190 U	4.8 U	19 U	95 U	**9.5 J**	95 U	95 U	19 U
ICS-DOF-MW4-B	7 - 8'	190 U	4.7 U	**19**	95 U	**36**	95 U	95 U	19 U
ICS-DOF-MW4-C	10 - 11'	200 U	5.0 U	**24**	99 U	**24**	99 U	99 U	20 U
ICS-DOF-MW5-A	3 - 4'	180 U	4.5 U	**14 J**	90 U	**25**	90 U	90 U	18 U
ICS-DOF-MW5-B	7 - 8'	200 U	5.0 U	**46**	99 U	**56**	99 U	99 U	20 U
ICS-DOF-MW6-A	3 - 5'	1000 U	**1100**	**10,000**	520 U	**62,000**	520 U	520 U	100 U
ICS-DOF-MW6-B	6 - 8'	440 U	**200**	**2900**	220 U	**17,000**	220 U	220 U	44 U
ICS-DOF-DUP2	dup of MW6-B	610 U	**460**	**5200**	300 U	**33,000**	300 U	300 U	61 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry
Screening Level (a)		10,500	4530	70,000	-----	14,000	3,500	350,000	-----
ICS-DOF-MW6-C	9 - 10'	190 U	4.7 U	**49**	93 U	**98**	93 U	93 U	19 U
ICS-DOF-MW7-A	3 - 4'	**32 J**	**240**	**680**	93 U	**91,000**	93 U	93 U	19 U
ICS-DOF-MW7-B	7 - 8'	190 U	**11**	19 U	95 U	**93**	95 U	95 U	19 U
ICS-DOF-MW7-C	11 - 12'	190 U	19 U	**55**	94 U	**470**	94 U	94 U	19 U
ICS-DOF-MW8-A	3 - 4'	190 U	4.7 U	**11 J**	95 U	**16 J**	95 U	95 U	19 U
ICS-DOF-MW8-B	7 - 8'	190 U	4.8 U	**64**	95 U	**150**	95 U	95 U	19 U
ICS-DOF-MW8-C	11 - 12'	200 U	4.9 U	**24**	98 U	**240**	98 U	98 U	20 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	94 U	**7.4**	**22**	94 U	**35**	94 U	94 U	19 U
ICS-P11-SO-10	9.5 - 11'	96 U	**6.4**	**19**	96 U	**11 J**	96 U	96 U	19 U
ICS-P11-SO-16	15 - 17'	99 U	5.0 U	20 U	99 U	20 U	99 U	99 U	20 U
ICS-P12-SO-4	3 - 4.5'	98 U	4.9 U	**17 J**	98 U	**11 J**	98 U	98 U	20 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	94 U	**3.8 J**	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P12-SO-13	12 - 14'	97 U	4.9 U	20 U	97 U	20 U	97 U	97 U	20 U
ICS-P12-SO-16	15 - 17'	93 U	**2.9 J**	19 U	93 U	19 U	93 U	93 U	19 U
ICS-P13-SO-4	4 - 6'	99 U	5.0 U	**43**	99 U	**30**	99 U	99 U	20 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U
ICS-P13-SO-17	16.5 - 18'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P14-SO-4	3 - 5'	95 U	**12**	**57**	**29 J**	**32**	95 U	95 U	19 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	96 U	**5.6**	**16 J**	96 U	**14 J**	96 U	96 U	19 U
ICS-P14-SO-16	15 - 17'	94 U	**3.1 J**	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P15-SO-4	3 - 5'	100 U	5.0 U	**30**	100 U	**40**	100 U	100 U	20 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	**49 J**	4.9 U	**160**	99 U	20 U	99 U	99 U	20 U
ICS-P15-SO-16	15 - 17'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P16-SO-4	3 - 4'	98 U	4.9 U	**13 J**	98 U	**13 J**	98 U	98 U	20 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	99 U	5.0 U	20 U	99 U	20 U	99 U	99 U	20 U
ICS-P16-SO-16	15 - 17'	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry
Screening Level (a)		10,500	4530	70,000	-----	14,000	3,500	350,000	-----
ICS-P17-SO-4	4.5 - 6.5'	94 U	**20000**	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	96 U	**73**	**24**	96 U	19 U	96 U	96 U	19 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	94 U	**39**	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	980 U	**8.8**	**2200**	980 U	**2800**	980 U	980 U	200 U
ICS-P18-SO-7	6 - 8'	-----	-----	**3100**	-----	**1600**	-----	-----	-----
ICS-P18-SO-10	9 - 10'	190 U	**5.6**	**1200**	190 U	**2000**	190 U	190 U	39 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	420 U	**47**	**880**	420 U	**920**	420 U	420 U	84 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	94 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	110 U	**7.6**	**260**	110 U	**110**	110 U	110 U	22 U
ICS-P19-SO-10	9 - 10'	95 U	**3.5 J**	19 U	95 U	**19**	95 U	95 U	19 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	97 U	4.9 U	20 U	97 U	**12 J**	97 U	97 U	20 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	97 U	**36**	**14 J**	97 U	**22**	97 U	97 U	19 U
ICS-P20-SO-10	9.5 - 11'	97 U	**19**	19 U	97 U	19 U	97 U	97 U	19 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	94 U	**16**	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P21-SO-7	6 - 8'	180 U	**120**	**1900**	180 U	**1400**	180 U	180 U	37 U
ICS-P21-SO-13	12 - 14'	170 U	**22**	**260**	**890 JQ**	**150**	170 U	170 U	**110**
ICS-P21-SO-16	15 - 17'	96 U	4.8 U	**15 J**	96 U	**11 J**	96 U	96 U	19 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	93 U	4.7 U	**11 J**	93 U	**11 J**	93 U	93 U	19 U
ICS-P22-SO-4	3 - 4.5'	94 U	**3.5 J**	**610**	94 U	**60**	94 U	94 U	19 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	96 U	4.8 U	**19**	96 U	19 U	96 U	96 U	19 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry
Screening Level (a)		10,500	4530	70,000	-----	14,000	3,500	350,000	-----
ICS-P22-SO-16	15 - 17'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P23-SO-3	2 - 4'	97 U	**13**	19 U	97 U	19 U	97 U	97 U	19 U
ICS-P23-SO-10	9.5 - 11	97 U	**12**	19 U	97 U	19 U	97 U	97 U	19 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	99 U	**11**	20 U	99 U	20 U	99 U	99 U	20 U
ICS-P24-SO-4	3 - 5'	92 U	4.6 U	**54**	92 U	**18**	92 U	92 U	18 U
ICS-P24-SO-10	9 - 10.5'	97 U	**7**	**920**	97 U	**130**	97 U	97 U	19 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P25-SO-3	1 - 3'	95 U	**25**	**26**	95 U	**13 J**	95 U	95 U	19 U
ICS-P25-SO-10	9 - 11'	93 U	**30**	19 U	93 U	19 U	93 U	93 U	19 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	94 U	**38**	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P26-SO-4	3 - 5'	94 U	**4.8**	**24**	94 U	**38**	94 U	94 U	19 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	100 U	5.0 U	20 U	100 U	20 U	100 U	100 U	20 U
ICS-P26-SO-16	15 - 17'	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U
ICS-P27-SO-3	1 - 3'	97 U	**2.6 J**	**33**	97 U	**14 J**	97 U	97 U	19 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	96 U	**2.6 J**	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	95 U	**3.8 J**	19 U	95 U	19 U	95 U	95 U	19 U
ICS-P27-SO-32	31 - 33'	93 U	**5.2**	19 U	93 U	19 U	93 U	93 U	19 U
ICS-P28-SO-4	3 - 5'	98 U	**5.4**	**230**	98 U	**660**	98 U	98 U	20 U
ICS-P28-SO-10	8.5 - 10'	98 U	4.9 U	**28**	98 U	**68**	98 U	98 U	20 U
ICS-P28-SO-16	15 - 17'	92 U	4.6 U	18 U	92 U	18 U	92 U	92 U	18 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	93 U	4.6 U	19 U	93 U	19 U	93 U	93 U	19 U
ICS-P29-SO-4	3 - 4'	1200 U	**270**	**350**	1200 U	**2200**	1200 U	1200 U	230 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	93 U	**210**	**220**	93 U	**2700**	93 U	93 U	19 U
ICS-P29-SO-16	15 - 17'	94 U	**3.6 J**	**530**	94 U	**410**	94 U	94 U	19 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry
Screening Level (a)		10,500	4530	70,000	-----	14,000	3,500	350,000	-----
ICS-DUP2	P29-SO-16	95 U	**3.5 J**	**480**	95 U	**380**	95 U	95 U	19 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	99 U	5.0 U	20 U	99 U	20 U	99 U	99 U	20 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	220 U	**36**	**600**	220 U	**510**	220 U	220 U	44 U
ICS-P30-SO-10	9 - 10'	-----	-----	**550**	-----	**140**	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	100 U	**41**	**370**	100 U	**200**	100 U	100 U	20 U
ICS-P30-SO-16	15 - 16.5'	98 U	4.9 U	**21**	98 U	**26**	98 U	98 U	20 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	92 U	4.6 U	18 U	92 U	18 U	92 U	92 U	18 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	94 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U
ICS-P31-SO-10	9 - 11'	97 U	4.8 U	19 U	97 U	19 U	97 U	97 U	19 U
ICS-P31-SO-16	15 - 17'	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U
ICS-P31-SO-32	31 - 33'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P32-SO-16	16 - 17.5'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-SO-DUPL3	P32-SO-16	93 U	4.6 U	18 U	93 U	18 U	93 U	93 U	18 U
ICS-P32-SO-32	31 - 33'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P33-SO-16	15 - 17'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-P33-SO-32	31 - 33'	95 U	4.8 U	19 U	95 U	19 U	95 U	95 U	19 U
ICS-P34-SO-4	3 - 5'	95 U	4.8 U	**8.6 J**	95 U	**7.6 J**	95 U	95 U	19 U
ICS-P34-SO-10	9 - 11'	98 U	4.9 U	10 U	98 U	20 U	98 U	98 U	20 U
ICS-P34-SO-16	15 - 17'	97 U	4.8 U	9.0 U	97 U	19 U	97 U	97 U	19 U
ICS-P35-SO-4	3 - 5'	96 U	4.8 U	8.5 U	96 U	19 U	96 U	96 U	19 U
ICS-P35-SO-10	9 - 11'	93 U	4.7 U	8.9 U	93 U	19 U	93 U	93 U	19 U
ICS-P35-SO-16	15 - 17'	98 U	4.9 U	7.5 U	98 U	20 U	98 U	98 U	20 U
ICS-P36-SO-4	3 - 4'	94 U	4.7 U	7.4 U	94 U	19 U	94 U	94 U	19 U
ICS-P36-SO-10	10 - 12'	94 U	4.7 U	7.9 U	94 U	19 U	94 U	94 U	19 U
ICS-P36-SO-16	15 - 17'	95 U	4.8 U	8.6 U	95 U	19 U	95 U	95 U	19 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	2,4-Dichloro-phenol µg/kg, dry	1,2,4-Trichloro-benzene µg/kg, dry	Naphthalene µg/kg, dry	4-Chloro-3-methylphenol µg/kg, dry	2-Methyl-naphthalene µg/kg, dry	2,4,6-Trichloro-phenol µg/kg, dry	2,4,5-Trichloro-phenol µg/kg, dry	2-Chloro-naphthalene µg/kg, dry
Screening Level (a)		10,500	4530	70,000	-----	14,000	3,500	350,000	-----
ICS-Ap-10-SO	9 - 10'	94 U	4.7 U	**5.6 J**	94 U	**5.6 J**	94 U	94 U	19 U
ICS-Bp-10-SO	9 - 10'	97 U	4.9 U	20 U	97 U	**7.8 J**	97 U	97 U	20 U
ICS-Cp-10-SO	9 - 10'	96 U	4.8 U	**36**	96 U	**16 J**	96 U	96 U	19 U
ICS-Du-10-SO	9 - 10'	94 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U
ICS-Du-16-SO	15 - 17'	94 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U
ICS-FL-4-SO	3 - 5'	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U
ICS-FL-7-SO	6 - 8'	95 U	4.7 U	19 U	95 U	19 U	95 U	95 U	19 U
ICS-FL-10-SO	9 - 10'	100 U	5.0 U	**14 J**	100 U	**16 J**	100 U	100 U	20 U
ICS-FL-13-SO	12 - 14'	100 U	5.0 U	20 U	100 U	20 U	100 U	100 U	20 U
ICS-FL-16-SO	15.5 - 17'	94 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U
ICS-FL-21-SO	20 - 22'	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U
ICS-Ju-4-SO	3 - 4'	**1100**	**430**	**4400**	590 U	**4900**	590 U	590 U	120 U
ICS-Ju-10-SO	10- 11'	97 U	**2.4 J**	**55**	97 U	**32**	97 U	97 U	20 U
ICS-Ju-15-SO	15 - 16	96 U	4.8 U	**7.7 J**	96 U	**7.7 J**	96 U	96 U	19 U
Number of Samples		137	137	140	137	139	137	137	137
Number of Detections		4	53	69	4	72	0	2	2
Percent Detected		2.9%	38.7%	49.3%	2.9%	51.8%	0.0%	1.5%	1.5%
Highest Conc.		1100	20000	51000	1200	91000	0	1000	760

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzofuran µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry
Screening Level (a)			-----	210,000	3,500	87.5	423	2,800,000	-----
ICS-LP1-SO-A	3 - 5'	18 U	**23**	18 U	18 U	87 U	87 U	44 U	18 U
ICS-LP1-SO-B	6.5 - 8'	63 U	63 U	**50 J**	63 U	320 U	320 U	160 U	63 U
ICS-LP1-SO-C	10.5 - 12'	19 U	19 U	19 U	19 U	95 U	95 U	47 U	19 U
ICS-LP2-SO-A	3 - 5'	18 U	18 U	18 U	18 U	92 U	92 U	46 U	18 U
ICS-LP2-SO-B	5.5 - 7.5'	19 U	19 U	19 U	19 U	95 U	95 U	47 U	19 U
ICS-LP2-SO-C	8 - 10'	19 U	19 U	19 U	19 U	96 U	96 U	48 U	19 U
ICS-LP3-SO-A	3 - 5'	**460**	**18 J**	**23**	**48**	93 U	93 U	**1300**	19 U
ICS-LP3-SO-B	6 - 8'	**540 J**	670 U	**9700**	**7100**	3400 U	3400 U	**2200**	670 U
ICS-LP3-SO-C	10 - 12'	18 U	18 U	**46**	**36**	91 U	91 U	**34 J**	18 U
ICS-LP3-SO-D	15 - 16'	19 U	19 U	**42**	**32**	96 U	96 U	**39 J**	19 U
ICS-LP4-SO-A	8 - 10'	57 U	57 U	**250**	**190**	280 U	280 U	140 U	57 U
ICS-LP4-SO-B	10 - 12'	19 U	19 U	**20**	**24**	94 U	94 U	47 U	19 U
ICS-LP4-SO-C	14 - 15'	18 U	18 U	18 U	18 U	90 U	90 U	45 U	18 U
ICS-DOF-MW1-A	4 - 5'	20 U	20 U	20 U	**19 J**	98 U	98 U	49 U	20 U
ICS-DOF-MW1-B	6.5 - 7.5'	19 U	19 U	19 U	19 U	94 U	94 U	47 U	19 U
ICS-DOF-MW1-C	11 - 12'	19 U	19 U	19 U	19 U	93 U	93 U	46 U	19 U
ICS-DOF-MW2-A	2 - 3'	18 U	18 U	18 U	18 U	92 U	92 U	46 U	18 U
ICS-DOF-MW2-B	8 - 9'	19 U	19 U	19 U	19 U	96 U	96 U	48 U	19 U
ICS-DOF-MW2-C	12 - 13'	20 U	20 U	20 U	20 U	98 U	98 U	49 U	20 U
ICS-DOF-MW3-A	2 - 4'	19 U	19 U	19 U	19 U	96 U	96 U	48 U	19 U
ICS-DOF-DUP1	dup of MW3-A	19 U	19 U	19 U	19 U	94 U	94 U	47 U	19 U
ICS-DOF-MW3-B	7 - 8'	20 U	20 U	20 U	20 U	100 U	100 U	50 U	20 U
ICS-DOF-MW4-A	3 - 4'	19 U	19 U	19 U	19 U	95 U	95 U	48 U	19 U
ICS-DOF-MW4-B	7 - 8'	19 U	19 U	19 U	**15 J**	95 U	95 U	47 U	19 U
ICS-DOF-MW4-C	10 - 11'	20 U	20 U	**16 J**	**22**	99 U	99 U	50 U	20 U
ICS-DOF-MW5-A	3 - 4'	18 U	18 U	18 U	**12 J**	90 U	90 U	45 U	18 U
ICS-DOF-MW5-B	7 - 8'	20 U	20 U	**11 J**	**24**	99 U	99 U	50 U	20 U
ICS-DOF-MW6-A	3 - 5'	100 U	100 U	**3200**	100 U	520 U	520 U	260 U	100 U
ICS-DOF-MW6-B	6 - 8'	44 U	44 U	**620**	**330**	220 U	220 U	110 U	44 U
ICS-DOF-DUP2	dup of MW6-B	61 U	61 U	**1500**	61 U	300 U	300 U	150 U	61 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzofuran µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry
Screening Level (a)			-----	210,000	3,500	87.5	423	2,800,000	-----
ICS-DOF-MW6-C	9 - 10'	19 U	19 U	19 U	19 U	93 U	93 U	47 U	19 U
ICS-DOF-MW7-A	3 - 4'	19 U	**73**	**420**	**72**	93 U	93 U	47 U	19 U
ICS-DOF-MW7-B	7 - 8'	19 U	19 U	19 U	19 U	95 U	95 U	48 U	19 U
ICS-DOF-MW7-C	11 - 12'	19 U	19 U	19 U	19 U	94 U	94 U	47 U	19 U
ICS-DOF-MW8-A	3 - 4'	19 U	19 U	19 U	19 U	95 U	95 U	47 U	19 U
ICS-DOF-MW8-B	7 - 8'	19 U	**27**	**110**	**160**	95 U	95 U	48 U	19 U
ICS-DOF-MW8-C	11 - 12'	20 U	20 U	20 U	20 U	98 U	98 U	49 U	20 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	19 U	19 U	**13 J**	**11 J**	94 U	94 U	**20**	19 U
ICS-P11-SO-10	9.5 - 11'	19 U	19 U	19 U	19 U	96 U	96 U	**19**	19 U
ICS-P11-SO-16	15 - 17'	20 U	20 U	20 U	20 U	99 U	99 U	20 U	20 U
ICS-P12-SO-4	3 - 4.5'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-P12-SO-13	12 - 14'	20 U	20 U	20 U	20 U	97 U	97 U	20 U	20 U
ICS-P12-SO-16	15 - 17'	19 U	19 U	19 U	19 U	93 U	93 U	19 U	19 U
ICS-P13-SO-4	4 - 6'	20 U	20 U	**20**	**220**	99 U	99 U	**24 JB**	20 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	20 U	20 U	20 U	20 U	98 U	98 U	**20 JB**	20 U
ICS-P13-SO-17	16.5 - 18'	19 U	19 U	19 U	19 U	96 U	96 U	**21 JB**	19 U
ICS-P14-SO-4	3 - 5'	**8.6 J**	**12 J**	**14 J**	**17 J**	95 U	95 U	19 U	19 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	19 U	19 U	**16 J**	**15 J**	96 U	96 U	19 U	19 U
ICS-P14-SO-16	15 - 17'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-P15-SO-4	3 - 5'	20 U	20 U	20 U	20 U	100 U	100 U	**21 JQ**	20 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	20 U	20 U	20 U	**40**	99 U	99 U	20 U	20 U
ICS-P15-SO-16	15 - 17'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P16-SO-4	3 - 4'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	20 U	20 U	20 U	20 U	99 U	99 U	20 U	20 U
ICS-P16-SO-16	15 - 17'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzofuran µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry
Screening Level (a)			-----	210,000	3,500	87.5	423	2,800,000	-----
ICS-P17-SO-4	4.5 - 6.5'	19 U	19 U	**100**	19 U	94 U	94 U	19 U	19 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	200 U	**98 J**	**1800**	**1300**	980 U	980 U	200 U	200 U
ICS-P18-SO-7	6 - 8'	-----	**24 J**	**370**	**180**	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	39 U	39 U	**420**	**230**	190 U	190 U	39 U	39 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	84 U	84 U	**570**	**310**	420 U	420 U	**170**	84 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	19 U	19 U	19 U	19 U	94 U	94 U	**25**	19 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	22 U	22 U	**45**	**33**	110 U	110 U	**23**	22 U
ICS-P19-SO-10	9 - 10'	19 U	19 U	19 U	19 U	95 U	95 U	**23**	19 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	20 U	20 U	20 U	20 U	97 U	97 U	**18 J**	20 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	19 U	19 U	19 U	19 U	97 U	97 U	19 U	19 U
ICS-P20-SO-10	9.5 - 11'	19 U	19 U	19 U	19 U	97 U	97 U	19 U	19 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-P21-SO-7	6 - 8'	37 U	37 U	**690**	**360**	180 U	180 U	37 U	37 U
ICS-P21-SO-13	12 - 14'	34 U	34 U	**60**	**29 J**	170 U	170 U	34 U	34 U
ICS-P21-SO-16	15 - 17'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	19 U	19 U	19 U	19 U	93 U	93 U	19 U	19 U
ICS-P22-SO-4	3 - 4.5'	19 U	19 U	**57**	**46**	**94 U**	94 U	19 U	19 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	**27**	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzofuran µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry
Screening Level (a)			-----	210,000	3,500	87.5	423	2,800,000	-----
ICS-P22-SO-16	15 - 17'	19 U	j	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P23-SO-3	2 - 4'	19 U	19 U	19 U	19 U	97 U	97 U	**28**	19 U
ICS-P23-SO-10	9.5 - 11	19 U	19 U	19 U	19 U	97 U	97 U	19 U	19 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	20 U	20 U	20 U	20 U	99 U	99 U	**34**	20 U
ICS-P24-SO-4	3 - 5'	18 U	18 U	18 U	18 U	92 U	18 U	**21 JB**	18 U
ICS-P24-SO-10	9 - 10.5'	19 U	19 U	**40**	**29**	97 U	97 U	**32 JB**	19 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	19 U	19 U	19 U	19 U	96 U	96 U	**41 JB**	19 U
ICS-P25-SO-3	1 - 3'	19 U	**19**	19 U	**10 J**	95 U	95 U	19 U	19 U
ICS-P25-SO-10	9 - 11'	19 U	19 U	19 U	19 U	93 U	93 U	19 U	19 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-P26-SO-4	3 - 5'	19 U	19 U	19 U	**9.4 J**	94 U	94 U	**38 JB**	19 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	20 U	20 U	20 U	20 U	100 U	100 U	**28 JB**	20 U
ICS-P26-SO-16	15 - 17'	20 U	20 U	20 U	20 U	98 U	98 U	**26 JB**	20 U
ICS-P27-SO-3	1 - 3'	19 U	19 U	19 U	**16 J**	97 U	97 U	19 U	19 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	19 U	19 U	19 U	19 U	95 U	95 U	19 U	19 U
ICS-P27-SO-32	31 - 33'	19 U	19 U	19 U	19 U	93 U	93 U	19 U	19 U
ICS-P28-SO-4	3 - 5'	20 U	20 U	**20**	**12 J**	98 U	98 U	**19 J**	20 U
ICS-P28-SO-10	8.5 - 10'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U
ICS-P28-SO-16	15 - 17'	18 U	18 U	18 U	18 U	92 U	92 U	**19**	18 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	19 U	19 U	19 U	19 U	93 U	93 U	**18 J**	19 U
ICS-P29-SO-4	3 - 4'	230 U	230 U	**640**	**360**	1200 U	1200 U	**260 JB**	230 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	19 U	19 U	**38**	**26**	93 U	93 U	19 U	19 U
ICS-P29-SO-16	15 - 17'	19 U	19 U	**230**	**230**	94 U	94 U	19 U	19 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzofuran µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry
Screening Level (a)			-----	210,000	3,500	87.5	423	2,800,000	-----
ICS-DUP2	P29-SO-16	19 U	19 U	**200**	**190**	95 U	95 U	19 U	19 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	20 U	20 U	20 U	20 U	99 U	99 U	20 U	20 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	44 U	**31**	44 U	44 U	220 U	220 U	44 U	44 U
ICS-P30-SO-10	9 - 10'	-----	**24**	**27**	**54**	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	**19**	**31**	**65**	**55**	100 U	100 U	20 U	20 U
ICS-P30-SO-16	15 - 16.5'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	18 U	18 U	18 U	18 U	92 U	92 U	18 U	18 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-P31-SO-10	9 - 11'	19 U	19 U	19 U	**6.8 J**	97 U	97 U	19 U	19 U
ICS-P31-SO-16	15 - 17'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U
ICS-P31-SO-32	31 - 33'	19 U	19 U	19 U	19 U	96 U	96 U	**39**	19 U
ICS-P32-SO-16	16 - 17.5'	19 U	19 U	19 U	19 U	96 U	96 U	**33**	19 U
ICS-SO-DUPL3	P32-SO-16	18 U	18 U	18 U	18 U	93 U	93 U	**18**	18 U
ICS-P32-SO-32	31 - 33'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P33-SO-16	15 - 17'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P33-SO-32	31 - 33'	19 U	19 U	19 U	19 U	95 U	95 U	19 U	19 U
ICS-P34-SO-4	3 - 5'	19 U	**8.6 J**	19 U	**4.8 J**	95 U	95 U	**19 JB**	19 U
ICS-P34-SO-10	9 - 11'	20 U	20 U	20 U	20 U	98 U	98 U	**24 JB**	20 U
ICS-P34-SO-16	15 - 17'	19 U	19 U	19 U	19 U	97 U	97 U	19 U	19 U
ICS-P35-SO-4	3 - 5'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-P35-SO-10	9 - 11'	19 U	19 U	19 U	19 U	93 U	93 U	19 U	19 U
ICS-P35-SO-16	15 - 17'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U
ICS-P36-SO-4	3 - 4'	19 U	19 U	19 U	19 U	94 U	94 U	**19 JB**	19 U
ICS-P36-SO-10	10 - 12'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-P36-SO-16	15 - 17'	19 U	19 U	19 U	19 U	95 U	95 U	19 U	19 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Dimethyl-phthalate µg/kg, dry	Acenaph-thylene µg/kg, dry	Acenaphthene µg/kg, dry	Dibenzofuran µg/kg, dry	2,6-Dinitro-toluene µg/kg, dry	2,4-Dinitro-toluene µg/kg, dry	Diethyl-phthalate µg/kg, dry	4-Chlorophenyl-phenylether µg/kg, dry
Screening Level (a)			-----	210,000	3,500	87.5	423	2,800,000	-----
ICS-Ap-10-SO	9 - 10'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-Bp-10-SO	9 - 10'	20 U	20 U	20 U	**4.9 J**	97 U	97 U	20 U	20 U
ICS-Cp-10-SO	9 - 10'	19 U	19 U	**17 J**	**17 J**	96 U	96 U	19 U	19 U
ICS-Du-10-SO	9 - 10'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-Du-16-SO	15 - 17'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-FL-4-SO	3 - 5'	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
ICS-FL-7-SO	6 - 8'	19 U	19 U	19 U	19 U	95 U	95 U	19 U	19 U
ICS-FL-10-SO	9 - 10'	20 U	20 U	20 U	20 U	100 U	100 U	20 U	20 U
ICS-FL-13-SO	12 - 14'	20 U	20 U	20 U	20 U	100 U	100 U	20 U	20 U
ICS-FL-16-SO	15.5 - 17'	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U
ICS-FL-21-SO	20 - 22'	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U
ICS-Ju-4-SO	3 - 4'	120 U	120 U	**510**	**580**	590 U	590 U	120 U	120 U
ICS-Ju-10-SO	10- 11'	20 U	**21**	**21**	**20**	97 U	97 U	20 U	20 U
ICS-Ju-15-SO	15 - 16	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U
Number of Samples		137	140	140	140	137	137	137	137
Number of Detections		5	12	38	44	0	0	33	0
Percent Detected		3.6%	8.6%	27.1%	31.4%	0.0%	0.0%	24.1%	0.0%
Highest Conc.		540	98	9700	7100	0	0	2200	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry
Screening Level (a)		140,000	26,800	328	-----	-----	1,050,000	-----	140,000
ICS-LP1-SO-A	3 - 5'	18 U	18 U	**15 J**	**52**	18 U	**21**	**9.6 J**	**68**
ICS-LP1-SO-B	6.5 - 8'	**50 J**	**38 J**	**140 J**	**200**	63 U	**110**	63 U	**540**
ICS-LP1-SO-C	10.5 - 12'	19 U	19 U	47 U	19 U	19 U	19 U	19 U	**10 J**
ICS-LP2-SO-A	3 - 5'	18 U	18 U	46 U	**42**	18 U	18 U	**10 J**	**55**
ICS-LP2-SO-B	5.5 - 7.5'	19 U	19 U	47 U	**9.5 J**	19 U	19 U	19 U	19 U
ICS-LP2-SO-C	8 - 10'	19 U	19 U	48 U	19 U	19 U	19 U	19 U	19 U
ICS-LP3-SO-A	3 - 5'	**45**	**12 J**	**460**	**220**	**34**	**34**	**420**	**200**
ICS-LP3-SO-B	6 - 8'	**12,000**	**1400**	**5300 J**	**42,000**	**6000**	**7900**	**16,000**	**32,000**
ICS-LP3-SO-C	10 - 12'	**78**	**28**	**56 J**	**330**	**33**	**42**	**81**	**120**
ICS-LP3-SO-D	15 - 16'	**53**	4.8 U	**72 J**	**210**	**30**	**35**	**59**	**110**
ICS-LP4-SO-A	8 - 10'	**310**	**94**	**210 J**	**1100**	**60**	**220**	**300**	**850**
ICS-LP4-SO-B	10 - 12'	**45**	**41**	**150 J**	**250**	19 U	19 U	19 U	**130**
ICS-LP4-SO-C	14 - 15'	18 U	18 U	45 U	18 U	18 U	18 U	18 U	18 U
ICS-DOF-MW1-A	4 - 5'	20 U	20 U	49 U	**86**	20 U	20 U	20 U	**36**
ICS-DOF-MW1-B	6.5 - 7.5'	19 U	19 U	47 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW1-C	11 - 12'	19 U	19 U	46 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW2-A	2 - 3'	18 U	18 U	46 U	18 U	18 U	18 U	18 U	18 U
ICS-DOF-MW2-B	8 - 9'	19 U	19 U	48 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW2-C	12 - 13'	20 U	20 U	49 U	20 U	20 U	20 U	20 U	20 U
ICS-DOF-MW3-A	2 - 4'	19 U	19 U	48 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-DUP1	dup of MW3-A	19 U	19 U	47 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW3-B	7 - 8'	20 U	**13 J**	50 U	**30**	20 U	20 U	20 U	20 U
ICS-DOF-MW4-A	3 - 4'	19 U	19 U	48 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW4-B	7 - 8'	**10 J**	**15 J**	47 U	**51**	19 U	19 U	19 U	**24**
ICS-DOF-MW4-C	10 - 11'	**25**	20 U	50 U	**69**	20 U	**17 J**	20 U	**85**
ICS-DOF-MW5-A	3 - 4'	18 U	18 U	45 U	**36**	18 U	18 U	18 U	**14 J**
ICS-DOF-MW5-B	7 - 8'	**14 J**	20 U	50 U	**61**	20 U	**11 J**	20 U	**34**
ICS-DOF-MW6-A	3 - 5'	**8400**	100 U	260 U	**9500**	100 U	100 U	100 U	**99 J**
ICS-DOF-MW6-B	6 - 8'	**1600**	44 U	110 U	**2400**	44 U	44 U	44 U	**47**
ICS-DOF-DUP2	dup of MW6-B	**3500**	61 U	150 U	**4900**	61 U	61 U	61 U	**94**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry
Screening Level (a)		140,000	26,800	328	-----	-----	1,050,000	-----	140,000
ICS-DOF-MW6-C	9 - 10'	**12 J**	19 U	47 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW7-A	3 - 4'	**340**	19 U	**160,000**	**1000**	**34 JQ**	**270**	**600**	**580**
ICS-DOF-MW7-B	7 - 8'	**25**	**4.4 J**	**88**	**13 J**	19 U	19 U	19 U	19 U
ICS-DOF-MW7-C	11 - 12'	19 U	19 U	**62**	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW8-A	3 - 4'	19 U	19 U	190 U	19 U	19 U	19 U	19 U	19 U
ICS-DOF-MW8-B	7 - 8'	**220**	19 U	**24 J**	**620**	**200 JQ**	**94**	19 U	**12 J**
ICS-DOF-MW8-C	11 - 12'	20 U	20 U	**250**	20 U	20 U	20 U	20 U	20 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	**13 J**	**5.5**	**13 J**	**18 J**	**10 J**	19 U	19 U	**16 J**
ICS-P11-SO-10	9.5 - 11'	19 U	4.8 U	**17 J**	**22**	19 U	**9.6 J**	19 U	**12 J**
ICS-P11-SO-16	15 - 17'	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P12-SO-4	3 - 4.5'	20 U	**3.6 J**	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	19 U	4.7 U	**11 J**	**11 J**	19 U	19 U	19 U	19 U
ICS-P12-SO-13	12 - 14'	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P12-SO-16	15 - 17'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P13-SO-4	4 - 6'	**18 J**	5.0 U	**220 JQ**	**70**	20 U	**12 J**	**180**	**81**
ICS-P13-SO-7	6 -8'	-----	-----	**3.5 J**	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P13-SO-17	16.5 - 18'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P14-SO-4	3 - 5'	**24**	**14**	**23 JQ**	**65**	**22**	**17 J**	**11 J**	**65**
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	**24**	**3.0 J**	**18 J**	**270**	**32**	**38**	**9.6 J**	**360**
ICS-P14-SO-16	15 - 17'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P15-SO-4	3 - 5'	**10 J**	5.0 U	**29 JQ**	**45**	20 U	**13 J**	20 U	**30**
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	20 U	4.9 U	**11 J**	20 U	20 U	20 U	20 U	20 U
ICS-P15-SO-16	15 - 17'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P16-SO-4	3 - 4'	20 U	4.9 U	20 U	**21**	20 U	20 U	20 U	**24**
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P16-SO-16	15 - 17'	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry
Screening Level (a)		140,000	26,800	328	-----	-----	1,050,000	-----	140,000
ICS-P17-SO-4	4.5 - 6.5'	**450**	4.7 U	19 U	**480**	19 U	**39**	19 U	**35**
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	**2900**	4.9 U	**50**	**12000**	**1100 JQ**	**3500**	**210**	**12000**
ICS-P18-SO-7	6 - 8'	**240**	-----	-----	**870**	-----	**80**	-----	**380**
ICS-P18-SO-10	9 - 10'	**480**	4.8 U	19 U	**1200**	**58 JQ**	**87**	**16 J**	**480**
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	**610**	21 U	**100**	**2700**	**160 JQ**	**500**	**100**	**1700**
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	**6.6 J**
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	**71**	5.4 U	**53**	**310**	**21 J**	**47**	**14 J**	**230**
ICS-P19-SO-10	9 - 10'	19 U	4.7 U	**15 J**	**17 J**	19 U	**7.6 J**	19 U	**8.5 J**
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	20 U	4.9 U	20 U	**18 J**	20 U	20 U	20 U	**11 J**
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	19 U	4.8 U	19 U	**25**	19 U	19 U	19 U	19 U
ICS-P20-SO-10	9.5 - 11'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	19 U	4.7 U	**11 J**	**9.4 J**	19 U	19 U	19 U	19 U
ICS-P21-SO-7	6 - 8'	**620**	**53**	**150**	**2100**	**140**	**400**	37 U	**1200**
ICS-P21-SO-13	12 - 14'	**64**	**70**	**54**	**230**	**33 J**	**74**	34 U	**310**
ICS-P21-SO-16	15 - 17'	19 U	4.8 U	19 U	**14 J**	19 U	19 U	19 U	**11 J**
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	19 U	4.7 U	19 U	**11 J**	19 U	19 U	19 U	19 U
ICS-P22-SO-4	3 - 4.5'	**64**	4.7 U	19 U	**140**	**54**	**23**	**12 J**	**38**
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	19 U	4.8 U	19 U	**15 J**	19 U	19 U	19 U	**12 J**
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry
Screening Level (a)		140,000	26,800	328	-----	-----	1,050,000	-----	140,000
ICS-P22-SO-16	15 - 17'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P23-SO-3	2 - 4'	19 U	4.9 U	19 U	19 U	19 U	19 U	19 U	**68**
ICS-P23-SO-10	9.5 - 11	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	20 U	5.0 U	20 U	**11 J**	20 U	20 U	20 U	20 U
ICS-P24-SO-4	3 - 5'	18 U	4.6 U	18 U	**37**	18 U	18 U	**13 J**	**18**
ICS-P24-SO-10	9 - 10.5'	**37**	**51**	**34 JQ**	**92**	19 U	**24**	19 U	**130**
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P25-SO-3	1 - 3'	19 U	**3.0 J**	19 U	**120**	**12 J**	**12 J**	19 U	**170**
ICS-P25-SO-10	9 - 11'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P26-SO-4	3 - 5'	**17 J**	**11**	19 U	**110**	19 U	**16 J**	**49**	**89**
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P26-SO-16	15 - 17'	20 U	4.9 U	20 U	**14 J**	20 U	20 U	20 U	20 U
ICS-P27-SO-3	1 - 3'	19 U	4.8 U	**72**	**77**	**11 J**	19 U	**25**	**61**
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	19 U	4.8 U	19 U	**12 J**	19 U	19 U	19 U	19 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P27-SO-32	31 - 33'	19 U	4.6 U	19 U	**14 J**	19 U	19 U	19 U	19 U
ICS-P28-SO-4	3 - 5'	**54**	4.9 U	**14 J**	**34**	**11 J**	20 U	20 U	20 U
ICS-P28-SO-10	8.5 - 10'	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P28-SO-16	15 - 17'	18 U	4.6 U	18 U	18 U	18 U	18 U	18 U	18 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	19 U	4.6 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P29-SO-4	3 - 4'	**350**	58 U	**410**	**2400**	230 U	**480**	**310**	**1100**
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	**30**	4.7 U	**35**	**410**	**44 JQ**	**25**	19 U	**47**
ICS-P29-SO-16	15 - 17'	**150**	4.7 U	**50**	**860**	**120 JQ**	**81**	19 U	**330**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry
Screening Level (a)		140,000	26,800	328	-----	-----	1,050,000	-----	140,000
ICS-DUP2	P29-SO-16	**150**	4.7 U	**48**	**660**	**110 JQ**	**72**	19 U	**270**
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	**140**	**140**	**50**	**1000**	**150**	**230**	**280**	**1400**
ICS-P30-SO-10	9 - 10'	**67**	-----	-----	**660**	-----	**120**	-----	**530**
ICS-P30-SO-13	12.5 - 13.5'	**76**	**160**	**36**	**490**	**37**	**120**	**270**	**690**
ICS-P30-SO-16	15 - 16.5'	**8.8**	4.9 U	20 U	**14**	20 U	20 U	20 U	**11**
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	18 U	**3**	18 U	**14**	18 U	18 U	18 U	**9.2**
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	19 U	4.7 U	19 U	**13 J**	19 U	19 U	19 U	19 U
ICS-P31-SO-10	9 - 11'	19 U	4.8 U	19 U	**42**	19 U	19 U	19 U	**48**
ICS-P31-SO-16	15 - 17'	20 U	4.9 U	20 U	**12 J**	20 U	20 U	20 U	20 U
ICS-P31-SO-32	31 - 33'	19 U	4.8 U	19 U	**12 J**	19 U	19 U	19 U	19 U
ICS-P32-SO-16	16 - 17.5'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-SO-DUPL3	P32-SO-16	18 U	4.6 U	18 U	18 U	18 U	18 U	18 U	18 U
ICS-P32-SO-32	31 - 33'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P33-SO-16	15 - 17'	19 U	4.8 U	19 U	**9.6 J**	19 U	19 U	19 U	19 U
ICS-P33-SO-32	31 - 33'	19 U	4.8 U	19 U	**8.6 J**	19 U	19 U	19 U	19 U
ICS-P34-SO-4	3 - 5'	19 U	4.8 U	19 U	**22**	**8.6 J**	19 U	**6.7 J**	**37**
ICS-P34-SO-10	9 - 11'	20 U	4.9 U	20 U	**11 J**	20 U	20 U	**6.9 J**	20 U
ICS-P34-SO-16	15 - 17'	19 U	4.8 U	19 U	**9.7 J**	19 U	19 U	19 U	19 U
ICS-P35-SO-4	3 - 5'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P35-SO-10	9 - 11'	19 U	4.7 U	19 U	**6.5 J**	19 U	19 U	**9.3 J**	19 U
ICS-P35-SO-16	15 - 17'	20 U	4.9 U	20 U	**13 J**	20 U	20 U	**9.8 J**	**5.9 JB**
ICS-P36-SO-4	3 - 4'	19 U	4.7 U	19 U	**5.6 J**	19 U	19 U	**8.4 J**	19 U
ICS-P36-SO-10	10 - 12'	19 U	4.7 U	19 U	**7.5 J**	19 U	19 U	**6.6 J**	19 U
ICS-P36-SO-16	15 - 17'	19 U	4.8 U	19 U	19 U	19 U	19 U	**6.6 J**	19 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Fluorene µg/kg, dry	N-Nitrosodi-phenylamine µg/kg, dry	Pentachloro-phenol µg/kg, dry	Phenanthrene µg/kg, dry	Carbazole µg/kg, dry	Anthracene µg/kg, dry	Di-n-butyl-phthalate µg/kg, dry	Fluoranthene µg/kg, dry
Screening Level (a)		140,000	26,800	328	-----	-----	1,050,000	-----	140,000
ICS-Ap-10-SO	9 - 10'	19 U	4.7 U	**17 J**	**10 J**	19 U	19 U	19 U	**5.6 J**
ICS-Bp-10-SO	9 - 10'	20 U	4.9 U	20 U	**20**	20 U	20 U	20 U	**13 J**
ICS-Cp-10-SO	9 - 10'	**33**	4.8 U	19 U	**66**	19 U	**16 J**	19 U	**74**
ICS-Du-10-SO	9 - 10'	**4.7 J**	4.7 U	19 U	**24**	19 U	19 U	19 U	**26**
ICS-Du-16-SO	15 - 17'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-FL-4-SO	3 - 5'	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-FL-7-SO	6 - 8'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-FL-10-SO	9 - 10'	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-FL-13-SO	12 - 14'	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-FL-16-SO	15.5 - 17'	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-FL-21-SO	20 - 22'	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-Ju-4-SO	3 - 4'	**1400**	29 U	**1800**	**7600**	**420**	**590 J**	**2100**	**3000**
ICS-Ju-10-SO	10- 11'	**41**	**6.8**	**43**	**82**	**16 J**	**26**	20 U	**130**
ICS-Ju-15-SO	15 - 16	**5.8 J**	**2.9 J**	**11 J**	**45**	19 U	**14 J**	19 U	**69**
Number of Samples		140	137	137	140	137	140	137	140
Number of Detections		47	23	41	85	28	40	29	66
Percent Detected		33.6%	16.8%	29.9%	60.7%	20.4%	28.6%	21.2%	47.1%
Highest Conc.		12000	1400	160000	42000	6000	7900	16000	32000

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry
Screening Level (a)		105,000	69,100	see BaPEq	9,380	see BaPEq	35,000	see BaPEq	see BaPEq
ICS-LP1-SO-A	3 - 5'	**66**	4.4 U	**34**	**170**	**53**	18 U	**93**	**62**
ICS-LP1-SO-B	6.5 - 8'	**600**	63 U	**220**	**2100**	**350**	63 U	**510**	**230**
ICS-LP1-SO-C	10.5 - 12'	**10 J**	4.7 U	19 U	**19 JB**	19 U	19 U	38 U	19 U
ICS-LP2-SO-A	3 - 5'	**50**	4.6 U	**21**	**37**	**38**	18 U	**56**	**25**
ICS-LP2-SO-B	5.5 - 7.5'	19 U	4.7 U	19 U	**22 JB**	19 U	19 U	38 U	19 U
ICS-LP2-SO-C	8 - 10'	19 U	4.8 U	19 U	**24 JB**	19 U	19 U	38 U	19 U
ICS-LP3-SO-A	3 - 5'	**130**	**180**	**88**	**380**	**110**	19 U	**270**	**150**
ICS-LP3-SO-B	6 - 8'	**23,000**	**14,000**	**13,000**	**55,000**	**14,000**	670 U	**18,000**	**10,000**
ICS-LP3-SO-C	10 - 12'	**120**	**48**	**49**	**340**	**64**	18 U	**78**	**38**
ICS-LP3-SO-D	15 - 16'	**100**	**43**	**46**	**270**	**54**	19 U	**78**	**40**
ICS-LP4-SO-A	8 - 10'	**650**	**57**	**240**	**1400**	**300**	57 U	**350**	**200**
ICS-LP4-SO-B	10 - 12'	**140**	4.7 U	**50**	**120**	**79**	19 U	**84**	**41**
ICS-LP4-SO-C	14 - 15'	18 U	4.5 U	18 U	**22 JB**	18 U	18 U	36 U	18 U
ICS-DOF-MW1-A	4 - 5'	**35**	20 U	**12 J**	**20 JB**	**17 J**	20 U	**20 J**	20 U
ICS-DOF-MW1-B	6.5 - 7.5'	19 U	4.7 U	19 U	**22 JB**	19 U	19 U	38 U	19 U
ICS-DOF-MW1-C	11 - 12'	19 U	4.6 U	19 U	**30 JB**	19 U	19 U	37 U	19 U
ICS-DOF-MW2-A	2 - 3'	18 U	4.6 U	18 U	**17 JB**	18 U	18 U	37 U	18 U
ICS-DOF-MW2-B	8 - 9'	19 U	4.8 U	19 U	**14 JB**	19 U	19 U	38 U	19 U
ICS-DOF-MW2-C	12 - 13'	20 U	4.9 U	20 U	**16 JB**	20 U	20 U	39 U	20 U
ICS-DOF-MW3-A	2 - 4'	19 U	**13**	19 U	**260**	19 U	19 U	38 U	19 U
ICS-DOF-DUP1	dup of MW3-A	19 U	4.7 U	19 U	24 U	19 U	19 U	38 U	19 U
ICS-DOF-MW3-B	7 - 8'	20 U	5.0 U	20 U	25 U	20 U	20 U	40 U	20 U
ICS-DOF-MW4-A	3 - 4'	19 U	4.8 U	19 U	24 U	19 U	19 U	38 U	19 U
ICS-DOF-MW4-B	7 - 8'	**18 J**	4.7 U	19 U	**16 JB**	**10 J**	19 U	38 U	19 U
ICS-DOF-MW4-C	10 - 11'	**56**	5.0 U	**19 J**	**20 JB**	**23**	20 U	**27 J**	**14 J**
ICS-DOF-MW5-A	3 - 4'	**14 J**	4.5 U	18 U	23 U	**13 J**	18 U	**9 J**	18 U
ICS-DOF-MW5-B	7 - 8'	**32**	5.0 U	**11 J**	25 U	**12 J**	20 U	**13 J**	20 U
ICS-DOF-MW6-A	3 - 5'	**300**	26 U	100 U	**88 J**	100 U	100 U	**88 J**	100 U
ICS-DOF-MW6-B	6 - 8'	**78**	11 U	**29 J**	**62**	**62**	44 U	**31 J**	44 U
ICS-DOF-DUP2	dup of MW6-B	**180**	15 U	**70**	76 U	**120**	61 U	**42 J**	61 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry
Screening Level (a)		105,000	69,100	see BaPEq	9,380	see BaPEq	35,000	see BaPEq	see BaPEq
ICS-DOF-MW6-C	9 - 10'	19 U	4.7 U	19 U	23 U	19 U	19 U	37 U	19 U
ICS-DOF-MW7-A	3 - 4'	**530**	**130**	**250**	**400**	**220**	19 U	**240**	**150**
ICS-DOF-MW7-B	7 - 8'	19 U	4.8 U	19 U	24 U	19 U	19 U	38 U	19 U
ICS-DOF-MW7-C	11 - 12'	19 U	4.7 U	19 U	24 U	19 U	19 U	38 U	19 U
ICS-DOF-MW8-A	3 - 4'	19 U	4.7 U	19 U	**17 JB**	19 U	19 U	38 U	19 U
ICS-DOF-MW8-B	7 - 8'	19 U	4.8 U	19 U	**18 JB**	19 U	19 U	38 U	19 U
ICS-DOF-MW8-C	11 - 12'	20 U	4.9 U	20 U	**23 JB**	20 U	20 U	39 U	20 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	**16 J**	**7.7**	**12 J**	47 U	**12 J**	19 U	**23 J**	**12 J**
ICS-P11-SO-10	9.5 - 11'	**12 J**	**8.1**	19 U	**91**	19 U	19 U	**16 J**	19 U
ICS-P11-SO-16	15 - 17'	20 U	**2.7 J**	20 U	50 U	20 U	20 U	40 U	20 U
ICS-P12-SO-4	3 - 4.5'	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	19 U	**8**	19 U	47 U	19 U	19 U	**11 J**	19 U
ICS-P12-SO-13	12 - 14'	20 U	**3.1 J**	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P12-SO-16	15 - 17'	19 U	**5**	19 U	47 U	19 U	19 U	37 U	19 U
ICS-P13-SO-4	4 - 6'	**100**	**20**	**37**	**190**	**79**	20 U	**130**	**46**
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P13-SO-10	9.5 - 11'	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P13-SO-17	16.5 - 18'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P14-SO-4	3 - 5'	**57**	**10**	**24**	48 U	**39**	**9.5 J**	**50**	**23**
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	**250**	**9**	**70**	48 U	**100**	19 U	**100**	**37**
ICS-P14-SO-16	15 - 17'	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U
ICS-P15-SO-4	3 - 5'	**36**	**26**	**14 J**	**65**	**25**	20 U	**22 J**	20 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	20 U	**12**	20 U	49 U	20 U	20 U	**16 J**	20 U
ICS-P15-SO-16	15 - 17'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P16-SO-4	3 - 4'	**22**	4.9 U	**7.8 J**	49 U	**17 J**	20 U	**26 J**	20 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P16-SO-10	9 - 10'	20 U	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U
ICS-P16-SO-16	15 - 17'	20 U	**2.7 J**	20 U	49 U	20 U	20 U	39 U	20 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry
Screening Level (a)		105,000	69,100	see BaPEq	9,380	see BaPEq	35,000	see BaPEq	see BaPEq
ICS-P17-SO-4	4.5 - 6.5'	**52**	4.7 U	19 U	47 U	**30**	19 U	37 U	19 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	19 U	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	**12000**	**23**	**6800**	490 U	**8100**	200 U	**11000**	**7200**
ICS-P18-SO-7	6 - 8'	**330**	-----	**89**	-----	**130**	-----	**140**	**71**
ICS-P18-SO-10	9 - 10'	**360**	**22**	**75**	**200**	**99**	39 U	**75 J**	**39**
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	**1700**	**210**	**640**	**1100**	**1000**	84 U	**1200**	**570**
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-32	31 - 33'	**5.7 J**	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	**250**	5.4 U	**140**	**220**	**230**	22 U	**250**	**140**
ICS-P19-SO-10	9 - 10'	**19**	4.7 U	19 U	**35 J**	19 U	19 U	38 U	19 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	**9.7 J**	**5.3**	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	19 U	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U
ICS-P20-SO-10	9.5 - 11'	19 U	**2.7 J**	19 U	48 U	19 U	19 U	39 U	19 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	19 U	**3.6 J**	19 U	47 U	19 U	19 U	38 U	19 U
ICS-P21-SO-7	6 - 8'	**1000**	**130**	**350**	**970**	**460**	37 U	**500**	**310**
ICS-P21-SO-13	12 - 14'	**330**	8.6 U	**160**	**210**	**230**	34 U	**270**	**130**
ICS-P21-SO-16	15 - 17'	**9.6 J**	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	19 U	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U
ICS-P22-SO-4	3 - 4.5'	**33**	4.7 U	**11 J**	**28 J**	**16 J**	19 U	**23 J**	19 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P22-SO-10	9 - 11'	**14 J**	**5.5**	19 U	**28 J**	19 U	19 U	**16 J**	19 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry
Screening Level (a)		105,000	69,100	see BaPEq	9,380	see BaPEq	35,000	see BaPEq	see BaPEq
ICS-P22-SO-16	15 - 17'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P23-SO-3	2 - 4'	**56**	4.9 U	**31**	49 U	**50**	19 U	**91**	**33**
ICS-P23-SO-10	9.5 - 11	19 U	**5.2 JQ**	19 U	48 U	19 U	19 U	39 U	19 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	20 U	**4.8 J**	20 U	50 U	20 U	20 U	40 U	20 U
ICS-P24-SO-4	3 - 5'	**17 J**	**3.3 J**	18 U	46 U	**14 J**	18 U	**16 J**	18 U
ICS-P24-SO-10	9 - 10.5'	**180**	4.8 U	**50**	**390**	**150**	19 U	**170**	**100**
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P24-SO-16	15 - 17'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P25-SO-3	1 - 3'	**160**	**15 JQ**	**62**	**72 JB**	**95**	19 U	**150**	**76**
ICS-P25-SO-10	9 - 11'	19 U	**5.3 JQ**	19 U	47 U	19 U	19 U	37 U	19 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	19 U	**9.2 JQ**	19 U	47 U	19 U	19 U	38 U	19 U
ICS-P26-SO-4	3 - 5'	**110**	**4.7**	**45**	**31 J**	**64**	19 U	**83**	**47**
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	20 U	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U
ICS-P26-SO-16	15 - 17'	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P27-SO-3	1 - 3'	**56**	**8.0 JQ**	**20**	**48 JB**	**56**	19 U	**78**	**19**
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	19 U	4.8 U	19 U	**33 JB**	19 U	19 U	38 U	19 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P27-SO-32	31 - 33'	19 U	4.6 U	19 U	46 U	19 U	19 U	37 U	19 U
ICS-P28-SO-4	3 - 5'	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P28-SO-10	8.5 - 10'	20 U	**11**	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P28-SO-16	15 - 17'	18 U	4.6 U	18 U	46 U	18 U	18 U	37 U	18 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	19 U	4.6 U	19 U	46 U	19 U	19 U	37 U	19 U
ICS-P29-SO-4	3 - 4'	**1500**	58 U	**340**	**7600**	**660**	230 U	**310 J**	230 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	**90**	4.7 U	**16 J**	**34 J**	**26**	19 U	**20 J**	**7.5 J**
ICS-P29-SO-16	15 - 17'	**210**	4.7 U	**71**	47 U	**81**	19 U	**58**	**30**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry
Screening Level (a)		105,000	69,100	see BaPEq	9,380	see BaPEq	35,000	see BaPEq	see BaPEq
ICS-DUP2	P29-SO-16	**170**	4.7 U	**54**	47 U	**67**	19 U	**49**	**26**
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-32	31 - 33'	20 U	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	**1900**	**690**	**940**	**2400**	**1100**	44 U	**1400**	**1300**
ICS-P30-SO-10	9 - 10'	**490**	-----	**160**	-----	**220**	-----	**260**	**130**
ICS-P30-SO-13	12.5 - 13.5'	**790**	**140**	**280**	**660**	**420**	20 U	**420**	**240**
ICS-P30-SO-16	15 - 16.5'	**14**	**2.6**	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	**11**	**2.8**	**5.6**	46 U	**9.2**	18 U	**11**	18 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	19 U	**2.6 J**	19 U	47 U	19 U	19 U	37 U	19 U
ICS-P31-SO-10	9 - 11'	**39**	**3.4 J**	**13 J**	48 U	**17 J**	19 U	**20 J**	19 U
ICS-P31-SO-16	15 - 17'	20 U	**7**	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P31-SO-32	31 - 33'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P32-SO-16	16 - 17.5'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-SO-DUPL3	P32-SO-16	18 U	4.6 U	18 U	46 U	18 U	18 U	37 U	18 U
ICS-P32-SO-32	31 - 33'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P33-SO-16	15 - 17'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P33-SO-32	31 - 33'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P34-SO-4	3 - 5'	**47**	**9.5**	**34**	**120**	**46**	19 U	**110**	**43**
ICS-P34-SO-10	9 - 11'	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P34-SO-16	15 - 17'	**5.8 J**	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U
ICS-P35-SO-4	3 - 5'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-P35-SO-10	9 - 11'	19 U	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U
ICS-P35-SO-16	15 - 17'	**7.8 J**	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U
ICS-P36-SO-4	3 - 4'	19 U	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U
ICS-P36-SO-10	10 - 12'	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U
ICS-P36-SO-16	15 - 17'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	Pyrene µg/kg, dry	Butylbenzyl-phthalate µg/kg, dry	Benzo(a)-anthracene µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate µg/kg, dry	Chrysene µg/kg, dry	Di-n-octyl-phthalate µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene µg/kg, dry
Screening Level (a)		105,000	69,100	see BaPEq	9,380	see BaPEq	35,000	see BaPEq	see BaPEq
ICS-Ap-10-SO	9 - 10'	**6.6 J**	**6.1**	19 U	47 U	**7.5 J**	19 U	38 U	19 U
ICS-Bp-10-SO	9 - 10'	**12 J**	**6.1**	**5.8 J**	49 U	**6.8 J**	20 U	39 U	20 U
ICS-Cp-10-SO	9 - 10'	**60**	**6.5**	**21**	48 U	**27**	19 U	**33 J**	19 U
ICS-Du-10-SO	9 - 10'	**24**	4.7 U	19 U	47 U	**13 J**	19 U	**16 J**	19 U
ICS-Du-16-SO	15 - 17'	19 U	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U
ICS-FL-4-SO	3 - 5'	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U
ICS-FL-7-SO	6 - 8'	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U
ICS-FL-10-SO	9 - 10'	20 U	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U
ICS-FL-13-SO	12 - 14'	20 U	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U
ICS-FL-16-SO	15.5 - 17'	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U
ICS-FL-21-SO	20 - 22'	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U
ICS-Ju-4-SO	3 - 4'	**3700**	**6900**	**1100**	**44,000**	**1100**	**2200**	**1800**	**1400**
ICS-Ju-10-SO	10- 11'	**140**	**11**	**43**	**59**	**49**	20 U	**71**	**30**
ICS-Ju-15-SO	15 - 16	**62**	**4.5 J**	**29**	**35 J**	**32**	19 U	**36 J**	**14 J**
Number of Samples		140	137	140	137	140	137	140	140
Number of Detections		65	50	49	52	55	2	56	37
Percent Detected		46.4%	36.5%	35.0%	38.0%	39.3%	1.5%	40.0%	26.4%
Highest Conc.		23000	14000	13000	55000	14000	2200	18000	10000

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	BaPEq µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Level (a)		see BaPEq	see BaPEq	-----	-----	-----	18000	-----	-----	-----
ICS-LP1-SO-A	3 - 5'	**51**	**11 J**	**77**	**141**	**515**	**91**	2.5 U	2.5 U	2.5 U
ICS-LP1-SO-B	6.5 - 8'	**110**	63 U	**130**	**501**	**2690**	**318**	17 U	17 U	52 U
ICS-LP1-SO-C	10.5 - 12'	19 U	19 U	19 U	19 U	**20**	**nd**	0.47 U	0.47 U	0.47 U
ICS-LP2-SO-A	3 - 5'	**23**	18 U	**31**	**70**	**299**	**35**	0.47 U	0.47 U	0.47 U
ICS-LP2-SO-B	5.5 - 7.5'	19 U	19 U	19 U	**27.5**	38 U	**nd**	0.46 U	0.76 U	0.46 U
ICS-LP2-SO-C	8 - 10'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-LP3-SO-A	3 - 5'	**170**	**48**	**190**	**550**	**1356**	**252**	3.3 U	3.3 U	3.3 U
ICS-LP3-SO-B	6 - 8'	**4500**	**2300**	**4400**	**122600**	**121200**	**15990**	120 U	350 U	120 U
ICS-LP3-SO-C	10 - 12'	**16 J**	18 U	**19**	**686**	**504**	**53**	4.9 U	13 U	50 U
ICS-LP3-SO-D	15 - 16'	**22**	19 U	**26**	**520**	**476**	**55**	2.4 U	2.4 U	2.4 U
ICS-LP4-SO-A	8 - 10'	**99**	**34 J**	**120**	**2650**	**2843**	**306**	20 U	20 U	290 U
ICS-LP4-SO-B	10 - 12'	19 U	19 U	19 U	**875**	**524**	**55**	2.8 U	16 U	12 U
ICS-LP4-SO-C	14 - 15'	18 U	18 U	18 U	18 U	36 U	**nd**	0.46 U	0.46 U	0.46 U
ICS-DOF-MW1-A	4 - 5'	20 U	20 U	20 U	**926**	**120**	**3.4**	0.47 U	0.47 U	0.47 U
ICS-DOF-MW1-B	6.5 - 7.5'	19 U	19 U	19 U	19 U	38 U	**nd**	0.47 U	1.5 U	0.47 U
ICS-DOF-MW1-C	11 - 12'	19 U	19 U	19 U	19 U	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-DOF-MW2-A	2 - 3'	18 U	18 U	18 U	18 U	37 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-DOF-MW2-B	8 - 9'	19 U	19 U	19 U	19 U	38 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-DOF-MW2-C	12 - 13'	20 U	20 U	20 U	20 U	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-DOF-MW3-A	2 - 4'	19 U	19 U	19 U	19 U	38 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-DOF-DUP1	dup of MW3-A	19 U	19 U	19 U	19 U	38 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-DOF-MW3-B	7 - 8'	20 U	20 U	20 U	**42**	40 U	**nd**	0.46 U	0.46 U	0.46 U
ICS-DOF-MW4-A	3 - 4'	19 U	19 U	19 U	19 U	38 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-DOF-MW4-B	7 - 8'	19 U	19 U	19 U	**80**	**52**	**0.1**	0.48 U	0.48 U	0.48 U
ICS-DOF-MW4-C	10 - 11'	20 U	20 U	**12 J**	**151**	**236**	**19**	0.48 U	0.48 U	0.48 U
ICS-DOF-MW5-A	3 - 4'	18 U	18 U	18 U	**50**	**50**	**1.0**	0.46 U	0.46 U	0.46 U
ICS-DOF-MW5-B	7 - 8'	20 U	20 U	20 U	**143**	**102**	**2.5**	0.47 U	0.47 U	0.47 U
ICS-DOF-MW6-A	3 - 5'	100 U	100 U	100 U	**31100**	**487**	**8.8**	2.5 U	16 U	2.5 U
ICS-DOF-MW6-B	6 - 8'	44 U	44 U	44 U	**7520**	**247**	**6.6**	2.4 U	10 U	2.4 U
ICS-DOF-DUP2	dup of MW6-B	61 U	61 U	61 U	**15100**	**247**	**12**	2.4 U	8.5 U	2.4 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	BaPEq µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Level (a)		see BaPEq	see BaPEq	-----	-----	-----	18000	-----	-----	-----
ICS-DOF-MW6-C	9 - 10'	19 U	19 U	19 U	**61**	37 U	**nd**	13 U	4.5 U	0.50 U
ICS-DOF-MW7-A	3 - 4'	**52**	**15 J**	**100**	**2783**	**2137**	**221**	4.4 U	200 U	95 U
ICS-DOF-MW7-B	7 - 8'	19 U	19 U	19 U	**38**	38 U	**nd**	0.49 U	0.55 U	0.49 U
ICS-DOF-MW7-C	11 - 12'	19 U	19 U	19 U	**55**	38 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-DOF-MW8-A	3 - 4'	19 U	19 U	19 U	**11**	38 U	**nd**	0.46 U	0.46 U	0.46 U
ICS-DOF-MW8-B	7 - 8'	19 U	19 U	19 U	**1135**	**12**	**nd**	0.50 U	0.50 U	0.50 U
ICS-DOF-MW8-C	11 - 12'	20 U	20 U	20 U	**24**	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	**12 J**	19 U	**21**	**66**	**124**	**17**	0.46 U	0.46 U	0.46 U
ICS-P11-SO-10	9.5 - 11'	19 U	19 U	**11 J**	50.6	51	**1.6**	35 U	29 U	4.9 U
ICS-P11-SO-16	15 - 17'	20 U	20 U	20 U	20 U	40 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P12-SO-4	3 - 4.5'	20 U	20 U	20 U	20 U	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	19 U	19 U	**12 J**	19 U	19 U	**1.1**	0.49 U	0.49 U	0.49 U
ICS-P12-SO-13	12 - 14'	20 U	20 U	20 U	20 U	39 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P12-SO-16	15 - 17'	19 U	19 U	19 U	19 U	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P13-SO-4	4 - 6'	**48**	**13 J**	**58**	**163**	**592**	**81**	2.4 U	2.4 U	2.4 U
ICS-P13-SO-7	6 -8'	-----	-----	-----	-----	-----	-----	0.5 U	0.5 U	0.5 U
ICS-P13-SO-10	9.5 - 11'	20 U	20 U	20 U	20 U	39 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P13-SO-17	16.5 - 18'	19 U	19 U	19 U	19 U	38 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P14-SO-4	3 - 5'	**22**	**11 J**	**36**	**189**	**327**	**44**	0.48 U	0.48 U	0.48 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	**26**	**13 J**	**42**	**364**	**998**	**71**	0.49 U	0.49 U	0.49 U
ICS-P14-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P15-SO-4	3 - 5'	20 U	20 U	20 U	**98**	**127**	**3.9**	0.47 U	0.47 U	0.47 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	20 U	20 U	20 U	**160**	20 U	**1.6**	0.90 U	0.50 U	0.50 U
ICS-P15-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P16-SO-4	3 - 4'	**11 J**	20 U	**14 J**	**34**	**121.8**	**4.7**	4.8 U	4.8 U	4.8 U
ICS-P16-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	0.47 U	0.47 U	0.47 U
ICS-P16-SO-10	9 - 10'	20 U	20 U	20 U	20 U	40 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P16-SO-16	15 - 17'	20 U	20 U	20 U	20 U	39 U	**nd**	0.48 U	0.48 U	0.48 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	BaPEq µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Level (a)		see BaPEq	see BaPEq	-----	-----	-----	18000	-----	-----	-----
ICS-P17-SO-4	4.5 - 6.5'	19 U	19 U	19 U	**1069**	**117**	**0.30**	4.8 U	4.8 U	4.8 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	19 U	19 U	19 U	**24**	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	**3900**	**1700**	**3900**	**22498**	**66600**	**11151**	2.7 U	14 U	2.7 U
ICS-P18-SO-7	6 - 8'	**48**	19 U	**62**	**4684**	**1250**	**100**	0.48 U	0.85 U	0.48 U
ICS-P18-SO-10	9 - 10'	**21 J**	39 U	**33 J**	**3387**	**1182**	**57**	0.48 U	1.4 U	0.48 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	**180**	**80 J**	**180**	**5260**	**7250**	**862**	16 U	16 U	32 U
ICS-P18-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	0.48 U	0.48 U	0.48 U
ICS-P18-SO-32	31 - 33'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	**28**	**18 J**	**32**	**733**	**1318**	**202**	2.4 U	2.4 U	2.4 U
ICS-P19-SO-10	9 - 10'	19 U	19 U	19 U	**24.6**	38 U	**nd**	4.9 U	4.9 U	4.9 U
ICS-P19-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	0.49 U	0.49 U	0.49 U
ICS-P19-SO-16	15 - 17'	20 U	20 U	20 U	20 U	39 U	**nd**	0.50 U	0.50 U	0.50 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	19 U	19 U	19 U	**39**	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P20-SO-10	9.5 - 11'	19 U	19 U	19 U	19 U	39 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P21-SO-7	6 - 8'	**180**	**65**	**190**	**5710**	**4255**	**483**	4.7 U	4.7 U	4.7 U
ICS-P21-SO-13	12 - 14'	**79**	**40**	**74**	**688**	**1623**	**223**	4.8 U	4.8 U	4.8 U
ICS-P21-SO-16	15 - 17'	19 U	19 U	19 U	**29**	39 U	**nd**	0.50 U	0.50 U	0.50 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	19 U	19 U	19 U	**22**	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P22-SO-4	3 - 4.5'	19 U	19 U	19 U	**894**	**121**	**4**	0.47 U	0.47 U	0.47 U
ICS-P22-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	0.49 U	12 U	0.49 U
ICS-P22-SO-10	9 - 11'	19 U	19 U	19 U	**34**	**42**	**2**	0.50 U	0.50 U	0.50 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	BaPEq µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Level (a)		see BaPEq	see BaPEq	-----	-----	-----	18000	-----	-----	-----
ICS-P22-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P23-SO-3	2 - 4'	**40**	**14 J**	**45**	19 U	**428**	**64**	0.48 U	0.48 U	0.48 U
ICS-P23-SO-10	9.5 - 11	19 U	19 U	19 U	19 U	39 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P23-SO-13	12 - 14'	-----	-----	-----	-----	-----	**-----**	0.50 U	0.50 U	0.50 U
ICS-P23-SO-16	15 - 17'	20 U	20 U	20 U	20 U	40 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P24-SO-4	3 - 5'	18 U	18 U	18 U	19 U	**65**	**2**	0.50 U	0.50 U	0.50 U
ICS-P24-SO-10	9 - 10.5'	**30**	19 U	**22**	**1113**	**832**	**127**	2.5 U	8.5 U	2.5 U
ICS-P24-SO-13	12 - 14'	-----	-----	-----	-----	-----	**-----**	0.49 U	0.49 U	0.49 U
ICS-P24-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P25-SO-3	1 - 3'	**59**	**16 J**	**65**	**177**	**853**	**120**	2.4 U	2.4 U	2.4 U
ICS-P25-SO-10	9 - 11'	19 U	19 U	19 U	19 U	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	**-----**	-----	-----	-----
ICS-P25-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.54 U	0.48 U
ICS-P26-SO-4	3 - 5'	**29**	**13 J**	**39**	**167**	**519**	**76**	0.47 U	0.47 U	0.47 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	**-----**	-----	-----	-----
ICS-P26-SO-10	9 - 11'	20 U	20 U	20 U	20 U	40 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P26-SO-16	15 - 17'	20 U	20 U	20 U	20 U	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P27-SO-3	1 - 3'	**28**	**9.7 J**	**39**	**110**	**366.7**	**42**	2.5 U	2.5 U	2.5 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	**-----**	-----	-----	-----
ICS-P27-SO-11	9 - 11'	19 U	19 U	19 U	19 U	38 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P27-SO-13	12 - 14'	-----	-----	-----	-----	-----	**-----**	0.49 U	0.49 U	0.49 U
ICS-P27-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P27-SO-32	31 - 33'	19 U	19 U	19 U	19 U	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P28-SO-4	3 - 5'	20 U	20 U	20 U	**338**	39 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P28-SO-10	8.5 - 10'	20 U	20 U	20 U	**28**	39 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P28-SO-16	15 - 17'	18 U	18 U	18 U	18 U	37 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	**-----**	-----	-----	-----
ICS-P28-SO-32	31 - 33'	19 U	19 U	19 U	19 U	37 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P29-SO-4	3 - 4'	230 U	230 U	230 U	**4220**	**3910**	**72**	30 U	170 U	30 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	**nd**	-----	-----	-----
ICS-P29-SO-10	9 - 10'	19 U	19 U	19 U	**723**	**206.5**	**11**	4.9 U	4.9 U	4.9 U
ICS-P29-SO-16	15 - 17'	**11 J**	19 U	**16 J**	**1851**	**807**	**45**	0.98 U	1.6 U	0.98 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	BaPEq µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Level (a)		see BaPEq	see BaPEq	-----	-----	-----	18000	-----	-----	-----
ICS-DUP2	P29-SO-16	19 U	19 U	**11 J**	**1562**	**647**	**37**	0.98 U	1.5 U	0.98 U
ICS-P29-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	0.62 U	3.5 U	0.48 U
ICS-P29-SO-32	31 - 33'	20 U	20 U	20 U	20 U	40 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	**580**	**220**	**850**	**2001**	**9690**	**1823**	2.5 U	5.4 U	2.5 U
ICS-P30-SO-10	9 - 10'	**80**	**29**	**92**	**1448**	**1991**	**211**	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	**150**	**46**	**180**	**1152**	**3216**	**375**	2.5 U	5.9 U	2.5 U
ICS-P30-SO-16	15 - 16.5'	20 U	20 U	20 U	**43.8**	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	18 U	18 U	18 U	18 U	**46**	**1.8**	0.47 U	0.47 U	0.47 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	19 U	19 U	19 U	19 U	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P31-SO-10	9 - 11'	19 U	19 U	19 U	**42**	**137**	**3.5**	0.47 U	0.47 U	0.47 U
ICS-P31-SO-16	15 - 17'	20 U	20 U	20 U	20 U	39 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P31-SO-32	31 - 33'	19 U	19 U	19 U	19 U	38 U	**nd**	0.49 U	0.49 U	0.49 U
ICS-P32-SO-16	16 - 17.5'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-SO-DUPL3	P32-SO-16	18 U	18 U	18 U	18 U	37 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P32-SO-32	31 - 33'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P33-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.50 U	0.50 U	0.50 U
ICS-P33-SO-32	31 - 33'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P34-SO-4	3 - 5'	**30**	**15 J**	**30**	**39**	**392**	**76**	0.48 U	0.48 U	0.48 U
ICS-P34-SO-10	9 - 11'	20 U	20 U	20 U	20 U	39 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P34-SO-16	15 - 17'	19 U	19 U	19 U	19 U	39 U	**nd**	0.50 U	0.50 U	0.50 U
ICS-P35-SO-4	3 - 5'	19 U	19 U	**8.6 J**	19 U	38 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P35-SO-10	9 - 11'	19 U	19 U	19 U	19 U	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-P35-SO-16	15 - 17'	20 U	20 U	20 U	20 U	39 U	**nd**	0.95 U	0.95 U	0.95 U
ICS-P36-SO-4	3 - 4'	19 U	19 U	**6.5 J**	19 U	37 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-P36-SO-10	10 - 12'	19 U	19 U	19 U	19 U	38 U	**nd**	12 U	10 U	3.7 U
ICS-P36-SO-16	15 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	5.7 U	5.7 U	2.2 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Indeno(1,2,3-cd)pyrene µg/kg, dry	Dibenz(a,h)-anthracene µg/kg, dry	Benzo(g,h,i)-perylene µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	BaPEq µg/kg, dry	alpha-BHC µg/kg, dry	beta-BHC µg/kg, dry	delta-BHC µg/kg, dry
Screening Level (a)		see BaPEq	see BaPEq	-----	-----	-----	18000	-----	-----	-----
ICS-Ap-10-SO	9 - 10'	19 U	19 U	**11 J**	19 U	38 U	**0.08**	0.49 U	0.49 U	0.49 U
ICS-Bp-10-SO	9 - 10'	20 U	20 U	20 U	**20**	39 U	**0.65**	0.49 U	0.49 U	0.49 U
ICS-Cp-10-SO	9 - 10'	**15 J**	19 U	**21**	**168**	**251**	**7.2**	0.48 U	0.96 U	0.48 U
ICS-Du-10-SO	9 - 10'	19 U	19 U	19 U	**28.7**	**79**	**1.7**	0.49 U	0.49 U	0.49 U
ICS-Du-16-SO	15 - 17'	19 U	19 U	19 U	19 U	37 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-FL-4-SO	3 - 5'	19 U	19 U	19 U	19 U	38 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-FL-7-SO	6 - 8'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-FL-10-SO	9 - 10'	20 U	20 U	20 U	20 U	40 U	**nd**	0.50 U	0.50 U	0.50 U
ICS-FL-13-SO	12 - 14'	20 U	20 U	20 U	20 U	40 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-FL-16-SO	15.5 - 17'	19 U	19 U	19 U	19 U	38 U	**nd**	0.48 U	0.48 U	0.48 U
ICS-FL-21-SO	20 - 22'	20 U	20 U	20 U	20 U	39 U	**nd**	0.47 U	0.47 U	0.47 U
ICS-Ju-4-SO	3 - 4'	**180**	120 U	**210**	**14,500**	**12,490**	**1719**	29 U	130 U	29 U
ICS-Ju-10-SO	10- 11'	**21**	20 U	**30**	**246**	**514**	**44**	0.47 U	0.47 U	0.47 U
ICS-Ju-15-SO	15 - 16	19 U	19 U	19 U	**72.5**	**242**	**21**	0.50 U	0.50 U	0.50 U
Number of Samples		140	140	140	140	140	140	147	147	147
Number of Detections		34	21	40	71	58	60	0	0	0
Percent Detected		24.3%	15.0%	28.6%	50.7%	41.4%	42.9%	0.0%	0.0%	0
Highest Conc.		4500	2300	4400	122600	121200	15990	0	0	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry
Screening Level (a)		119	29.2	7.7	14.4	-----	8.2	386	1050	-----
ICS-LP1-SO-A	3 - 5'	2.5 U	2.5 U	2.5 U	4.9 U	2.5 U	4.9 U	4.9 U	4.9 U	4.9 U
ICS-LP1-SO-B	6.5 - 8'	17 U	19 U	17 U	180 U	17 U	96 U	**430**	34 U	86 U
ICS-LP1-SO-C	10.5 - 12'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-LP2-SO-A	3 - 5'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	2.7 U	0.94 U	1.4 U	3.7 U
ICS-LP2-SO-B	5.5 - 7.5'	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	0.92 U	0.92 U	0.92 U	0.92 U
ICS-LP2-SO-C	8 - 10'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-LP3-SO-A	3 - 5'	3.3 U	3.3 U	3.3 U	110 U	130 U	12 U	79 U	120 U	49 U
ICS-LP3-SO-B	6 - 8'	120 U	620 U	120 U	2400 U	120 U	240 U	**2900 JP**	1200 U	1000 U
ICS-LP3-SO-C	10 - 12'	4.9 U	20 U	4.9 U	70 U	4.9 U	56 U	**170 JP**	47 U	9.8 U
ICS-LP3-SO-D	15 - 16'	2.4 U	28 U	2.4 U	28 U	2.4 U	17 U	**50 J**	4.9 U	4.9 U
ICS-LP4-SO-A	8 - 10'	20 U	120 U	20 U	220 U	20 U	41 U	**380 JP**	250 U	130 U
ICS-LP4-SO-B	10 - 12'	2.8 U	12 U	2.8 U	46 U	2.8 U	20 U	**94 JP**	30 U	16 U
ICS-LP4-SO-C	14 - 15'	0.46 U	0.46 U	0.46 U	0.91 U	0.46 U	0.91 U	**5.6**	0.91 U	0.91 U
ICS-DOF-MW1-A	4 - 5'	0.47 U	0.47 U	0.47 U	3.9 U	0.47 U	12 U	0.94 U	25 U	0.94 U
ICS-DOF-MW1-B	6.5 - 7.5'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-DOF-MW1-C	11 - 12'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	2.0 U	0.97 U
ICS-DOF-MW2-A	2 - 3'	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-DOF-MW2-B	8 - 9'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-DOF-MW2-C	12 - 13'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-DOF-MW3-A	2 - 4'	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-DOF-DUP1	dup of MW3-A	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-DOF-MW3-B	7 - 8'	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	0.92 U	0.92 U	0.92 U	0.92 U
ICS-DOF-MW4-A	3 - 4'	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-DOF-MW4-B	7 - 8'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-DOF-MW4-C	10 - 11'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-DOF-MW5-A	3 - 4'	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	0.92 U	0.92 U	0.92 U	0.92 U
ICS-DOF-MW5-B	7 - 8'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-DOF-MW6-A	3 - 5'	2.5 U	2.5 U	2.5 U	4.9 U	2.5 U	4.9 U	4.9 U	4.9 U	19 U
ICS-DOF-MW6-B	6 - 8'	2.4 U	2.4 U	2.4 U	10 U	2.4 U	36 U	4.8 U	48 U	68 U
ICS-DOF-DUP2	dup of MW6-B	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U	33 U	4.8 U	44 U	27 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry
Screening Level (a)		119	29.2	7.7	14.4	-----	8.2	386	1050	-----
ICS-DOF-MW6-C	9 - 10'	0.50 U	0.50 U	0.50 U	0.99 U	6.0 U	0.99 U	0.99 U	2.0 U	3.1 U
ICS-DOF-MW7-A	3 - 4'	4.4 U	4.4 U	4.4 U	15 U	40 U	8.8 U	**23 JP**	8.8 U	8.8 U
ICS-DOF-MW7-B	7 - 8'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	1.8 U
ICS-DOF-MW7-C	11 - 12'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-DOF-MW8-A	3 - 4'	0.46 U	0.46 U	**0.68**	0.93 U	0.46 U	0.93 U	0.93 U	0.93 U	0.93 U
ICS-DOF-MW8-B	7 - 8'	0.50 U	0.50 U	**1.2**	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-DOF-MW8-C	11 - 12'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	0.46 U	0.46 U	0.46 U	0.93 U	0.46 U	0.93 U	0.93 U	0.93 U	0.93 U
ICS-P11-SO-10	9.5 - 11'	85 U	4.9 U	4.9 U	9.7 U	4.9 U	9.7 U	9.7 U	9.7 U	9.7 U
ICS-P11-SO-16	15 - 17'	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P12-SO-4	3 - 4.5'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P12-SO-13	12 - 14'	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P12-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P13-SO-4	4 - 6'	2.4 U	2.4 U	2.4 U	18 U	2.4 U	4.9 U	4.9 U	6.6 U	4.9 U
ICS-P13-SO-7	6 -8'	0.5 U	0.5 U	0.5 U	0.99 U	0.5 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P13-SO-10	9.5 - 11'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P13-SO-17	16.5 - 18'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P14-SO-4	3 - 5'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P14-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P15-SO-4	3 - 5'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P15-SO-16	15 - 17'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P16-SO-4	3 - 4'	4.8 U	4.8 U	4.8 U	9.6 U	4.8 U	**250 JP**	9.6 U	9.6 U	9.6 U
ICS-P16-SO-7	6 - 8'	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P16-SO-10	9 - 10'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P16-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry
Screening Level (a)		119	29.2	7.7	14.4	-----	8.2	386	1050	-----
ICS-P17-SO-4	4.5 - 6.5'	4.8 U	4.8 U	4.8 U	84 U	4.8 U	650 U	48 U	220 U	9.6 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	9.3 U	18 U	2.7 U	33 U	2.7 U	9.9 U	**41 JP**	5.4 U	5.4 U
ICS-P18-SO-7	6 - 8'	0.48 U	0.69 U	0.48 U	19 U	0.48 U	7.8 U	14 U	4.0 U	7.4 U
ICS-P18-SO-10	9 - 10'	0.48 U	0.48 U	0.48 U	7.0 U	0.91 U	0.96 U	4.3 U	0.96 U	0.96 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	16 U	16 U	16 U	70 U	16 U	32 U	**280**	32 U	32 U
ICS-P18-SO-22	21 - 23'	0.48 U	0.48 U	0.48 U	1.6 U	0.48 U	0.96 U	**2.9**	0.96 U	0.96 U
ICS-P18-SO-32	31 - 33'	0.48 U	0.48 U	0.48 U	0.96 U	1.2 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	2.4 U	2.4 U	2.4 U	12 U	2.4 U	4.9 U	4.9 U	4.9 U	4.9 U
ICS-P19-SO-10	9 - 10'	4.9 U	6.4 U	4.9 U	9.8 U	4.9 U	12 U	**60**	9.8 U	9.8 U
ICS-P19-SO-13	12 - 14'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P19-SO-16	15 - 17'	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P20-SO-10	9.5 - 11'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P21-SO-7	6 - 8'	4.7 U	36 U	4.7 U	47 U	4.7 U	57 U	**130 JP**	62 U	31 U
ICS-P21-SO-13	12 - 14'	4.8 U	12 U	4.8 U	28 U	4.8 U	41 U	**98 JP**	9.6 U	9.6 U
ICS-P21-SO-16	15 - 17'	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P22-SO-4	3 - 4.5'	0.47 U	0.54 U	0.47 U	1.3 U	0.47 U	2.9 U	**1.9 JP**	1.6 U	0.94 U
ICS-P22-SO-7	6 - 8'	**3.9**	1.2 U	0.49 U	8.1 U	0.49 U	0.98 U	8.2 U	18 U	4.2 U
ICS-P22-SO-10	9 - 11'	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry
Screening Level (a)		119	29.2	7.7	14.4	-----	8.2	386	1050	-----
ICS-P22-SO-16	15 - 17'	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P23-SO-3	2 - 4'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	6.4 U	2.1 U	2.7 U	0.96 U
ICS-P23-SO-10	9.5 - 11	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	**1.5**	0.94 U	0.94 U
ICS-P23-SO-13	12 - 14'	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P23-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P24-SO-4	3 - 5'	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P24-SO-10	9 - 10.5'	2.5 U	10 U	2.5 U	50 U	14 U	50 U	**140**	18 U	49 U
ICS-P24-SO-13	12 - 14'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P24-SO-16	15 - 17'	0.49 U	0.49 U	0.49 U	2.2 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P25-SO-3	1 - 3'	2.4 U	2.4 U	2.4 U	16 U	2.4 U	49 U	4.8 U	29 U	4.8 U
ICS-P25-SO-10	9 - 11'	0.48 U	0.48 U	0.48 U	3.7 U	0.48 U	10 U	4.0 U	8.9 U	0.96 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P26-SO-4	3 - 5'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	1.9 U	0.94 U	0.94 U	0.94 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P26-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P27-SO-3	1 - 3'	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	**87**	5.0 U	5.0 U	5.0 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	**1.6**	0.95 U	0.95 U	0.95 U
ICS-P27-SO-13	12 - 14'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P27-SO-16	15 - 17'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P27-SO-32	31 - 33'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P28-SO-4	3 - 5'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P28-SO-10	8.5 - 10'	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P28-SO-16	15 - 17'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P29-SO-4	3 - 4'	47 U	140 U	30 U	390 U	30 U	97 U	250 U	61 U	200 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	4.9 U	6.0 U	4.9 U	21 U	4.9 U	9.7 U	**14**	9.7 U	9.7 U
ICS-P29-SO-16	15 - 17'	0.98 U	1.8 U	0.98 U	8.3 U	0.98 U	2.0 U	**27 JP**	2.0 U	3.8 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry
Screening Level (a)		119	29.2	7.7	14.4	-----	8.2	386	1050	-----
ICS-DUP2	P29-SO-16	0.98 U	1.8 U	0.98 U	7.3 U	0.98 U	2.0 U	**24 JP**	2.0 U	3.1 U
ICS-P29-SO-22	21 - 23'	1.7 U	5.4 U	7.1 U	9.6 U	0.48 U	4.8 U	**220**	9.6 U	5.6 U
ICS-P29-SO-32	31 - 33'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	2.5 U	7.1 U	2.5 U	4.9 U	2.5 U	4.9 U	**28**	4.9 U	4.9 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	2.5 U	5.7 U	2.5 U	5.0 U	2.5 U	5.0 U	**23**	5.0 U	5.0 U
ICS-P30-SO-16	15 - 16.5'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	1.8 U	0.94 U	0.94 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P31-SO-10	9 - 11'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P31-SO-16	15 - 17'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P31-SO-32	31 - 33'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P32-SO-16	16 - 17.5'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-SO-DUPL3	P32-SO-16	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P32-SO-32	31 - 33'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P33-SO-16	15 - 17'	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P33-SO-32	31 - 33'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-P34-SO-4	3 - 5'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	2.7 U	0.95 U	6.9 U	0.95 U
ICS-P34-SO-10	9 - 11'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-P34-SO-16	15 - 17'	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-P35-SO-4	3 - 5'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-P35-SO-10	9 - 11'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-P35-SO-16	15 - 17'	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P36-SO-4	3 - 4'	0.47 U	0.47 U	0.47 U	0.93 U	0.47 U	0.93 U	0.93 U	0.93 U	0.93 U
ICS-P36-SO-10	10 - 12'	0.49 U	0.49 U	0.49 U	4.1 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-P36-SO-16	15 - 17'	3.8 U	0.49 U	1.4 U	3.1 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	gamma-BHC (Lindane) µg/kg, dry	Heptachlor µg/kg, dry	Aldrin µg/kg, dry	Heptachlor epoxide µg/kg, dry	Endosulfan I µg/kg, dry	Dieldrin µg/kg, dry	4,4'-DDE µg/kg, dry	Endrin µg/kg, dry	Endosulfan II µg/kg, dry
Screening Level (a)		119	29.2	7.7	14.4	-----	8.2	386	1050	-----
ICS-Ap-10-SO	9 - 10'	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U
ICS-Bp-10-SO	9 - 10'	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U
ICS-Cp-10-SO	9 - 10'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-Du-10-SO	9 - 10'	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-Du-16-SO	15 - 17'	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U
ICS-FL-4-SO	3 - 5'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-FL-7-SO	6 - 8'	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U
ICS-FL-10-SO	9 - 10'	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-FL-13-SO	12 - 14'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-FL-16-SO	15.5 - 17'	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U
ICS-FL-21-SO	20 - 22'	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U
ICS-Ju-4-SO	3 - 4'	29 U	130 U	29 U	58 U	29 U	58 U	400 U	77 U	380 U
ICS-Ju-10-SO	10- 11'	0.47 U	0.47 U	0.47 U	1.6 U	0.47 U	0.95 U	**3.8**	0.95 U	0.95 U
ICS-Ju-15-SO	15 - 16	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U
Number of Samples		147	147	147	147	147	147	147	147	147
Number of Detections		1	0	2	0	0	3	24	0	0
Percent Detected		0.7%	0.0%	1.4%	0.0%	0.0%	2.0%	16.3%	0.0%	0.0%
Highest Conc.		3.9	0	1.2	0	0	250	2900	0	0

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

ICS/NW Cooperage Site
Seattle, Washington

Sample Location	Depth (feet)	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxy-chlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlor-dane µg/kg, dry	Toxa-phene µg/kg, dry	Hexachloro-benzene µg/kg, dry
Screening Level (a)		547	-----	386	17,500	-----	-----	-----	-----	119	82
ICS-LP1-SO-A	3 - 5'	4.9 U	4.9 U	4.9 U	25 U	4.9 U	4.9 U	2.5 U	2.5 U	490 U	4.9 U
ICS-LP1-SO-B	6.5 - 8'	**1000**	34 U	270 U	170 U	120 U	74 U	83 U	17 U	3400 U	34 U
ICS-LP1-SO-C	10.5 - 12'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U
ICS-LP2-SO-A	3 - 5'	0.94 U	0.94 U	4.6 U	4.7 U	4.2 U	2.3 U	0.47 U	0.47 U	94 U	0.94 U
ICS-LP2-SO-B	5.5 - 7.5'	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.46 U	0.46 U	92 U	0.92 U
ICS-LP2-SO-C	8 - 10'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U
ICS-LP3-SO-A	3 - 5'	6.7 U	6.7 U	180 U	33 U	6.7 U	17 U	38 U	3.3 U	670 U	6.7 U
ICS-LP3-SO-B	6 - 8'	**3000 JP**	240 U	2900 U	1200 U	240 U	810 U	690 U	120 U	24,000 U	240 U
ICS-LP3-SO-C	10 - 12'	**56 JP**	9.8 U	62 U	49 U	30 U	18 U	26 U	4.9 U	980 U	9.8 U
ICS-LP3-SO-D	15 - 16'	**24 J**	4.9 U	35 U	24 U	20 U	4.9 U	2.4 U	2.4 U	120 U	4.9 U
ICS-LP4-SO-A	8 - 10'	**970**	41 U	450 U	200 U	41 U	210 U	20 U	20 U	4100 U	41 U
ICS-LP4-SO-B	10 - 12'	**60 JP**	5.5 U	56 U	28 U	5.5 U	20 U	9.8 U	2.8 U	550 U	21 U
ICS-LP4-SO-C	14 - 15'	**2.7**	0.91 U	2.5 U	4.6 U	0.91 U	0.91 U	0.46 U	0.46 U	91 U	0.91 U
ICS-DOF-MW1-A	4 - 5'	4.6 U	0.94 U	42 U	4.7 U	31 U	17 U	0.47 U	0.47 U	94 U	0.94 U
ICS-DOF-MW1-B	6.5 - 7.5'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U
ICS-DOF-MW1-C	11 - 12'	0.97 U	0.97 U	3.2 U	4.8 U	0.97 U	1.4 U	0.48 U	0.48 U	97 U	0.97 U
ICS-DOF-MW2-A	2 - 3'	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	97 U	0.97 U
ICS-DOF-MW2-B	8 - 9'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U
ICS-DOF-MW2-C	12 - 13'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U
ICS-DOF-MW3-A	2 - 4'	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	95 U	0.95 U
ICS-DOF-DUP1	dup of MW3-A	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	1.2 U	0.47 U	94 U	0.94 U
ICS-DOF-MW3-B	7 - 8'	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.46 U	0.46 U	92 U	0.92 U
ICS-DOF-MW4-A	3 - 4'	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	95 U	0.95 U
ICS-DOF-MW4-B	7 - 8'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U
ICS-DOF-MW4-C	10 - 11'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	97 U	0.97 U
ICS-DOF-MW5-A	3 - 4'	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.46 U	0.46 U	92 U	0.92 U
ICS-DOF-MW5-B	7 - 8'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U
ICS-DOF-MW6-A	3 - 5'	4.9 U	4.9 U	10 U	25 U	4.9 U	4.9 U	7.4 U	11 U	490 U	4.9 U
ICS-DOF-MW6-B	6 - 8'	4.8 U	4.8 U	72 U	24 U	4.8 U	43 U	7.5 U	11 U	480 U	4.8 U
ICS-DOF-DUP2	dup of MW6-B	4.8 U	4.8 U	67 U	24 U	59 U	41 U	9.1 U	14 U	480 U	4.8 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxy-chlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlor-dane µg/kg, dry	Toxa-phene µg/kg, dry	Hexachloro-benzene µg/kg, dry
Screening Level (a)		547	-----	386	17,500	-----	-----	-----	-----	119	82
ICS-DOF-MW6-C	9 - 10'	0.99 U	0.99 U	2.5 U	5.0 U	0.99 U	8.5 U	0.50 U	0.50 U	99 U	0.99 U
ICS-DOF-MW7-A	3 - 4'	8.8 U	8.8 U	22 U	44 U	23 U	22 U	13 U	4.4 U	880 U	**34**
ICS-DOF-MW7-B	7 - 8'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	98 U	0.98 U
ICS-DOF-MW7-C	11 - 12'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	98 U	0.98 U
ICS-DOF-MW8-A	3 - 4'	**1.7**	0.93 U	0.93 U	4.6 U	0.93 U	0.93 U	0.46 U	0.46 U	93 U	0.93 U
ICS-DOF-MW8-B	7 - 8'	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	99 U	0.99 U
ICS-DOF-MW8-C	11 - 12'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	0.93 U	0.93 U	0.93 U	4.6 U	0.93 U	0.93 U	0.46 U	0.46 U	23 U	0.93 U
ICS-P11-SO-10	9.5 - 11'	9.7 U	9.7 U	9.7 U	49 U	9.7 U	9.7 U	4.9 U	4.9 U	240 U	9.7 U
ICS-P11-SO-16	15 - 17'	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U	0.99 U	0.49 U	0.49 U	25 U	0.99 U
ICS-P12-SO-4	3 - 4.5'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P12-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P12-SO-10	9.8 - 11'	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	24 U	0.97 U
ICS-P12-SO-13	12 - 14'	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	24 U	0.95 U
ICS-P12-SO-16	15 - 17'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P13-SO-4	4 - 6'	**120 JP**	4.9 U	57 U	24 U	17 U	4.9 U	2.4 U	2.4 U	120 U	4.9 U
ICS-P13-SO-7	6 -8'	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.05 U	0.5 U	25 U	0.99 U
ICS-P13-SO-10	9.5 - 11'	0.94 U	0.94 U	0.94 U	4.7 U	1.2 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P13-SO-17	16.5 - 18'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U	0.98 U
ICS-P14-SO-4	3 - 5'	0.95 U	2.4 U	0.95 U	4.8 U	1.4 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-P14-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P14-SO-10	10 - 11.5'	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U	0.99 U	0.49 U	0.49 U	25 U	0.99 U
ICS-P14-SO-16	15 - 17'	0.95 U	0.95 U	0.48 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-P15-SO-4	3 - 5'	0.94 U	0.94 U	1.5 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	23 U	0.94 U
ICS-P15-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P15-SO-10	8.5 - 10'	1.0 U	2.2 U	1.0 U	5.0 U	1.0 U	1.0 U	0.50 U	0.50 U	25 U	1.8 U
ICS-P15-SO-16	15 - 17'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U	0.98 U
ICS-P16-SO-4	3 - 4'	9.6 U	9.6 U	14 U	48 U	9.6 U	9.6 U	4.8 U	4.8 U	240 U	9.6 U
ICS-P16-SO-7	6 - 8'	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	24 U	0.95 U
ICS-P16-SO-10	9 - 10'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-P16-SO-16	15 - 17'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxy-chlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlor-dane µg/kg, dry	Toxa-phene µg/kg, dry	Hexachloro-benzene µg/kg, dry
Screening Level (a)		547	-----	386	17,500	-----	-----	-----	-----	119	82
ICS-P17-SO-4	4.5 - 6.5'	9.6 U	48 U	1600 U	240 U	9.6 U	48 U	4.8 U	4.8 U	240 U	21 U
ICS-P17-SO-7	6.7 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-10	9 - 11'	0.96 U	0.96 U	6.1 U	4.8 U	4.3 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P17-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P17-SO-16	15 - 17'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-P17-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-4	3 - 5'	**71 JP**	5.4 U	27 U	27 U	5.4 U	5.4 U	2.7 U	2.7 U	140 U	5.4 U
ICS-P18-SO-7	6 - 8'	20 U	2.0 U	29 U	4.8 U	6.9 U	3.6 U	3.6 U	13 U	24 U	0.96 U
ICS-P18-SO-10	9 - 10'	**8 JP**	0.96 U	6.3 U	12 U	2.2 U	3.4 U	1.0 U	1.2 U	24 U	0.96 U
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	**450 JP**	32 U	280 U	160 U	100 U	32 U	16 U	16 U	790 U	32 U
ICS-P18-SO-22	21 - 23'	0.96 U	0.96 U	2.6 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P18-SO-32	31 - 33'	0.96 U	21 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P18-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-4	3 - 4'	**35 JP**	4.9 U	18 U	24 U	4.9 U	4.9 U	2.4 U	2.4 U	120 U	4.9 U
ICS-P19-SO-10	9 - 10'	**61 JP**	9.8 U	16 U	49 U	9.8 U	9.8 U	4.9 U	4.9 U	240 U	9.8 U
ICS-P19-SO-13	12 - 14'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U	0.98 U
ICS-P19-SO-16	15 - 17'	1.0 U	1.0 U	3.3 U	5.0 U	1.0 U	1.0 U	0.50 U	0.50 U	25 U	**1.4**
ICS-P19-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-3	2 - 4'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-P20-SO-10	9.5 - 11'	0.94 U	0.94 U	1.3 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P20-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P20-SO-16	15 - 17'	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	24 U	0.97 U
ICS-P21-SO-7	6 - 8'	**290 JP**	21 U	130 U	47 U	72 U	9.4 U	4.7 U	4.7 U	230 U	9.4 U
ICS-P21-SO-13	12 - 14'	**120 JP**	9.6 U	78 U	48 U	25 U	9.6 U	28 U	4.8 U	240 U	9.6 U
ICS-P21-SO-16	15 - 17'	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	25 U	0.99 U
ICS-P21-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P21-SO-32	31 - 33'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-P22-SO-4	3 - 4.5'	**15 JP**	4.6 U	7.8 U	4.7 U	5.1 U	3.8 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P22-SO-7	6 - 8'	15 U	0.98 U	15 U	4.9 U	14 U	9.4 U	8.9 U	8.9 U	24 U	2.6 U
ICS-P22-SO-10	9 - 11'	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	2.6 U	25 U	0.99 U
ICS-P22-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxy-chlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlor-dane µg/kg, dry	Toxa-phene µg/kg, dry	Hexachloro-benzene µg/kg, dry
Screening Level (a)		547	-----	386	17,500	-----	-----	-----	-----	119	82
ICS-P22-SO-16	15 - 17'	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U	0.99 U	0.49 U	0.49 U	25 U	0.99 U
ICS-P23-SO-3	2 - 4'	0.96 U	0.96 U	26 U	4.8 U	40 U	18 U	0.48 U	0.48 U	24 U	**2.1**
ICS-P23-SO-10	9.5 - 11	**2.5 JP**	0.94 U	2.5 U	4.7 U	2.5 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P23-SO-13	12 - 14'	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	0.50 U	0.50 U	25 U	1.0 U
ICS-P23-SO-16	15 - 17'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P24-SO-4	3 - 5'	1.0 U	1.0 U	7.3 U	11 U	3.4 U	1.6 U	0.97 U	1.6 U	25 U	1.0 U
ICS-P24-SO-10	9 - 10.5'	**480 JP**	5.0 U	140 U	200 U	50 U	44 U	8.9 U	7.0 U	120 U	5.0 U
ICS-P24-SO-13	12 - 14'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	25 U	0.98 U
ICS-P24-SO-16	15 - 17'	0.98 U	33 U	0.98 U	4.9 U	2.4 U	2.6 U	0.49 U	0.49 U	24 U	0.98 U
ICS-P25-SO-3	1 - 3'	4.8 U	4.8 U	130 U	24 U	94 U	37 U	6.0 U	15 U	120 U	4.8 U
ICS-P25-SO-10	9 - 11'	0.96 U	0.96 U	19 U	4.8 U	16 U	5.0 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P25-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P25-SO-16	15 - 17'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-P26-SO-4	3 - 5'	0.94 U	0.94 U	6.2 U	4.7 U	5.0 U	0.94 U	0.53 U	1.1 U	23 U	0.94 U
ICS-P26-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P26-SO-10	9 - 11'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-P26-SO-16	15 - 17'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-P27-SO-3	1 - 3'	5.0 U	5.0 U	10 U	25 U	5.0 U	5.0 U	**25**	**29**	120 U	5.0 U
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	24 U	0.95 U
ICS-P27-SO-13	12 - 14'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U	0.98 U
ICS-P27-SO-16	15 - 17'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-P27-SO-32	31 - 33'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P28-SO-4	3 - 5'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.54 U	0.47 U	24 U	0.94 U
ICS-P28-SO-10	8.5 - 10'	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	24 U	0.97 U
ICS-P28-SO-16	15 - 17'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P28-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P28-SO-32	31 - 33'	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	24 U	0.95 U
ICS-P29-SO-4	3 - 4'	61 U	61 U	590 U	300 U	61 U	61 U	30 U	83 U	1500 U	61 U
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	9.7 U	9.7 U	34 U	49 U	9.7 U	9.7 U	4.9 U	4.9 U	240 U	9.7 U
ICS-P29-SO-16	15 - 17'	2.0 U	2.0 U	10 U	9.8 U	2.0 U	2.0 U	0.98 U	0.98 U	49 U	2.0 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxy-chlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlor-dane µg/kg, dry	Toxa-phene µg/kg, dry	Hexachloro-benzene µg/kg, dry
Screening Level (a)		547	-----	386	17,500	-----	-----	-----	-----	119	82
ICS-DUP2	P29-SO-16	2.0 U	2.0 U	8.0 U	9.8 U	2.0 U	2.0 U	0.98 U	0.98 U	49 U	2.0 U
ICS-P29-SO-22	21 - 23'	0.96 U	5.6 U	16 U	48 U	9.3 U	0.96 U	7.7 U	2.4 U	24 U	0.96 U
ICS-P29-SO-32	31 - 33'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P29-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-7	6 - 7'	**17**	4.9 U	29 U	25 U	15 U	4.9 U	2.5 U	2.5 U	120 U	13 U
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	**15**	5.0 U	24 U	25 U	15 U	5.0 U	2.5 U	2.5 U	120 U	5.0 U
ICS-P30-SO-16	15 - 16.5'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-P30-SO-22	21 - 23'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-32	31 - 33'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P30-SO-42	41 - 43'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-50	49 - 50'	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P31-SO-4	3 - 4'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P31-SO-10	9 - 11'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P31-SO-16	15 - 17'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P31-SO-32	31 - 33'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U	0.98 U
ICS-P32-SO-16	16 - 17.5'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-SO-DUPL3	P32-SO-16	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P32-SO-32	31 - 33'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P33-SO-16	15 - 17'	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	25 U	0.99 U
ICS-P33-SO-32	31 - 33'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-P34-SO-4	3 - 5'	0.95 U	0.95 U	6.4 U	4.8 U	3.5 U	2.3 U	**2.5**	**2.1**	24 U	0.95 U
ICS-P34-SO-10	9 - 11'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-P34-SO-16	15 - 17'	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	25 U	0.99 U
ICS-P35-SO-4	3 - 5'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-P35-SO-10	9 - 11'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-P35-SO-16	15 - 17'	1.9 U	1.9 U	1.9 U	9.5 U	1.9 U	1.9 U	0.95 U	0.95 U	48 U	1.9 U
ICS-P36-SO-4	3 - 4'	0.93 U	0.93 U	0.93 U	4.7 U	0.93 U	0.93 U	0.47 U	0.47 U	23 U	0.93 U
ICS-P36-SO-10	10 - 12'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	2.9 U	0.49 U	24 U	5.4 U
ICS-P36-SO-16	15 - 17'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	2.1 U	0.49 U	25 U	4.6 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	4,4'-DDD µg/kg, dry	Endosulfan sulfate µg/kg, dry	4,4'-DDT µg/kg, dry	Methoxy-chlor µg/kg, dry	Endrin ketone µg/kg, dry	Endrin aldehyde µg/kg, dry	trans-Chlordane µg/kg, dry	cis-Chlor-dane µg/kg, dry	Toxa-phene µg/kg, dry	Hexachloro-benzene µg/kg, dry
Screening Level (a)		547	-----	386	17,500	-----	-----	-----	-----	119	82
ICS-Ap-10-SO	9 - 10'	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U	0.98 U
ICS-Bp-10-SO	9 - 10'	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U	0.99 U	0.49 U	0.49 U	25 U	0.99 U
ICS-Cp-10-SO	9 - 10'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-Du-10-SO	9 - 10'	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	24 U	0.97 U
ICS-Du-16-SO	15 - 17'	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U
ICS-FL-4-SO	3 - 5'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	23 U	0.94 U
ICS-FL-7-SO	6 - 8'	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U
ICS-FL-10-SO	9 - 10'	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	0.50 U	0.50 U	25 U	1.0 U
ICS-FL-13-SO	12 - 14'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-FL-16-SO	15.5 - 17'	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U
ICS-FL-21-SO	20 - 22'	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U
ICS-Ju-4-SO	3 - 4'	370 U	140 U	720 U	400 U	410 U	220 U	**460**	**500 J**	1400 U	110 U
ICS-Ju-10-SO	10- 11'	**4.4**	0.95 U	3.4 U	4.7 U	2.4 U	0.95 U	0.47 U	0.47 U	24 U	0.95 U
ICS-Ju-15-SO	15 - 16	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	25 U	0.99 U
Number of Samples		147	147	147	147	147	147	147	147	147	147
Number of Detections		22	0	0	0	0	0	3	3	0	3
Percent Detected		15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	2.0%	0.0%	2.0%
Highest Conc.		3000	0	0	0	0	0	460	500	0	34

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Level (a)		1680	-----	-----	-----	-----	-----	-----	-----	10,000
ICS-LP1-SO-A	3 - 5'	4.9 U	3.8 U	3.8 U	**17**	**26**	**49**	3.8 U	3.8 U	**92**
ICS-LP1-SO-B	6.5 - 8'	34 U	140 U	140 U	**4100**	**4600**	**1900**	140 U	140 U	**10600**
ICS-LP1-SO-C	10.5 - 12'	0.94 U	3.9 U	3.9 U	**10**	**12**	**12**	3.9 U	3.9 U	**34**
ICS-LP2-SO-A	3 - 5'	0.94 U	3.8 U	3.8 U	3.8 U	**16**	**33**	3.8 U	3.8 U	**49**
ICS-LP2-SO-B	5.5 - 7.5'	0.92 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-LP2-SO-C	8 - 10'	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-LP3-SO-A	3 - 5'	6.7 U	130 U	130 U	1900 U	**3300**	520 U	130 U	130 U	**3300**
ICS-LP3-SO-B	6 - 8'	240 U	980 U	980 U	**53000**	**36000**	**24000**	980 U	980 U	**113000**
ICS-LP3-SO-C	10 - 12'	9.8 U	37 U	37 U	**1000**	**760**	**310**	37 U	37 U	**2070**
ICS-LP3-SO-D	15 - 16'	4.9 U	39 U	39 U	**460**	**380**	**210**	39 U	39 U	**1050**
ICS-LP4-SO-A	8 - 10'	41 U	200 U	200 U	**7400**	**4000**	**3900**	200 U	200 U	**15300**
ICS-LP4-SO-B	10 - 12'	5.5 U	55 U	55 U	**810**	**780**	**560**	55 U	55 U	**2150**
ICS-LP4-SO-C	14 - 15'	0.91 U	3.8 U	3.8 U	**31**	**21**	**12**	3.8 U	3.8 U	**64**
ICS-DOF-MW1-A	4 - 5'	0.94 U	3.7 U	3.7 U	9.3 U	83 U	**470**	3.7 U	3.7 U	**470**
ICS-DOF-MW1-B	6.5 - 7.5'	0.94 U	3.8 U	3.8 U	3.8 U	**5.8**	**9.8**	3.8 U	3.8 U	**15.6**
ICS-DOF-MW1-C	11 - 12'	0.97 U	3.8 U	3.8 U	**6.4**	7.6 U	**26**	3.8 U	3.8 U	**32.4**
ICS-DOF-MW2-A	2 - 3'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-DOF-MW2-B	8 - 9'	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW2-C	12 - 13'	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW3-A	2 - 4'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-DUP1	dup of MW3-A	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW3-B	7 - 8'	0.92 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-DOF-MW4-A	3 - 4'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW4-B	7 - 8'	0.96 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-DOF-MW4-C	10 - 11'	0.97 U	3.9 U	3.9 U	3.9 U	**3.1**	**2.3**	3.9 U	3.9 U	**5.4**
ICS-DOF-MW5-A	3 - 4'	0.92 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-DOF-MW5-B	7 - 8'	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW6-A	3 - 5'	**73**	19 U	19 U	**130**	**160**	**180**	19 U	19 U	**470**
ICS-DOF-MW6-B	6 - 8'	**52**	20 U	20 U	**260**	390 U	**1200**	20 U	20 U	**1460**
ICS-DOF-DUP2	dup of MW6-B	**65**	19 U	19 U	**200**	240 U	**740**	19 U	19 U	**940**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Level (a)		1680	-----	-----	-----	-----	-----	-----	-----	10,000
ICS-DOF-MW6-C	9 - 10'	0.99 U	4.0 U	4.0 U	**9.9**	12 U	**32**	4.0 U	4.0 U	**41.9**
ICS-DOF-MW7-A	3 - 4'	8.8 U	140 U	140 U	**220**	210 U	**670**	140 U	140 U	**890**
ICS-DOF-MW7-B	7 - 8'	0.98 U	3.9 U	3.9 U	**3.2**	**2.3**	**4.1**	3.9 U	3.9 U	**9.6**
ICS-DOF-MW7-C	11 - 12'	0.98 U	3.9 U	3.9 U	**3.3**	**2.4**	**2.5**	3.9 U	3.9 U	**8.2**
ICS-DOF-MW8-A	3 - 4'	0.93 U	3.7 U	3.7 U	3.7 U	**5.3**	**3.1**	3.7 U	5.6 U	**8.4**
ICS-DOF-MW8-B	7 - 8'	0.99 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	4.9 U	4.9 U
ICS-DOF-MW8-C	11 - 12'	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-LP4-NAPL	4 - 5'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P11-SO-4	3 - 4.5'	0.93 U	3.7 U	3.7 U	3.7 U	**3.1**	3.7 U	3.7 U	3.7 U	**3.1**
ICS-P11-SO-10	9.5 - 11'	9.7 U	3.9 U	3.9 U	9.8 U	3.9 U	3.9 U	3.9 U	3.9 U	9.8 U
ICS-P11-SO-16	15 - 17'	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P12-SO-4	3 - 4.5'	0.96 U	3.8 U	3.8 U	3.8 U	**5.3**	3.8 U	3.8 U	3.8 U	**5.3**
ICS-P12-SO-7	6 - 8'	-----	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P12-SO-10	9.8 - 11'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P12-SO-13	12 - 14'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P12-SO-16	15 - 17'	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P13-SO-4	4 - 6'	4.9 U	3.9 U	3.9 U	**230**	**1100**	**280**	3.9 U	3.9 U	**1610**
ICS-P13-SO-7	6 -8'	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P13-SO-10	9.5 - 11'	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P13-SO-17	16.5 - 18'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P14-SO-4	3 - 5'	0.95 U	3.8 U	3.8 U	**24**	**43**	**27**	3.8 U	3.8 U	**94**
ICS-P14-SO-7	6 - 8'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P14-SO-10	10 - 11.5'	0.99 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P14-SO-16	15 - 17'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P15-SO-4	3 - 5'	0.94 U	3.7 U	3.7 U	7.5 U	**20**	**5.9**	3.7 U	3.7 U	**25.9**
ICS-P15-SO-7	6 - 8'	-----	3.8 U	3.8 U	5.8 U	**5.2**	**2.3 J**	3.8 U	3.8 U	**7.5**
ICS-P15-SO-10	8.5 - 10'	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U
ICS-P15-SO-16	15 - 17'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P16-SO-4	3 - 4'	(see M.8260C result)	3.8 U	3.8 U	13 U	**160**	**23**	3.8 U	3.8 U	**183**
ICS-P16-SO-7	6 - 8'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P16-SO-10	9 - 10'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P16-SO-16	15 - 17'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Level (a)		1680	-----	-----	-----	-----	-----	-----	-----	10,000
ICS-P17-SO-4	4.5 - 6.5'	(see M.8260C result)	490 U	490 U	490 U	9800 U	**34000**	490 U	490 U	**34000**
ICS-P17-SO-7	6.7 - 8'	-----	130 U	130 U	650 U	**2900**	**5500**	130 U	130 U	**8400**
ICS-P17-SO-10	9 - 11'	(see M.8260C result)	3.8 U	3.8 U	3.8 U	12 U	**22**	3.8 U	3.8 U	**22**
ICS-P17-SO-13	12 - 14'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P17-SO-16	15 - 17'	(see M.8260C result)	3.8 U	3.8 U	3.8 U	3.8 U	**2.1**	3.8 U	3.8 U	**2.1**
ICS-P17-SO-22	21 - 23'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P18-SO-4	3 - 5'	5.4 U	22 U	22 U	**3500**	**1600**	**420**	22 U	22 U	**5520**
ICS-P18-SO-7	6 - 8'	15 U	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-10	9 - 10'	0.96 U	19 U	19 U	**110**	**190**	**69**	19 U	19 U	**369**
ICS-P18-SO-13	12 - 14'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P18-SO-16	14 - 16'	(see M.8260C result)	20 U	20 U	**3600**	**6100**	**2000**	20 U	20 U	**11700**
ICS-P18-SO-22	21 - 23'	0.96 U	3.8 U	3.8 U	**43**	**43**	**27**	3.8 U	3.8 U	**113**
ICS-P18-SO-32	31 - 33'	0.96 U	3.8 U	3.8 U	**5.1**	**3.8**	3.8 U	3.8 U	3.8 U	**8.9**
ICS-P18-SO-42	41 - 43'	-----	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P19-SO-4	3 - 4'	4.9 U	19 U	19 U	**660**	**670**	**120**	19 U	19 U	**1450**
ICS-P19-SO-10	9 - 10'	(see M.8260C result)	20 U	20 U	**340**	**290**	**170**	20 U	20 U	**800**
ICS-P19-SO-13	12 - 14'	0.98 U	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P19-SO-16	15 - 17'	1.0 U	20 U	20 U	**28**	**43**	**60**	20 U	20 U	**131**
ICS-P19-SO-22	21 - 23'	-----	4.0 U	4.0 U	9.9 U	**12**	**26**	4.0 U	4.0 U	**38**
ICS-P20-SO-3	2 - 4'	(see M.8260C result)	3.8 U	3.8 U	3.8 U	3.8 U	**5.1**	3.8 U	3.8 U	**5.1**
ICS-P20-SO-10	9.5 - 11'	0.94 U	3.8 U	3.8 U	**13**	**14**	**10**	3.8 U	3.8 U	**37**
ICS-P20-SO-13	12 - 14'	-----	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P20-SO-16	15 - 17'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P21-SO-7	6 - 8'	(see M.8260C result)	380 U	380 U	**4400**	**3300**	**1500**	380 U	380 U	**9200**
ICS-P21-SO-13	12 - 14'	9.6 U	96 U	96 U	**1900**	**1900**	**500**	96 U	96 U	**4300**
ICS-P21-SO-16	15 - 17'	0.99 U	4.0 U	4.0 U	**4.6**	**4.9**	4.0 U	4.0 U	4.0 U	**9.5**
ICS-P21-SO-22	21 - 23'	-----	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P21-SO-32	31 - 33'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P22-SO-4	3 - 4.5'	0.94 U	3.7 U	3.7 U	**65**	**120**	**98**	3.7 U	3.7 U	**283**
ICS-P22-SO-7	6 - 8'	2.8 U	20 U	20 U	**370**	**540**	**240**	20 U	20 U	**1150**
ICS-P22-SO-10	9 - 11'	0.99 U	4.0 U	4.0 U	**13**	**19**	**16**	4.0 U	4.0 U	**48**
ICS-P22-SO-13	12 - 14'	-----	3.9 U	3.9 U	3.9 U	**4.1**	**2.5 J**	3.9 U	3.9 U	**6.6**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Level (a)		1680	-----	-----	-----	-----	-----	-----	-----	10,000
ICS-P22-SO-16	15 - 17'	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P23-SO-3	2 - 4'	0.96 U	3.8 U	3.8 U	3.8 U	96 U	**520**	3.8 U	3.8 U	**520**
ICS-P23-SO-10	9.5 - 11	0.94 U	3.8 U	3.8 U	**28**	**23**	**14**	3.8 U	3.8 U	**65**
ICS-P23-SO-13	12 - 14'	1.0 U	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P23-SO-16	15 - 17'	0.96 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P24-SO-4	3 - 5'	1.0 U	4.0 U	4.0 U	6.0 U	**42**	**58**	4.0 U	4.0 U	**100**
ICS-P24-SO-10	9 - 10.5'	5.0 U	4.0 U	4.0 U	**980**	**1400**	**420**	4.0 U	4.0 U	**2800**
ICS-P24-SO-13	12 - 14'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P24-SO-16	15 - 17'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P25-SO-3	1 - 3'	4.8 U	38 U	38 U	38 U	**1600**	**2200**	38 U	38 U	**3800**
ICS-P25-SO-10	9 - 11'	(see M.8260C result)	3.8 U	3.8 U	29 U	**220**	**300**	3.8 U	3.8 U	**520**
ICS-P25-SO-13	12 - 14'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P25-SO-16	15 - 17'	(see M.8260C result)	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P26-SO-4	3 - 5'	1.3 U	3.8 U	3.8 U	**18**	**53**	**57**	3.8 U	3.8 U	**128**
ICS-P26-SO-7	6 - 8'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P26-SO-10	9 - 11'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P26-SO-16	15 - 17'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P27-SO-3	1 - 3'	5.0 U	4.0 U	4.0 U	4.0 U	99 U	**40**	4.0 U	4.0 U	**40**
ICS-P27-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-11	9 - 11'	0.95 U	3.8 U	3.8 U	3.8 U	5.7 U	**3.4**	3.8 U	3.8 U	**3.4**
ICS-P27-SO-13	12 - 14'	0.98 U	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P27-SO-16	15 - 17'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P27-SO-32	31 - 33'	(see M.8260C result)	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P28-SO-4	3 - 5'	0.94 U	3.8 U	3.8 U	3.8 U	4.7 U	**5.4**	3.8 U	3.8 U	**5.4**
ICS-P28-SO-10	8.5 - 10'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	**5.1**	3.9 U	3.9 U	**5.1**
ICS-P28-SO-16	15 - 17'	0.94 U	3.8 U	3.8 U	3.8 U	9.4 U	**13**	3.8 U	3.8 U	**13**
ICS-P28-SO-22	21 - 23'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P28-SO-32	31 - 33'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P29-SO-4	3 - 4'	(see M.8260C result)	24 U	24 U	**17000**	**9700**	**5600**	24 U	24 U	**32300**
ICS-P29-SO-7	6 - 8'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P29-SO-10	9 - 10'	(see M.8260C result)	3.9 U	3.9 U	**460**	**320**	**290**	3.9 U	3.9 U	**1070**
ICS-P29-SO-16	15 - 17'	2.0 U	3.9 U	3.9 U	**150**	**170**	**45**	3.9 U	3.9 U	**365**

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Level (a)		1680	-----	-----	-----	-----	-----	-----	-----	10,000
ICS-DUP2	P29-SO-16	2.0 U	3.9 U	3.9 U	**150**	**160**	**32**	3.9 U	3.9 U	**342**
ICS-P29-SO-22	21 - 23'	0.96 U	19 U	19 U	**530**	**600**	**140**	19 U	19 U	**1270**
ICS-P29-SO-32	31 - 33'	0.94 U	3.8 U	3.8 U	**4.9**	**2.6**	**2.8**	3.8 U	3.8 U	**10.3**
ICS-P29-SO-42	41 - 43'	-----	3.8 U	3.8 U	**6.4**	**5.0**	**3.0 J**	3.8 U	3.8 U	**14.4**
ICS-P29-SO-50	49 - 50'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P30-SO-7	6 - 7'	4.9 U	3.9 U	3.9 U	**450**	**330**	**200**	3.9 U	3.9 U	**980**
ICS-P30-SO-10	9 - 10'	-----	-----	-----	-----	-----	-----	-----	-----	-----
ICS-P30-SO-13	12.5 - 13.5'	5.0 U	4.0 U	4.0 U	**530**	**400**	**230**	4.0 U	4.0 U	**1160**
ICS-P30-SO-16	15 - 16.5'	0.97 U	3.9 U	3.9 U	19 U	12 U	4.8 U	3.9 U	3.9 U	19 U
ICS-P30-SO-22	21 - 23'	-----	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P30-SO-32	31 - 33'	0.94 U	3.8 U	3.8 U	**5.3**	**6**	3.8 U	3.8 U	3.8 U	**11.3**
ICS-P30-SO-42	41 - 43'	-----	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P30-SO-50	49 - 50'	-----	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P31-SO-4	3 - 4'	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P31-SO-10	9 - 11'	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P31-SO-16	15 - 17'	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P31-SO-32	31 - 33'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P32-SO-16	16 - 17.5'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-SO-DUPL3	P32-SO-16	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P32-SO-32	31 - 33'	0.96 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P33-SO-16	15 - 17'	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P33-SO-32	31 - 33'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P34-SO-4	3 - 5'	0.95 U	3.8 U	3.8 U	19 U	**57.0 JP**	**60**	3.8 U	3.8 U	**117**
ICS-P34-SO-10	9 - 11'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P34-SO-16	15 - 17'	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P35-SO-4	3 - 5'	0.94 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-P35-SO-10	9 - 11'	0.96 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P35-SO-16	15 - 17'	1.9 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P36-SO-4	3 - 4'	0.93 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P36-SO-10	10 - 12'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P36-SO-16	15 - 17'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U

TABLE H.4a - Results of Soil Sample Analyses - 2012 to 2015

Sample Location	Depth (feet)	Hexachloro-butadiene µg/kg, dry	Aroclor 1016 µg/kg, dry	Aroclor 1242 µg/kg, dry	Aroclor 1248 µg/kg, dry	Aroclor 1254 µg/kg, dry	Aroclor 1260 µg/kg, dry	Aroclor 1221 µg/kg, dry	Aroclor 1232 µg/kg, dry	Total Detected PCBs µg/kg, dry
Screening Level (a)		1680	-----	-----	-----	-----	-----	-----	-----	10,000
ICS-Ap-10-SO	9 - 10'	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-Bp-10-SO	9 - 10'	0.99 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-Cp-10-SO	9 - 10'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Du-10-SO	9 - 10'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-Du-16-SO	15 - 17'	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-FL-4-SO	3 - 5'	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-FL-7-SO	6 - 8'	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-FL-10-SO	9 - 10'	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	**2.9 J**	4.0 U	4.0 U	4.0 U
ICS-FL-13-SO	12 - 14'	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-FL-16-SO	15.5 - 17'	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-FL-21-SO	20 - 22'	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Ju-4-SO	3 - 4'	98 U	120 U	120 U	**19,000**	**15,000**	**5800**	120 U	120 U	**39,800**
ICS-Ju-10-SO	10- 11'	0.95 U	3.8 U	3.8 U	**40**	**48**	**19**	3.8 U	3.8 U	**107**
ICS-Ju-15-SO	15 - 16	0.99 U	4.0 U	4.0 U	**6.2**	**5.8**	**1.4 J**	4.0 U	4.0 U	**13.4**
Number of Samples		134	162	162	162	162	162	162	162	162
Number of Detections		3	0	0	50	62	70	0	0	78
Percent Detected		2.2%	0.0%	0.0%	30.9%	38.3%	43.2%	0.0%	0.0%	48.1%
Highest Conc.		73	0	0	53000	36000	34000	0	0	113000

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
(a) - Based on industrial land use

TABLE H.4b - BaPEq-TEQ Calculations - 2012 to 2015 Soil Data

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry	Adjusted Conc. TEF=1.0	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	Sum TEQ BaPEq
ICS-LP1-SO-A	3 - 5'	10/15/12	VN72	**34**	**3.4**	**53**	**0.53**	**93**	**9.3**	**62**	**62**	**51**	**5.1**	**11 J**	**11**	**91**
ICS-LP1-SO-B	6.5 - 8'	10/15/12	VN72	**220**	**22**	**350**	**3.5**	**510**	**51**	**230**	**230**	**110**	**11**	63 U		**318**
ICS-LP1-SO-C	10.5 - 12'	10/15/12	VN72	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-LP2-SO-A	3 - 5'	10/15/12	VN72	**21**	**2.1**	**38**	**0.38**	**56**	**5.6**	**25**	**25**	**23**	**2.3**	18 U		**35**
ICS-LP2-SO-B	5.5 - 7.5'	10/15/12	VN72	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-LP2-SO-C	8 - 10'	10/15/12	VN72	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-LP3-SO-A	3 - 5'	10/15/12	VN72	**88**	**8.8**	**110**	**1.1**	**270**	**27**	**150**	**150**	**170**	**17**	**48**	**48**	**252**
ICS-LP3-SO-B	6 - 8'	10/15/12	VN72	**13,000**	**1300**	**14,000**	**140**	**18,000**	**1800**	**10,000**	**10000**	**4500**	**450**	**2300**	**2300**	**15990**
ICS-LP3-SO-C	10 - 12'	10/15/12	VN72	**49**	**4.9**	**64**	**0.64**	**78**	**7.8**	**38**	**38**	**16 J**	**1.6**	18 U		**53**
ICS-LP3-SO-D	15 - 16'	10/15/12	XD56	**46**	**4.6**	**54**	**0.54**	**78**	**7.8**	**40**	**40**	**22**	**2.2**	19 U		**55**
ICS-LP4-SO-A	8 - 10'	10/15/12	VN72	**240**	**24**	**300**	**3**	**350**	**35**	**200**	**200**	**99**	**9.9**	**34 J**	**34**	**306**
ICS-LP4-SO-B	10 - 12'	10/15/12	VN72	**50**	**5**	**79**	**0.79**	**84**	**8.4**	**41**	**41**	19 U		19 U		**55**
ICS-LP4-SO-C	14 - 15'	10/15/12	VN72	18 U		18 U		36 U		18 U		18 U		18 U		**nd**
ICS-DOF-MW1-A	4 - 5'	10/15/12	VN71	**12 J**	**1.2**	**17 J**	**0.17**	**20 J**	**2**	20 U		20 U		20 U		**3.4**
ICS-DOF-MW1-B	6.5 - 7.5'	10/15/12	VN71	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW1-C	11 - 12'	10/15/12	VN71	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW2-A	2 - 3'	10/16/12	VO10	18 U		18 U		37 U		18 U		18 U		18 U		**nd**
ICS-DOF-MW2-B	8 - 9'	10/16/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW2-C	12 - 13'	10/16/12	VO10	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-DOF-MW3-A	2 - 4'	10/16/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-DUP1	dup of MW3-A	10/16/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW3-B	7 - 8'	10/16/12	VO10	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-DOF-MW4-A	3 - 4'	10/17/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW4-B	7 - 8'	10/17/12	VO10	19 U		**10 J**	**0.1**	38 U		19 U		19 U		19 U		**0.1**
ICS-DOF-MW4-C	10 - 11'	10/17/12	VO10	**19 J**	**1.9**	**23**	**0.23**	**27 J**	**2.7**	**14 J**	**14**	20 U		20 U		**19**
ICS-DOF-MW5-A	3 - 4'	10/17/12	VO11	18 U		**13 J**	**0.13**	**9 J**	**0.9**	18 U		18 U		18 U		**1.0**
ICS-DOF-MW5-B	7 - 8'	10/17/12	VO11	**11 J**	**1.1**	**12 J**	**0.12**	**13 J**	**1.3**	20 U		20 U		20 U		**2.5**
ICS-DOF-MW6-A	3 - 5'	10/17/12	VO11	100 U		100 U		**88 J**	**8.8**	100 U		100 U		100 U		**8.8**
ICS-DOF-MW6-B	6 - 8'	10/17/12	VO11	**29 J**	**2.9**	**62**	**0.62**	**31 J**	**3.1**	44 U		44 U		44 U		**6.6**
ICS-DOF-DUP2	dup of MW6-B	10/17/12	VO11	**70**	**7**	**120**	**1.2**	**42 J**	**4.2**	61 U		61 U		61 U		**12**
ICS-DOF-MW6-C	9 - 10'	10/17/12	VO11	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW7-A	3 - 4'	10/16/12	VO10	**250**	**25**	**220**	**2.2**	**240**	**24**	**150**	**150**	**52**	**5.2**	**15 J**	**15**	**221**
ICS-DOF-MW7-B	7 - 8'	10/16/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW7-C	11 - 12'	10/16/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW8-A	3 - 4'	10/16/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW8-B	7 - 8'	10/16/12	VO10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-DOF-MW8-C	11 - 12'	10/16/12	VO10	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-LP4-NAPL	4 - 5'	10/15/12	VN72	-----		-----		-----		-----		-----		-----		-----
ICS-P11-SO-4	3 - 4.5'	11/17/14	ZK75	**12 J**	**1.2**	**12 J**	**0.12**	**23 J**	**2.3**	**12 J**	**12**	**12 J**	**1.2**	19 U		**17**
ICS-P11-SO-10	9.5 - 11'	11/17/14	ZK75	19 U		19 U		**16 J**	**1.6**	19 U		19 U		19 U		**1.6**
ICS-P11-SO-16	15 - 17'	11/17/14	ZK75	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-P12-SO-4	3 - 4.5'	41960	ZK75	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P12-SO-7	6 - 8'	41960	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P12-SO-10	9.8 - 11'	41960	ZK75	19 U		19 U		**11**	**1.1**	19 U		19 U		19 U		**1.1**
ICS-P12-SO-13	12 - 14'	41960	ZK75	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P12-SO-16	15 - 17'	41960	ZK75	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P13-SO-4	4 - 6'	11/13/14	ZK33	**37**	**3.7**	**79**	**0.79**	**130**	**13**	**46**	**46**	**48**	**4.8**	**13 J**	**13**	**81**

TABLE H.4b - BaPEq-TEQ Calculations - 2012 to 2015 Soil Data

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry	Adjusted Conc. TEF=1.0	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	Sum TEQ BaPEq
ICS-P13-SO-7	6 -8'	11/13/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P13-SO-10	9.5 - 11'	11/13/14	ZK33	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P13-SO-17	16.5 - 18'	11/13/14	ZK33	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P14-SO-4	3 - 5'	11/14/14	ZK50	**24**	**2.4**	**39**	**0.39**	**50**	**5**	**23**	**23**	**22**	**2.2**	**11 J**	**11**	**44**
ICS-P14-SO-7	6 - 8'	11/14/15	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P14-SO-10	10 - 11.5'	11/14/14	ZK50	**70**	**7**	**100**	**1**	**100**	**10**	**37**	**37**	**26**	**2.6**	**13 J**	**13**	**71**
ICS-P14-SO-16	15 - 17'	11/14/14	ZK50	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P15-SO-4	3 - 5'	11/14/14	ZK50	**14 J**	**1.4**	**25**	**0.25**	**22 J**	**2.2**	20 U		20 U		20 U		**3.9**
ICS-P15-SO-7	6 - 8'	11/14/15	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P15-SO-10	8.5 - 10'	11/14/14	ZK50	20 U		20 U		**16 J**	**1.6**	20 U		20 U		20 U		**1.6**
ICS-P15-SO-16	15 - 17'	11/14/14	ZK50	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P16-SO-4	3 - 4'	12/10/14	ZO28	**7.8 J**	**0.78**	**17 J**	**0.17**	**26 J**	**2.6**	20 U		**11 J**	**1.1**	20 U		**4.7**
ICS-P16-SO-7	6 - 8'	12/10/15	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P16-SO-10	9 - 10'	12/10/14	ZO28	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-P16-SO-16	15 - 17'	12/10/14	ZO28	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P17-SO-4	4.5 - 6.5'	11/12/14	ZK10	19 U		**30**	**0.3**	37 U		19 U		19 U		19 U		**0.30**
ICS-P17-SO-7	6.7 - 8'	11/12/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P17-SO-10	9 - 11'	11/12/14	ZK10	19 U		19 U		39 U		19 U		19 U		19 U		**nd**
ICS-P17-SO-13	12 - 14'	11/12/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P17-SO-16	15 - 17'	11/12/14	ZK10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P17-SO-22	21 - 23'	11/12/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P18-SO-4	3 - 5'	12/16/14	ZP53	**6800**	**680**	**8100**	**81**	**11000**	**1100**	**7200**	**7200**	**3900**	**390**	**1700**	**1700**	**11151**
ICS-P18-SO-7	6 - 8'	12/16/14	AKB5	**89**	**8.9**	**130**	**1.3**	**140**	**14**	**71**	**71**	**48**	**4.8**	19 U		**100**
ICS-P18-SO-10	9 - 10'	12/16/14	ZP53	**75**	**7.5**	**99**	**0.99**	**75 J**	**7.5**	**39**	**39**	**21 J**	**2.1**	39 U		**57**
ICS-P18-SO-13	12 - 14'	12/16/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P18-SO-16	14 - 16'	12/16/14	ZP53	**640**	**64**	**1000**	**10**	**1200**	**120**	**570**	**570**	**180**	**18**	**80 J**	**80**	**862**
ICS-P18-SO-22	21 - 23'	12/16/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P18-SO-32	31 - 33'	12/16/14	ZP53	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P18-SO-42	41 - 43'	12/16/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P19-SO-4	3 - 4'	12/16/14	ZP53	**140**	**14**	**230**	**2.3**	**250**	**25**	**140**	**140**	**28**	**2.8**	**18 J**	**18**	**202**
ICS-P19-SO-10	9 - 10'	12/16/14	ZP53	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P19-SO-13	12 - 14'	12/16/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P19-SO-16	15 - 17'	12/16/14	ZP53	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P19-SO-22	21 - 23'	12/16/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P20-SO-3	2 - 4'	11/12/14	ZK10	19 U		19 U		39 U		19 U		19 U		19 U		**nd**
ICS-P20-SO-10	9.5 - 11'	11/12/14	ZK10	19 U		19 U		39 U		19 U		19 U		19 U		**nd**
ICS-P20-SO-13	12 - 14'	11/12/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P20-SO-16	15 - 17'	11/12/14	ZK10	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P21-SO-7	6 - 8'	12/8/14	ZN97	**350**	**35**	**460**	**4.6**	**500**	**50**	**310**	**310**	**180**	**18**	**65**	**65**	**483**
ICS-P21-SO-13	12 - 14'	12/8/14	ZN97	**160**	**16**	**230**	**2.3**	**270**	**27**	**130**	**130**	**79**	**7.9**	**40**	**40**	**223**
ICS-P21-SO-16	15 - 17'	12/8/14	ZN97	19 U		19 U		39 U		19 U		19 U		19 U		**nd**
ICS-P21-SO-22	21 - 23'	12/8/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P21-SO-32	31 - 33'	12/8/14	ZN97	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P22-SO-4	3 - 4.5'	11/14/14	ZK50	**11 J**	**1.1**	**16 J**	**0.16**	**23 J**	**2.3**	19 U		19 U		19 U		**4**
ICS-P22-SO-7	6 - 8'	11/14/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P22-SO-10	9 - 11'	11/14/14	ZK50	19 U		19 U		**16 J**	**1.6**	19 U		19 U		19 U		**2**
ICS-P22-SO-13	12 - 14'	11/14/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P22-SO-16	15 - 17'	11/14/14	ZK50	19 U		19 U		38 U		19 U		19 U		19 U		**nd**

TABLE H.4b - BaPEq-TEQ Calculations - 2012 to 2015 Soil Data

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry	Adjusted Conc. TEF=1.0	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	Sum TEQ BaPEq
ICS-P23-SO-3	2 - 4'	11/12/14	ZK10	**31**	**3.1**	**50**	**0.5**	**91**	**9.1**	**33**	**33**	**40**	**4**	**14 J**	**14**	**64**
ICS-P23-SO-10	9.5 - 11	11/12/14	ZK10	19 U		19 U		39 U		19 U		19 U		19 U		**nd**
ICS-P23-SO-13	12 - 14'	11/12/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P23-SO-16	15 - 17'	11/12/14	ZK10	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-P24-SO-4	3 - 5'	11/13/14	ZK33	18 U		**14 J**	**0.14**	**16 J**	**1.6**	18 U		18 U		18 U		**2**
ICS-P24-SO-10	9 - 10.5'	11/13/14	ZK33	**50**	**5**	**150**	**1.5**	**170**	**17**	**100**	**100**	**30**	**3**	19 U		**127**
ICS-P24-SO-13	12 - 14'	11/13/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P24-SO-16	15 - 17'	11/13/14	ZK33	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P25-SO-3	1 - 3'	11/11/14	ZJ92	**62**	**6.2**	**95**	**0.95**	**150**	**15**	**76**	**76**	**59**	**5.9**	**16 J**	**16**	**120**
ICS-P25-SO-10	9 - 11'	11/11/14	ZJ92	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P25-SO-13	12 - 14'	11/11/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P25-SO-16	15 - 17'	11/11/14	ZJ92	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P26-SO-4	3 - 5'	11/13/14	ZK33	**45**	**4.5**	**64**	**0.64**	**83**	**8.3**	**47**	**47**	**29**	**2.9**	**13 J**	**13**	**76**
ICS-P26-SO-7	6 - 8'	11/13/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P26-SO-10	9 - 11'	11/13/14	ZK33	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-P26-SO-16	15 - 17'	11/13/14	ZK33	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P27-SO-3	1 - 3'	11/11/14	ZJ92	**20**	**2**	**56**	**0.56**	**78**	**7.8**	**19**	**19**	**28**	**2.8**	**9.7 J**	**9.7**	**42**
ICS-P27-SO-7	6 - 8'	11/11/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P27-SO-11	9 - 11'	11/11/14	ZJ92	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P27-SO-13	12 - 14'	11/11/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P27-SO-16	15 - 17'	11/11/14	ZJ92	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P27-SO-32	31 - 33'	11/11/14	ZJ92	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P28-SO-4	3 - 5'	12/15/14	ZP37	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P28-SO-10	8.5 - 10'	12/15/14	ZP37	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P28-SO-16	15 - 17'	12/15/14	ZP37	18 U		18 U		37 U		18 U		18 U		18 U		**nd**
ICS-P28-SO-22	21 - 23'	12/15/14	AKB5	-----		-----		-----		-----		-----		-----		-----
ICS-P28-SO-32	31 - 33'	12/15/14	ZP37	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P29-SO-4	3 - 4'	12/10/14	ZO28	**340**	**34**	**660**	**6.6**	**310 J**	**31**	230 U		230 U		230 U		**72**
ICS-P29-SO-7	6 - 8'	12/10/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P29-SO-10	9 - 10'	12/10/14	ZO28	**16 J**	**1.6**	**26**	**0.26**	**20 J**	**2**	**7.5 J**	**7.5**	19 U		19 U		**11**
ICS-P29-SO-16	15 - 17'	12/10/14	ZO28	**71**	**7.1**	**81**	**0.81**	**58**	**5.8**	**30**	**30**	**11 J**	**1.1**	19 U		**45**
ICS-DUP2	P29-SO-16	12/10/14	ZO28	**54**	**5.4**	**67**	**0.67**	**49**	**4.9**	**26**	**26**	19 U		19 U		**37**
ICS-P29-SO-22	21 - 23'	12/10/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P29-SO-32	31 - 33'	12/10/14	ZO28	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-P29-SO-42	41 - 43'	12/10/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P29-SO-50	49 - 50'	12/10/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P30-SO-7	6 - 7'	12/9/14	ZO01	**940**	**94**	**1100**	**11**	**1400**	**140**	**1300**	**1300**	**580**	**58**	**220**	**220**	**1823**
ICS-P30-SO-10	9 - 10'	12/9/14	AKB6	**160**	**16**	**220**	**2.2**	**260**	**26**	**130**	**130**	**80**	**8**	**29**	**29**	**211**
ICS-P30-SO-13	12.5 - 13.5'	12/9/14	ZO01	**280**	**28**	**420**	**4.2**	**420**	**42**	**240**	**240**	**150**	**15**	**46**	**46**	**375**
ICS-P30-SO-16	15 - 16.5'	12/9/14	ZO01	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P30-SO-22	21 - 23'	12/9/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P30-SO-32	31 - 33'	12/9/14	ZO01	**5.6**	**0.56**	**9.2**	**0.092**	**11**	**1.1**	18 U		18 U		18 U		**1.8**
ICS-P30-SO-42	41 - 43'	12/9/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P30-SO-50	49 - 50'	12/9/14	AKB6	-----		-----		-----		-----		-----		-----		-----
ICS-P31-SO-4	3 - 4'	12/9/14	ZO01	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P31-SO-10	9 - 11'	12/9/14	ZO01	**13 J**	**1.3**	**17 J**	**0.17**	**20 J**	**2**	19 U		19 U		19 U		**3.5**
ICS-P31-SO-16	15 - 17'	12/9/14	ZO01	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P31-SO-32	31 - 33'	12/9/14	ZO01	19 U		19 U		38 U		19 U		19 U		19 U		**nd**

TABLE H.4b - BaPEq-TEQ Calculations - 2012 to 2015 Soil Data

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	Benzo(a)-anthracene µg/kg, dry	Adjusted Conc. TEF=0.1	Chrysene µg/kg, dry	Adjusted Conc. TEF=0.01	total Benzo-fluoranthenes µg/kg, dry	Adjusted Conc. TEF=0.1	Benzo(a)-pyrene µg/kg, dry	Adjusted Conc. TEF=1.0	Indeno(1,2,3-cd)pyrene µg/kg, dry	Adjusted Conc. TEF=0.1	Dibenz(a,h)-anthracene µg/kg, dry	Adjusted Conc. TEF=1.0	Sum TEQ BaPEq
ICS-P32-SO-16	16 - 17.5'	12/15/14	ZP37	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-SO-DUPL3	P32-SO-16	12/15/14	ZP37	18 U		18 U		37 U		18 U		18 U		18 U		**nd**
ICS-P32-SO-32	31 - 33'	12/15/14	ZP37	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P33-SO-16	15 - 17'	12/8/14	ZN97	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P33-SO-32	31 - 33'	12/8/14	ZN97	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P34-SO-4	3 - 5'	6/9/2015	AHN0	**34**	**3.4**	**46**	**0.46**	**110**	**11**	**43**	**43**	**30**	**3**	**15 J**	**15**	**76**
ICS-P34-SO-10	9 - 11'	6/9/2015	AHN0	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P34-SO-16	15 - 17'	6/9/2015	AHN0	19 U		19 U		39 U		19 U		19 U		19 U		**nd**
ICS-P35-SO-4	3 - 5'	6/8/2015	AHL3	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P35-SO-10	9 - 11'	6/8/2015	AHL3	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P35-SO-16	15 - 17'	6/8/2015	AHL3	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-P36-SO-4	3 - 4'	6/8/2015	AHL3	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-P36-SO-10	10 - 12'	6/8/2015	AHL3	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-P36-SO-16	15 - 17'	6/8/2015	AHL3	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-Ap-10-SO	9 - 10'	10/5/15	AOE4	19 U		**7.5 J**	**0.075**	38 U		19 U		19 U		19 U		**0.08**
ICS-Bp-10-SO	9 - 10'	10/5/15	AOE4	**5.8 J**	**0.58**	**6.8 J**	**0.068**	39 U		20 U		20 U		20 U		**0.65**
ICS-Cp-10-SO	9 - 10'	10/7/15	AOE4	**21**	**2.1**	**27**	**0.27**	**33 J**	**3.3**	19 U		**15 J**	**1.5**	19 U		**7.2**
ICS-Du-10-SO	9 - 10'	10/5/15	AOE4	19 U		**13 J**	**0.13**	**16 J**	**1.6**	19 U		19 U		19 U		**1.7**
ICS-Du-16-SO	15 - 17'	10/5/15	AOE4	19 U		19 U		37 U		19 U		19 U		19 U		**nd**
ICS-FL-4-SO	3 - 5'	10/8/15	AOE4	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-FL-7-SO	6 - 8'	10/8/15	AOE4	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-FL-10-SO	9 - 10'	10/8/15	AOE4	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-FL-13-SO	12 - 14'	10/8/15	AOE4	20 U		20 U		40 U		20 U		20 U		20 U		**nd**
ICS-FL-16-SO	15.5 - 17'	10/8/15	AOE4	19 U		19 U		38 U		19 U		19 U		19 U		**nd**
ICS-FL-21-SO	20 - 22'	10/8/15	AOE4	20 U		20 U		39 U		20 U		20 U		20 U		**nd**
ICS-Ju-4-SO	3 - 4'	10/7/15	AOE4	**1100**	**110**	**1100**	**11**	**1800**	**180**	**1400**	**1400**	**180**	**18**	120 U		**1719**
ICS-Ju-10-SO	10- 11'	10/7/15	AOE4	**43**	**4.3**	**49**	**0.49**	**71**	**7.1**	**30**	**30**	**21**	**2.1**	20 U		**44**
ICS-Ju-15-SO	15 - 16	10/7/15	AOE4	**29**	**2.9**	**32**	**0.32**	**36 J**	**3.6**	**14 J**	**14**	19 U		19 U		**21**
Number of Samples		-----	-----	140	-----	140	-----	140	-----	140	-----	140	-----	140	-----	140
Number of Detections		-----	-----	49	-----	55	-----	56	-----	37	-----	34	-----	21	-----	60
Percent Detected		-----	-----	35.0%	-----	39.3%	-----	40.0%	-----	26.4%	-----	24.3%	-----	15.0%	-----	42.9%
Highest Conc.		-----	-----	13000	-----	14000	-----	18000	-----	10000	-----	4500	-----	2300	-----	15990

Notes: *JM = estimate associated with manual evaluation; see narrative.*
J = estimate associated with value less than the verifiable lower quantitation limit.
JQ = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
JR = estimate; due to low matrix spike recovery. Value likely biased low.
JB = estimate; associated value may be biased high due to contribution from laboratory background or method blank
JP = estimated value due to noncompliance with all criteria for identification and/or chemical interference.

TABLE H.5 - Results PCDD/PCDF Soil Sample Analyses - 2014

ICS/NW Cooperage Sie
Seattle, WA

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	solids	2,3,7,8-TCDF	total TCDF	2,3,7,8-TCDD	total TCDD	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	total PeCDF
				%	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry
ICS-P21-SO-13	12 - 14'	12/8/2014	ZN97B	70	**8.24**	267	**4.61**	78.6	**7.14**	**26.9**	693
ICS-P18-SO-16	14 - 16'	12/16/2014	ZP53C	79	**22.3**	344	**13.2**	213	**17.2**	**44.7**	1000

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	1,2,3,7,8-PeCDD	total PeCDD	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	total HxCDF	1,2,3,4,7,8-HxCDD
				ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry
ICS-P21-SO-13	12 - 14'	12/8/2014	ZN97B	**27.2**	165	**187**	**50.6**	**67.5**	**20.1**	1910	**48.3**
ICS-P18-SO-16	14 - 16'	12/16/2014	ZP53C	**47.2**	296	**354**	**97.7**	**128**	**43.4**	3840	**64.3**

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	total HxCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	total HpCDF	1,2,3,4,6,7,8-HpCDD	total HpCDD
				ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry
ICS-P21-SO-13	12 - 14'	12/8/2014	ZN97B	**157**	**123**	1070	**1620**	**86.0**	5460	**4630**	8400
ICS-P18-SO-16	14 - 16'	12/16/2014	ZP53C	**314**	**213**	1710	**3090**	**193**	10,300	**7140**	12,200

Sample Location	Depth (feet)	Collection Date	ARI Delivery Group	OCDF	OCDD	TEQ	
						ND=0	ND/2
				ng/kg, dry	ng/kg, dry	ng/kg, dry	ng/kg, dry
ICS-P21-SO-13	12 - 14'	12/8/2014	ZN97B	**6230**	**43,000 J_E**	184	184
ICS-P18-SO-16	14 - 16'	12/16/2014	ZP53C	**9320**	**47,300 J_E**	319	319

J_E = estimated value due to exceedane of verifiable linear calibration range.
PCDD/PCDF - Polychlorinated dibenzo-p-dioxins/dibenzofurans

Table G-1

RI Soil Analytical Data - TPH and VOC Results

7100 1st Avenue South Site

Seattle, Washington

Analyte	Screening Level		Unit	SB-1 3.5 (v) 10/26/1990	SB-1 11.5 10/26/1990	SB-2 3.5 (v) 10/26/1990	SB-2 8.5 (v) 10/26/1990	SB-3 3.5 (v) 10/26/1990	SB-3 11.5 10/26/1990	SB-4 8 (v) 12/6/1990	SB-4 13 12/6/1990	SB-4 18 12/6/1990	SB-4 23 12/6/1990	SB-4 28 12/6/1990	SB-4 33 12/6/1990	SB-5 13 12/6/1990	SB-5 18 12/6/1990	SB-5 23 12/6/1990	SB-5 28 12/6/1990	SB-5 33 12/6/1990	SG-1 3.5 (v) 10/26/1990
	Vadose Zone	Saturated Zone																			
TPH																					
Total Petroleum Hydrocarbons[1]	2000	2000	mg/kg	12	73	57	350	99	31	130	207	460	240	450	55	210	3600	110	340	59	3.5
Gasoline-range hydrocarbons	30	30	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Diesel-range hydrocarbons	2000	2000	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Lube Oil-range Hydrocarbons	2000	2000	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VOCs																					
1,1,2-Trichloroethane	18	18	mg/kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
1,2,4-Trimethylbenzene	NE	NE	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,2-Dichloroethane	11	11	mg/kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
1,3,5-Trimethylbenzene	800	800	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2-Butanone (MEK)	48000	48000	mg/kg	–	–	–	–	–	–	0.01 U	–	–	–	–	–	0.01 U	–	–	–	–	–
2-Hexanone	NE	NE	mg/kg	–	–	–	–	–	–	0.01 U	–	–	–	–	–	0.01 U	–	–	–	–	–
Acetone	72000	72000	mg/kg	–	–	–	–	–	–	**0.22**	–	–	–	–	–	**0.094**	–	–	–	–	–
Benzene	1.1	0.058	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	**0.097**
Bromomethane	112	112	mg/kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
Carbon Disulfide	8000	8000	mg/kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
Chloroform	800	800	mg/kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
Chloromethane	NE	NE	mg/kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
cis-1,2-Dichloroethene	160	160	mg/kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
Dichlorodifluoromethane (CFC-12)	16000	16000	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Ethylbenzene	6.6	0.34	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	0.0050 U
Isopropylbenzene (Cumene)	8000	8000	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Methyl Iodide (Iodomethane)	NE	NE	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Methylene Chloride	480	480	mg/kg	–	–	–	–	–	–	**0.11**	–	–	–	–	–	**0.054**	–	–	–	–	–
n-Butylbenzene	4000	4000	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
n-Propylbenzene	8000	8000	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
p-Isopropyltoluene	NE	NE	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sec-Butylbenzene	8000	8000	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Tert-Butylbenzene	8000	8000	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Tetrachloroethene	476	476	mg/Kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
Toluene	6400	6400	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	**0.013**
Trichloroethene	11.5	11.5	mg/Kg	–	–	–	–	–	–	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	–
Xylene, m-,p-	16000	16000	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	0.018
Xylene, o-	16000	16000	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0010 U	–	–	–	–	–	0.0010 U	–	–	–	–	0.0050 U

TABLE H-6 - Douglas Property Soil Data

Analyte	Screening Level Vadose Zone	Screening Level Saturated Zone	Unit	SG-1 11.5 10/26/1990	MW-1 3.5 (v) 10/25/1990	MW-1 8.5 (v) 10/25/1990	MW-1 13.5 10/25/1990	MW-2 3.5 (v) 10/25/1990	MW-2 13.5 10/25/1990	MW-2 18.5 10/25/1990	MW-3 3.5 (v) 10/25/1990	MW-3 13.5 10/25/1990	MW-3 18.5 10/25/1990	MW-4 3.5 (v) 10/26/1990	MW-8 30 6/18/2008	MW-9 15 6/18/2008	MW-10 20 6/18/2008	MW-11 15 6/19/2008	MW-12 15 6/19/2008	MW-12 25 6/19/2008	HA-1 0.5 (v) 7/10/2013
TPH																					
Total Petroleum Hydrocarbons[1]	**2000**	**2000**	mg/kg	**18**	**720**	**480**	**820**	**25**	**110**	**350**	**550**	**380**	**540**	**360**	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	**30**	**30**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	**7.7 J**	–	–	–	**100 J**	–	–
Diesel-range hydrocarbons	**2000**	**2000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	**670 J**	**43 J**	**72 J**	–	**410 J**	**90 J**	**160**
Lube Oil-range Hydrocarbons	**2000**	**2000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	**970 J**	**100 J***	**180 J**	–	**490 J**	**290 J**	**410**
VOCs																					
1,1,2-Trichloroethane	**17.54**	**17.54**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.053 U	0.0056 U	–
1,2,4-Trimethylbenzene			mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.0066 J**	0.025 U	**0.011 J**	**0.00017 J**	**0.38**	**0.0015 J**	–
1,2-Dichloroethane	**10.989**	**10.989**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.053 U	0.0056 U	–
1,3,5-Trimethylbenzene	**800**	**800**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.0026 J**	0.025 U	**0.0047 J**	0.022 U	**0.091 J**	0.023 U	–
2-Butanone (MEK)	**48000**	**48000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	0.027 U	0.025 U	0.032 U	**0.0042 J**	2.1 U	**0.0065 J**	–
2-Hexanone	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.027 U	0.025 U	0.032 U	**0.022 U**	2.1 U	**0.023 U**	–
Acetone	**72000**	**72000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	**0.047**	**0.032**	**0.051**	**0.027**	**0.31 J**	**0.038**	–
Benzene	**1.1**	**0.058**	mg/kg	**0.01**	0.0020 U	0.0020 U	0.0050 U	0.0020 U	**0.05**	0.0020 U	**0.0150**	**0.0280**	0.0020 U	0.0050 U	0.0068 U	0.0062 U	**0.052**	0.0055 U	**0.071**	**0.014**	–
Bromomethane	**112**	**112**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	**0.0011 J**	**0.0012 J**	0.0055 U	0.053 U	**0.0025 J**	–
Carbon Disulfide	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.0014 J**	**0.002 J**	**0.0034 J**	**0.0022 J**	0.053 U	**0.0039 J**	–
Chloroform	**800**	**800**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.053 U	**0.0056 U**	–
Chloromethane	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	**0.022 J**	**0.00048 J**	–
cis-1,2-Dichloroethene	**160**	**160**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.053 U	**0.0056 U**	–
Dichlorodifluoromethane (CFC-12)	**16000**	**16000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	**0.055**	**0.0097**	–
Ethylbenzene	**6.6**	**0.34**	mg/kg	0.0050 U	0.0020 U	0.0020 U	0.0050 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0050 U	**0.0024 J**	**0.00025 J**	**0.0033 J**	0.0055 U	**0.085**	**0.0006 J**	–
Isopropylbenzene (Cumene)	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.0079 J**	0.025 U	**0.0061 J**	0.022 U	**0.11 J**	**0.001 J**	–
Methyl Iodide (Iodomethane)	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Methylene Chloride	**480**	**480**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	0.014 U	**0.00033 J**	**0.00056 J**	**0.00041 J**	**0.095 J**	**0.0023 J**	–
n-Butylbenzene	**4000**	**4000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.00095 J**	0.025 U	**0.0026 J**	0.022 U	**0.4**	**0.0047 J**	–
n-Propylbenzene	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.0016 J**	0.025 U	**0.0028 J**	0.022 U	**0.54**	**0.0048 J**	–
p-Isopropyltoluene	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.0011 J**	0.025 U	**0.0026 J**	0.022 U	0.21 U	**0.023 U**	–
Sec-Butylbenzene	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	**0.0013 J**	0.025 U	**0.0034 J**	0.022 U	**0.12 J**	**0.0015 J**	–
Tert-Butylbenzene	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.027 U	0.025 U	0.032 U	0.022 U	0.21 U	**0.023 U**	–
Tetrachloroethene	**476**	**476**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	**0.016 J**	**0.0056 U**	–
Toluene	**6400**	**6400**	mg/kg	0.0050 U	0.0020 U	0.0020 U	0.0050 U	0.0020 U	0.0020 U	0.0020 U	**0.0023**	0.0020 U	0.0020 U	0.0050 U	**0.00098 J**	**0.00045 J**	**0.0014 J**	**0.00065 J**	**0.18**	**0.0014 J**	–
Trichloroethene	**11.5**	**11.5**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	0.0068 U	0.0062 U	0.0079 U	0.0055 U	0.053 U	**0.0056 U**	–
Xylene, m-,p-	**16000**	**16000**	mg/kg	0.0050 U	0.0020 U	0.0020 U	0.0050 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0050 U	**0.0049 J**	0.0062 U	**0.0034 J**	**0.00022 J**	**0.32**	**0.0016 J**	–
Xylene, o-	**16000**	**16000**	mg/kg	0.0050 U	0.0020 U	0.0020 U	0.0050 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0050 U	**0.0024 J**	0.0062 U	**0.002 J**	0.0055 U	**0.085**	**0.00049 J**	–

TABLE H-6 - Douglas Property Soil Data

Analyte	Screening Level: Vadose Zone	Screening Level: Saturated Zone	Unit	HA-2 0.5 (v) 7/10/2013	HA-3 0.5 (v) 7/10/2013	DP-1 10 (v) 7/8/2013	DP-1 12.5 7/8/2013	DP-2 7.5 (v) 7/8/2013	DP-2 12.5 7/8/2013	DP-3 12.5 7/8/2013	DP-4 7.5 (v) 7/8/2013	DP-4 12.5 7/8/2013	DP-5 7.5 (v) 7/8/2013	DP-6 5 (v) 7/8/2013	DP-6 7.5 (v) 7/8/2013	DP-6 12.5 7/8/2013	DP-7 12.5 7/8/2013	DP-8 12.5 7/8/2013	DP-10 5 (v) 7/8/2013	DP-10 10 (v) 7/8/2013	DP-10 12.5 7/8/2013	DP-10 15 7/8/2013
TPH																						
Total Petroleum Hydrocarbons[1]	**2000**	**2000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	**30**	**30**	mg/kg	–	–	8.8 U	8.5 U	**9.0**	11 U	6.7 U	10 U	9.5 U	**14**	**380**	**51**	**75**	9.1 U	8.1 U	7.1 U	**820**	**4500 J**	**14**
Diesel-range hydrocarbons	**2000**	**2000**	mg/kg	**91**	**110**	5.4 U	**30**	**160**	**53**	**13**	**25**	**60**	**52**	**380**	**210**	**34**	**49**	**55**	**38**	**320**	**87**	**42**
Lube Oil-range Hydrocarbons	**2000**	**2000**	mg/kg	**280**	**340**	**13**	**54**	**640**	**100**	**22**	**44**	**110**	**90**	**480**	**520**	**63**	**96**	**100**	**130**	**140**	**160**	**60**
VOCs																						
1,1,2-Trichloroethane	**17.54**	**17.54**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,2,4-Trimethylbenzene			mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,2-Dichloroethane	**10.989**	**10.989**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,3,5-Trimethylbenzene	**800**	**800**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2-Butanone (MEK)	**48000**	**48000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2-Hexanone	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Acetone	**72000**	**72000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Benzene	**1.1**	**0.058**	mg/kg	–	–	0.022 U	0.021 UJ	**0.031**	0.027 U	0.017 U	0.026 U	**0.3**	**0.1**	**0.11**	0.016 U	0.024 U	0.023 U	0.02 U	**0.026**	0.015 U	**1.6 J**	**0.27**
Bromomethane	**112**	**112**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Carbon Disulfide	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Chloroform	**800**	**800**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Chloromethane	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
cis-1,2-Dichloroethene	**160**	**160**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Dichlorodifluoromethane (CFC-12)	**16000**	**16000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Ethylbenzene	**6.6**	**0.34**	mg/kg	–	–	0.022 U	0.021 U	**0.031**	0.027 U	0.017 U	0.026 U	0.024 U	0.023 U	0.014 U	0.016 U	0.024 U	0.023 U	0.02 U	0.018 U	**0.73**	**8.8**	0.024 U
Isopropylbenzene (Cumene)	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Methyl Iodide (Iodomethane)	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Methylene Chloride	**480**	**480**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
n-Butylbenzene	**4000**	**4000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
n-Propylbenzene	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
p-Isopropyltoluene	**NE**	**NE**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sec-Butylbenzene	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Tert-Butylbenzene	**8000**	**8000**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Tetrachloroethene	**476**	**476**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Toluene	**6400**	**6400**	mg/kg	–	–	0.022 U	0.021 U	**0.021**	**0.043**	0.017 U	0.026 U	0.024 U	**0.05**	**0.21**	0.016 U	0.024 U	**0.023**	0.02 U	**0.019**	**0.025**	0.024 UJ	0.024 U
Trichloroethene	**11.5**	**11.5**	mg/Kg	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Xylene, m-,p-	**16000**	**16000**	mg/kg	–	–	0.044 U	0.043 U	**0.042**	**0.1**	0.033 U	0.051 U	**0.081**	0.046 U	**0.68**	**0.061**	**0.093**	0.046 U	0.04 U	**0.068**	**0.15**	**3 J**	0.049 U
Xylene, o-	**16000**	**16000**	mg/kg	–	–	0.022 U	0.021 U	**0.021**	0.027 U	0.017 U	0.026 U	**0.031**	0.023 U	**0.21**	0.016 U	0.024 U	0.023 U	0.02 U	**0.038**	**0.12**	0.024 UJ	0.024 U

TABLE H-6 - Douglas Property Soil Data

Analyte	Screening Level Vadose Zone	Screening Level Saturated Zone	Unit	DP-11 12.5 7/8/2013	MW-2R 10 (v) 7/11/2013	MW-2R 20 7/11/2013	MW-2R 32.5 7/11/2013	MW-13 12.5 7/12/2013	MW-13 25 7/12/2013	MW-13 32.5 7/12/2013	MW-14 7.5 (v) 7/9/2013	MW-14 17.5 7/9/2013	MW-14 30 7/9/2013	MW-15 12.5 7/9/2013	Unit	MW-15 22.5 7/9/2013	MW-15 35 7/9/2013	MW-16 12.5 7/10/2013	MW-16 25 7/10/2013	MW-16 30 7/10/2013	MW-17 12.5 7/12/2013
TPH																					
Total Petroleum Hydrocarbons[1]	**2000**	**2000**	mg/kg	–	–	–	–	–	–	–	–	–	–	–	mg/kg	–	–	–	–	–	–
Gasoline-range hydrocarbons	**30**	**30**	mg/kg	**29**	7.3 U	8.3 U	7.4 U	7.8 U	10 U	10 U	8.4 U	10 U	**97**	8.7 U	mg/kg	9.4 U	11 U	9.1 U	**150**	7.8 U	7.5 U
Diesel-range hydrocarbons	**2000**	**2000**	mg/kg	**23**	**8.4**	**50 J**	**140**	**11**	**640**	**60**	**28**	**98**	**520**	**99**	mg/kg	**500**	**31**	**57**	**3000**	**30**	**22**
Lube Oil-range Hydrocarbons	**2000**	**2000**	mg/kg	**32**	**17**	**83**	**85**	**22**	**1300**	**170**	**66**	**220**	**900**	**450**	mg/kg	**930**	**62**	**100**	**3800**	**65**	**57**
VOCs																					
1,1,2-Trichloroethane	**17.54**	**17.54**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
1,2,4-Trimethylbenzene			mg/Kg	–	**0.0007 J**	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	**0.0078**	0.0013 U	0.0011 U
1,2-Dichloroethane	**10.989**	**10.989**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
1,3,5-Trimethylbenzene	**800**	**800**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	**0.0020**	0.0013 U	0.0011 U
2-Butanone (MEK)	**48000**	**48000**	mg/kg	–	0.0060 U	**0.038**	**0.015**	0.0054 U	**0.0042 J**	**0.09**	**0.036**	0.0066 U	**0.11**	0.0062 U	mg/kg	**0.025**	0.0074 U	0.0063 U	0.0097 U	**0.013**	**0.0030 J**
2-Hexanone	**NE**	**NE**	mg/Kg	–	0.0060 U	0.0066 U	0.0057 U	0.0054 U	0.0069 U	0.0077 U	0.0066 U	0.0066 U	0.0086 U	0.0062 U	mg/Kg	0.0069 UJ	0.0074 U	0.0063 U	**0.0098**	0.0064 U	0.0057 U
Acetone	**72000**	**72000**	mg/kg	–	**0.032**	**0.22**	**0.1**	**0.032**	**0.048**	**0.59**	**0.3**	**0.038**	**0.71**	**0.069**	mg/kg	**0.22**	**0.051**	0.036 U	0.0097 U	0.08 U	**0.039**
Benzene	**1.1**	**0.058**	mg/kg	0.02 U	**0.015**	**0.014**	**0.0007 J**	**0.0009 J**	0.0014 U	**0.0008 J**	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/kg	**0.0018**	0.0015 U	**0.052**	**0.0027**	0.0013 U	**0.0008 J**
Bromomethane	**112**	**112**	mg/Kg	–	**0.0012 UJ**	0.0013 UJ	0.0011 UJ	0.0011 UJ	0.0014 UJ	0.0015 UJ	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	**0.0037**	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 UJ
Carbon Disulfide	**8000**	**8000**	mg/Kg	–	**0.0054**	**0.0076 J**	**0.0049**	**0.0019**	**0.0063**	**0.011**	**0.0053**	**0.0075**	**0.02**	**0.0026**	mg/kg	0.0014 U	**0.0037**	**0.0040**	**0.015**	**0.0071**	**0.0048**
Chloroform	**800**	**800**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 U	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Chloromethane	**NE**	**NE**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 U	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
cis-1,2-Dichloroethene	**160**	**160**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 U	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Dichlorodifluoromethane (CFC-12)	**16000**	**16000**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 U	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Ethylbenzene	**6.6**	**0.34**	mg/kg	0.02 U	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/kg	0.0014 UJ	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Isopropylbenzene (Cumene)	**8000**	**8000**	mg/Kg	–	**0.0018**	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	**0.0051**	0.0013 U	0.0011 U
Methyl Iodide (Iodomethane)	**NE**	**NE**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	**0.0021**	0.0012 U	mg/Kg	**0.048**	**0.0029**	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Methylene Chloride	**480**	**480**	mg/kg	–	**0.0074**	**0.03**	**0.023**	0.0075 U	0.0053 U	**0.11**	**0.054**	0.012 U	**0.079**	0.0089 U	mg/kg	**0.044**	0.012 U	0.0053 U	0.0080 U	0.02 U	0.0067 U
n-Butylbenzene	**4000**	**4000**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 U	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
n-Propylbenzene	**8000**	**8000**	mg/Kg	–	**0.0021**	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	**0.0023**	0.0013 U	0.0011 U
p-Isopropyltoluene	**NE**	**NE**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 U	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Sec-Butylbenzene	**8000**	**8000**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	**0.0027**	0.0013 U	0.0011 U
Tert-Butylbenzene	**8000**	**8000**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Tetrachloroethene	**476**	**476**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	0.0013 U	0.0019 U	0.0013 U	0.0011 U
Toluene	**6400**	**6400**	mg/kg	0.02 U	**0.0018**	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	**0.0061**	mg/kg	0.0014 UJ	0.0015 U	**0.0008 J**	**0.0015 J**	0.0013 U	0.0011 U
Trichloroethene	**11.5**	**11.5**	mg/Kg	–	0.0012 U	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/Kg	0.0014 UJ	0.0015 U	**0.0052**	0.0019 U	0.0013 U	0.0011 U
Xylene, m-,p-	**16000**	**16000**	mg/kg	0.039 U	**0.0077**	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/kg	0.0014 UJ	0.0015 U	0.0013 U	**0.0022**	0.0013 U	0.0011 U
Xylene, o-	**16000**	**16000**	mg/kg	0.02 U	**0.0008 J**	0.0013 U	0.0011 U	0.0011 U	0.0014 U	0.0015 U	0.0013 U	0.0013 U	0.0017 U	0.0012 U	mg/kg	0.0014 UJ	0.0015 U	0.0013 U	**0.0035**	0.0013 U	0.0011 U

Analyte	Screening Level: Vadose Zone	Screening Level: Saturated Zone	Unit	MW-17 27.5 7/12/2013	MW-17 30 7/12/2013	MW-18 12.5 7/11/2013	MW-18 27.5 7/11/2013	MW-18 35 7/11/2013	MW-19 12.5 7/10/2013	MW-19 20 7/10/2013	MW-19 32.5 7/10/2013
TPH											
Total Petroleum Hydrocarbons[1]	**2000**	**2000**	mg/kg	–	–	–	–	–	–	–	–
Gasoline-range hydrocarbons	**30**	**30**	mg/kg	**2400**	12 U	8.1 U	13 U	7.9 U	7.4 U	9.1 U	12 U
Diesel-range hydrocarbons	**2000**	**2000**	mg/kg	**2100**	**52**	**26**	**1900**	**60**	**110**	**100**	**89**
Lube Oil-range Hydrocarbons	**2000**	**2000**	mg/kg	**4400**	**110**	**47**	**2200**	**93**	**460**	**190**	**170**
VOCs											
1,1,2-Trichloroethane	**17.54**	**17.54**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
1,2,4-Trimethylbenzene			mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.0025**	0.0014 U	0.0018 U
1,2-Dichloroethane	**10.989**	**10.989**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
1,3,5-Trimethylbenzene	**800**	**800**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.0022**	0.0014 U	0.0018 U
2-Butanone (MEK)	**48000**	**48000**	mg/kg	4.4 U	**0.011 J**	0.0068 U	**0.0073 J**	**0.011**	0.0058 U	**0.013**	0.0088 U
2-Hexanone	**NE**	**NE**	mg/Kg	4.4 U	0.0092 U	0.0068 U	0.01 U	0.0061 U	0.0058 U	0.0072 U	0.0088 U
Acetone	**72000**	**72000**	mg/kg	4.4 U	**0.1 J**	**0.032**	**0.082**	**0.082**	0.026 U	0.082 U	0.09 U
Benzene	**1.1**	**0.058**	mg/kg	0.88 U	0.0018 U	0.0014 U	**0.0018 J**	0.0012 U	**0.027**	**0.0031**	0.0018 U
Bromomethane	**112**	**112**	mg/Kg	1.8 UJ	0.0018 UJ	0.0014 UJ	0.0020 UJ	0.0012 UJ	0.0012 U	0.0014 U	0.0018 U
Carbon Disulfide	**8000**	**8000**	mg/kg	0.88 U	**0.013 J**	**0.0051**	**0.0097**	**0.016**	**0.0038**	**0.0098**	**0.0061**
Chloroform	**800**	**800**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
Chloromethane	**NE**	**NE**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
cis-1,2-Dichloroethene	**160**	**160**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
Dichlorodifluoromethane (CFC-12)	**16000**	**16000**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
Ethylbenzene	**6.6**	**0.34**	mg/kg	**64**	**0.0099 J**	0.0014 U	0.0020 U	0.0012 U	**0.0043 J**	0.0014 U	0.0018 U
Isopropylbenzene (Cumene)	**8000**	**8000**	mg/Kg	**1.2**	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.013**	0.0014 U	0.0018 U
Methyl Iodide (Iodomethane)	**NE**	**NE**	mg/Kg	**0.82 J**	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
Methylene Chloride	**480**	**480**	mg/kg	1.8 U	0.0048 U	**0.0076**	**0.0096**	**0.032**	0.0054 U	0.017 U	0.0050 U
n-Butylbenzene	**4000**	**4000**	mg/Kg	**1.7**	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.0012**	0.0014 U	0.0018 U
n-Propylbenzene	**8000**	**8000**	mg/Kg	**2.5**	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.03**	0.0014 U	0.0018 U
p-Isopropyltoluene	**NE**	**NE**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.0014**	0.0014 U	0.0018 U
Sec-Butylbenzene	**8000**	**8000**	mg/Kg	**1.7**	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.0012**	0.0014 U	0.0018 U
Tert-Butylbenzene	**8000**	**8000**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
Tetrachloroethene	**476**	**476**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
Toluene	**6400**	**6400**	mg/kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.0037**	0.0014 U	0.0018 U
Trichloroethene	**11.5**	**11.5**	mg/Kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	0.0012 U	0.0014 U	0.0018 U
Xylene, m-,p-	**16000**	**16000**	mg/kg	1.8 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.021**	0.0014 U	0.0018 U
Xylene, o-	**16000**	**16000**	mg/kg	0.88 U	0.0018 U	0.0014 U	0.0020 U	0.0012 U	**0.0017**	0.0014 U	0.0018 U

Notes:

[1] Samples collected by Dames and Moore were analyzed by an out-of-date method that combined Total Petroleum Hydrocarbons (TPH). Review of chromatographs indicate product is predominantly heavy oil range hydrocarbons. Therefore, the Screening Level for lube oil range hydrocarbons is used to screen the data from this previous study.

J = estimated value

mg/kg = milligrams per kilogram

T = summed result

U = not detected

v = vadose zone soil sample

VOCs = volatile organic compounds

Bold = detected value

Yellow Fill indicates detected result for saturated zone sample > the Screening Level for saturated soil

Orange Fill indicates detected result for vadoze zone sample > the Screening Level for vadose zone soil

Blue Fill indicates not detected with reporting limit > the Screening Level

Table G-2

RI Soil Analytical Data - SVOC and PAH Results

7100 1st Avenue South Site

Seattle, Washington

Analyte	Screening Level Vadose Zone	Screening Level Saturated Zone	Unit	SB-4 8 (v) 12/6/1990	SB-5 13 12/6/1990	MW-8 30 6/18/2008	MW-9 15 6/18/2008	MW-10 20 6/18/2008	MW-11 15 6/19/2008	MW-12 15 6/19/2008	MW-12 25 6/19/2008	HA-1 0.5 (v) 7/10/2013	HA-2 0.5 (v) 7/10/2013	HA-3 0.5 (v) 7/10/2013	MW-2R 10 (v) 7/11/2013
Semivolatile Organic Compounds (SVOCs)															
2,4-Dimethylphenol	**1600**	**1600**	mg/Kg	–	–	0.04 U	0.036 U	0.038 U	0.033 U	0.15 U	0.032 U	0.038 U	0.037 U	0.038 U	0.039 U
Benzoic Acid	**320000**	**320000**	mg/kg	–	–	0.16 U	0.15 U	0.16 U	0.14 U	0.59 U	0.13 U	0.38 U	0.37 U	0.38 U	0.39 U
Benzyl Alcohol	**8000**	**8000**	mg/kg	–	–	0.016 U	0.015 U	0.016 U	0.014 U	0.059 U	0.013 U	0.019 U	0.019 U	**0.045**	0.02 U
Bis(2-Ethylhexyl) Phthalate	**25**	**1.3**	mg/kg	–	–	**0.019 J**	**0.029 J**	**0.038 J**	**0.014 J**	**0.16 J**	**0.1**	**0.24**	**0.12**	**0.17**	**0.018 J**
Butyl benzyl phthalate	**530**	**530**	mg/kg	–	–	0.0079 U	0.0071 U	0.0076 U	0.0066 U	0.03 U	0.0063 U	**0.018 J**	0.019 U	0.019 U	0.02 U
Carbazole	**NE**	**NE**	mg/kg	–	–	–	–	–	–	–	–	**0.02**	0.019 U	**0.02**	0.02 UJ
Dibutyl phthalate	**8000**	**8000**	mg/kg	–	–		0.015 U	0.016 U	0.014 U	0.059 U	0.013 U	**0.0094 J**	0.019 U	0.019 U	0.02 U
Diethyl phthalate	**64000**	**64000**	mg/kg	–	–	0.0079 U	0.0071 U	0.0076 U	**0.0017 J**	0.03 U	0.0063 U	0.047 U	0.047 U	**0.055**	0.049 U
Dimethyl phthalate	**NE**	**NE**	mg/kg	–	–	0.0079 U	0.0071 U	0.0076 U	0.0066 U	0.03 U	0.0063 U	0.019 U	0.019 U	0.019 U	0.02 U
Di-N-Octyl Phthalate	**800**	**800**	mg/kg	–	–	0.0079 U	0.0071 U	0.0076 U	0.0066 U	0.03 U	0.0063 U	**0.017 J**	**0.015 J**	**0.014 J**	0.02 U
Isophorone	**1052.6**	**1052.6**	mg/Kg	–	–	0.0079 U	0.0071 U	0.0076 U	0.0066 U	0.03 U	0.0063 U	0.019 U	0.019 U	0.019 U	0.02 U
N-Nitrosodiphenylamine	**0.020**	**0.020**	mg/Kg	–	–	0.0079 U	0.0071 U	0.0076 U	0.0066 U	0.03 U	0.0063 U	0.019 U	0.019 U	0.019 U	0.02 U
p-Cresol (4-methylphenol)	**8000**	**8000**	mg/kg	–	–	0.0079 U	**0.0017 J**	**0.0051 J**	0.0066 U	0.03 U	0.0063 U	0.019 U	0.019 U	0.019 U	0.02 U
Pentachlorophenol	**0.763**	**0.1**	mg/Kg	–	–	0.079 U	0.071 U	0.076 U	0.066 U	0.3 U	0.063 U	0.19 U	0.19 U	0.19 U	0.2 UJ
Phenol	**24000**	**24000**	mg/kg	–	–	0.024 U	0.022 U	0.023 U	0.02 U	0.088 U	0.019 U	**0.021**	**0.011 J**	**0.02**	0.02 U
Pyridine	**80**	**80**	mg/kg	–	–	–	–	–	–	–	–	0.14 U	0.14 U	0.14 U	0.15 U
Polycyclic Aromatic Hydrocarbons (PAHs)															
1-Methylnaphthalene	**34.5**	**34.5**	mg/kg	–	–	–	–	–	–	–	–	**0.012**	**0.0078 J**	**0.0076 J**	**0.0066**
2-Methylnaphthalene	**320**	**320**	mg/kg	0.04 U	0.05 U	**0.067**	**0.006 J**	**0.054**	**0.0038 J**	**2.2 J**	**0.025**	**0.01**	**0.011**	**0.01 J**	**0.0037 J**
Acenaphthene	**4800**	**4800**	mg/kg	0.04 U	0.05 U	**0.014**	**0.0025 J**	**0.056**	0.0066 U	**0.037 J**	**0.0028 J**	**0.011**	**0.0082 J**	**0.011**	**0.0098**
Acenaphthylene	**NE**	**NE**	mg/kg	0.04 U	0.05 U	**0.0057 J**	**0.0013 J**	**0.0033 J**	0.0066 U	0.03 U	**0.0015 J**	0.01 U	0.011 U	**0.018**	0.0049 U
Anthracene	**NE**	**NE**	mg/kg	0.04 U	0.05 U	**0.014**	**0.0046 J**	**0.018**	**0.0022 J**	**0.021 J**	**0.0065**	**0.019**	**0.015**	**0.032**	0.0049 U
Benzo(ghi)perylene	**7.1**	**0.35**	mg/kg	–	–	**0.013**	0.0071 U	**0.0046 J**	0.0066 U	0.03 U	**0.0049 J**	**0.052**	**0.052**	**0.1**	0.0049 U
Dibenzofuran	**80**	**80**	mg/kg	0.04 U	0.05 U	**0.0096**	**0.0042 J**	**0.023**	**0.0018 J**	**0.022 J**	**0.0024 J**	**0.0072 J**	**0.0056 J**	**0.0059 J**	0.0049 U
Fluoranthene	**3200**	**3200**	mg/kg	0.04 U	**0.056**	**0.056**	**0.025**	**0.26**	**0.0091**	**0.045 J**	**0.033**	**0.15**	**0.086**	**0.14**	**0.0062**
Fluorene	**3200**	**3200**	mg/kg	0.04 U	0.05 U	**0.019**	**0.004 J**	**0.035**	**0.002 J**	**0.051 J**	**0.004 J**	**0.0070 J**	**0.0059 J**	**0.0076 J**	0.0049 U
Naphthalene	**0.39**	**0.019**	mg/kg	0.04 U	0.05 U	**0.065**	**0.0036 J**	**0.031**	0.0066 U	**0.46 J**	**0.0075**	0.0092 U	**0.012**	**0.014**	**0.021**
Phenanthrene	**NE**	**NE**	mg/kg	0.04 U	**0.065**	**0.054**	**0.017**	**0.065**	**0.0076**	**0.1 J**	**0.018**	**0.055**	**0.031**	**0.039**	**0.0059**
Pyrene	**2400**	**2400**	mg/kg	0.04 U	**0.07**	**0.057**	**0.022**	**0.17**	**0.01**	**0.048 J**	**0.027**	**0.17**	**0.074**	**0.19**	**0.0055**
Benzo(a)pyrene	**2.2**	**0.11**	mg/kg	0.08 U	0.1 U	**0.019**	**0.006 J**	**0.0072 J**	**0.0025 J**	**0.015 J**	**0.0069**	**0.053**	**0.051**	**0.18**	0.0049 U
Benzo(a)anthracene	**0.82**	**0.041**	mg/kg	0.04 U	0.05 U	**0.021**	**0.01**	**0.015**	**0.0036 J**	**0.017 J**	**0.0098**	**0.066**	**0.038**	**0.11**	0.0049 U
Benzo(b)fluoranthene	**2.8**	**0.14**	mg/kg	0.08 U	0.1 U	**0.025**	**0.0093**	**0.01**	**0.004 J**	**0.021 J**	**0.0083**	**0.069**	**0.063**	**0.23**	0.0049 U
Benzo(k)fluoranthene	**3.6**	**.18**	mg/kg	0.08 U	0.1 U	**0.0083**	**0.0032 J**	**0.0034 J**	0.0066 U	0.03 U	**0.0029 J**	**0.038**	**0.035**	**0.13**	0.0049 U
Benzofluoranthenes (Sum)	**6.5**	**.31**	mg/kg	–	–	–	–	–	–	–	–	**0.14**	**0.12**	**0.45**	0.0049 U
Chrysene	**2.8**	**.14**	mg/kg	0.04 U	0.05 U	**0.031**	**0.014**	**0.016**	**0.0035 J**	**0.018 J**	**0.013**	**0.11**	**0.063**	**0.28**	**0.0027 J**
Dibenzo(a,h)anthracene	**4.1**	**.2**	mg/kg	0.08 U	0.1 U	0.0079 U	0.0071 U	0.0076 U	0.0066 U	0.03 U	0.0063 U	**0.013**	**0.015**	**0.027**	0.0049 U
Indeno(1,2,3-cd)pyrene	**7.9**	**0.40**	mg/kg	0.08 U	0.1 U	**0.014**	**0.0043 J**	**0.0056 J**	0.0066 U	0.03 U	**0.0052 J**	**0.036**	**0.037**	**0.093**	0.0049 U
Total cPAH TEQ (ND=0.5RL)	**0.14**	**0.11**	mg/kg	0.0582 UT	0.07275 UT	**0.026535 T**	**0.009175 T**	**0.01114 T**	**0.004285 T**	**0.02348 T**	**0.009965 T**	**0.0796 T**	**0.07263 T**	**0.2508 T**	**0.003457 T**

TABLE H-6 - Douglas Property Soil Data

Analyte	Screening Level Vadose Zone	Screening Level Saturated Zone	Unit	MW-2R 20 7/11/2013	MW-2R 32.5 7/11/2013	MW-13 12.5 7/12/2013	MW-13 25 7/12/2013	MW-13 32.5 7/12/2013	MW-14 7.5 (v) 7/9/2013	MW-14 17.5 7/9/2013	MW-14 30 7/9/2013	MW-15 12.5 7/9/2013	MW-15 22.5 7/9/2013	MW-15 35 7/9/2013	MW-16 12.5 7/10/2013
SVOCs															
2,4-Dimethylphenol	1600	1600	mg/Kg	0.039 U	0.039 U	0.092 U	0.29 U	0.3 U	0.038 U	0.037 U	0.038 U	0.037 U	0.038 U	0.038 U	0.038 U
Benzoic Acid	320000	320000	mg/kg	0.39 U	0.39 U	0.18 U	0.58 U	0.59 U	0.38 U	**0.27 J**	**0.39**	**0.11 J**	**0.24 J**	**0.42**	0.38 U
Benzyl Alcohol	8000	8000	mg/kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	**0.14**	**0.14**	**0.067**	**0.073**	**0.24**	**0.024**
Bis(2-Ethylhexyl) Phthalate	25	1.3	mg/kg	**0.041**	**0.044**	0.046 U	**0.35**	0.15 U	0.024 U	**0.18**	**0.052**	**0.06**	**0.17**	**0.015 J**	**0.018 J**
Butyl benzyl phthalate	530	530	mg/kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	**0.035**
Carbazole	NE	NE	mg/kg	**0.08 J**	**0.028 J**	0.018 UJ	0.058 UJ	0.059 UJ	0.019 UJ	0.019 UJ	0.019 UJ	0.019 UJ	0.019 UJ	0.019 UJ	0.019 U
Dibutyl phthalate	8000	8000	mg/kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Diethyl phthalate	64000	64000	mg/kg	0.049 U	**0.054**	0.018 U	0.058 U	0.059 U	0.048 U	0.047 U	0.048 U	0.046 U	0.048 U	0.048 U	0.047 U
Dimethyl phthalate	NE	NE	mg/kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	**0.02**	0.019 U
Di-N-Octyl Phthalate	800	800	mg/kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Isophorone	1052.6	1052.6	mg/Kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
N-Nitrosodiphenylamine	0.020	0.020	mg/kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	0.019 U	0.019 U	0.019 U	**0.031**	0.019 U	0.019 U
p-Cresol (4-methylphenol)	8000	8000	mg/kg	0.02 U	0.02 U	0.018 U	**0.029 J**	0.059 U	0.019 U	**0.024**	**0.036**	**0.01 J**	**0.033**	**0.06**	0.019 U
Pentachlorophenol	0.763	0.1	mg/Kg	0.2 UJ	0.2 UJ	0.092 U	0.29 U	0.3 U	0.19 U	0.19 U	**0.19 U**	**0.19 U**	**0.051 J**	**0.19 U**	0.19 U
Phenol	24000	24000	mg/kg	0.02 U	0.02 U	0.018 U	0.058 U	0.059 U	0.019 U	**0.041**	**0.08**	**0.024**	**0.038**	**0.068**	0.019 U
Pyridine	80	80	mg/kg	0.15 U	0.15 U	0.14 U	0.44 U	0.44 U	0.14 U	0.14 U	**0.046 J**	0.14 U	**0.054 J**	**0.073 J**	0.14 U
PAHs															
1-Methylnaphthalene	34.5	34.5	mg/kg	**0.14 J**	**0.023**	**0.0056**	**0.036 J**	**0.017**	**0.0058**	**0.018**	**0.034**	**0.016**	**0.014 J**	**0.019**	**0.011**
2-Methylnaphthalene	320	320	mg/kg	**0.21 J**	**0.041**	**0.0051**	**0.05 J**	**0.019**	**0.0057**	**0.02**	**0.041**	**0.018**	**0.017**	**0.022 J**	**0.011**
Acenaphthene	4800	4800	mg/kg	**0.35 J**	**0.14**	0.0047 U	**0.04 J**	**0.022**	0.0049 U	**0.0071**	0.016 U	**0.0054**	**0.018**	**0.021 J**	**0.01**
Acenaphthylene	NE	NE	mg/kg	0.0048 U	**0.0030 J**	0.0047 U	0.015 UJ	**0.011**	0.0049 U	**0.0037 J**	**0.012 J**	**0.0036 J**	**0.0097 J**	**0.0079**	0.0046 U
Anthracene	NE	NE	mg/kg	**0.042**	**0.027**	0.0047 U	**0.052 J**	**0.028**	**0.0031 J**	**0.01**	**0.037**	**0.01**	**0.044**	**0.039 J**	**0.0076**
Benzo(ghi)perylene	7.1	0.35	mg/kg	**0.0088**	**0.0047 J**	**0.0042 J**	**0.029 J**	**0.022**	**0.0053**	**0.0083**	**0.02**	**0.01**	**0.048**	**0.031 J**	**0.0076**
Dibenzofuran	80	80	mg/kg	**0.26 J**	**0.046**	0.0047 U	**0.036 J**	**0.025**	**0.0042 J**	**0.012**	**0.018**	**0.0073**	**0.02**	**0.029 J**	**0.0079**
Fluoranthene	3200	3200	mg/kg	**0.19**	**0.086**	**0.01**	**0.24 J**	**0.087**	**0.014**	**0.041**	**0.13**	**0.031**	**0.26**	**0.13 J**	**0.077**
Fluorene	3200	3200	mg/kg	**0.3 J**	**0.083**	0.0047 U	**0.062 J**	**0.028**	**0.0033 J**	**0.011**	**0.023**	**0.0074**	**0.033**	**0.032 J**	**0.0073**
Naphthalene	0.39	0.019	mg/kg	**0.4 J**	**0.077**	**0.0038 J**	**0.045 J**	**0.037**	**0.0042 J**	**0.019**	**0.036**	**0.013**	**0.019**	**0.023 J**	**0.012**
Phenanthrene	NE	NE	mg/kg	**0.47**	**0.27**	**0.0082**	**0.17 J**	**0.075**	**0.014**	**0.032**	**0.069**	**0.032**	**0.082**	**0.069 J**	**0.03**
Pyrene	2400	2400	mg/kg	**0.13**	**0.048**	**0.0094**	**0.18 J**	**0.19**	**0.032**	**0.12**	**0.33**	**0.044**	**0.27**	**0.15**	**0.064**
Benzo(a)pyrene	2.2	0.11	mg/kg	**0.019**	**0.0050**	**0.0028 J**	**0.035 J**	**0.016**	**0.0046 J**	**0.011**	**0.065**	**0.013**	**0.14**	**0.039**	**0.01**
Benzo(a)anthracene	0.82	0.041	mg/kg	**0.036**	**0.01**	**0.0032 J**	**0.065 J**	**0.021**	**0.0056**	**0.016**	**0.069**	**0.012**	**0.14**	**0.049 J**	**0.017**
Benzo(b)fluoranthene	2.8	0.14	mg/kg	**0.019**	**0.0054**	**0.0028 J**	**0.049 J**	**0.018**	**0.0069**	**0.013**	**0.099**	**0.014**	**0.24**	**0.044**	**0.011**
Benzo(k)fluoranthene	3.6	.18	mg/kg	**0.0099**	**0.0029 J**	0.0047 U	**0.022 J**	**0.013**	**0.0027 J**	**0.0069**	**0.055**	**0.0068**	**0.11**	**0.022**	**0.0048**
Benzofluoranthenes (Sum)	6.5	.31	mg/kg	**0.037**	**0.011**	**0.0045 J**	**0.094 J**	**0.041**	**0.012**	**0.025**	**0.2**	**0.026**	**0.44**	**0.083**	**0.02**
Chrysene	2.8	.14	mg/kg	**0.046**	**0.012**	**0.0048**	**0.092 J**	**0.031**	**0.0094**	**0.019**	**0.12**	**0.022**	**0.17**	**0.065 J**	**0.018**
Dibenzo(a,h)anthracene	4.1	.2	mg/kg	**0.0034 J**	0.0049 U	0.0047 U	0.015 UJ	0.0050 U	0.0049 U	0.0048 U	0.016 U	0.0047 U	**0.012 J**	**0.0046 J**	0.0046 U
Indeno(1,2,3-cd)pyrene	7.9	0.40	mg/kg	**0.0068**	**0.0037 J**	0.0047 U	**0.021 J**	**0.0079**	0.0049 U	**0.0044 J**	**0.016**	**0.0049**	**0.049**	**0.016 J**	**0.0050**
Total cPAH TEQ (ND=0.5RL)	0.14	0.11	mg/kg	**0.02778 T**	**0.007835 T**	**0.004088 T**	**0.05467 T**	**0.02355 T**	**0.006944 T**	**0.01597 T**	**0.0955 T**	**0.01775 T**	**0.2058 T**	**0.05491 T**	**0.01461 T**

Analyte	Screening Level Vadose Zone	Screening Level Saturated Zone	Unit	MW-16 25 7/10/2013	MW-16 30 7/10/2013	MW-17 12.5 7/12/2013	MW-17 27.5 7/12/2013	MW-17 30 7/12/2013	MW-18 12.5 7/11/2013	MW-18 27.5 7/11/2013	MW-18 35 7/11/2013	MW-19 12.5 7/10/2013	MW-19 20 7/10/2013	MW-19 32.5 7/10/2013
SVOCs														
2,4-Dimethylphenol	**1600**	**1600**	mg/Kg	0.11 U	0.038 U	0.096 U	0.49 U	0.3 U	0.039 U	0.043 U	0.038 U	0.038 U	0.039 U	0.04 U
Benzoic Acid	**320000**	**320000**	mg/kg	1.1 U	0.38 U	0.19 U	0.97 U	0.59 U	0.39 U	**0.38 J**	0.38 U	0.38 U	**0.12 J**	**0.46**
Benzyl Alcohol	**8000**	**8000**	mg/kg	0.054 U	0.019 U	0.019 U	0.097 U	**0.048 J**	0.02 U	**0.19**	0.019 U	0.019 U	**0.073**	**0.24**
Bis(2-Ethylhexyl) Phthalate	**25**	**1.3**	mg/kg	**0.93**	0.024 U	0.048 U	**2.5**	0.15 U	**0.066**	**0.26**	**0.033**	**0.038**	**0.032**	0.025 U
Butyl benzyl phthalate	**530**	**530**	mg/kg	0.054 U	0.019 U	0.019 U	**0.42**	0.059 U	0.02 U	0.022 U	0.019 U	0.019 U	0.02 U	0.02 U
Carbazole	**NE**	**NE**	mg/kg	0.054 U	0.019 U	0.019 UJ	0.097 UJ	0.059 UJ	0.02 U	0.022 U	**0.01 J**	**0.26 J**	**0.013 J**	0.02 U
Dibutyl phthalate	**8000**	**8000**	mg/kg	0.054 U	0.019 U	0.019 U	**0.22**	0.059 U	0.02 U	0.022 U	0.019 U	**0.13 J**	0.02 U	0.02 U
Diethyl phthalate	**64000**	**64000**	mg/kg	0.13 U	0.047 U	0.019 U	0.097 U	0.059 U	0.049 U	0.054 U	**0.045 J**	**0.072**	0.049 U	0.049 U
Dimethyl phthalate	**NE**	**NE**	mg/kg	0.054 U	0.019 U	0.019 U	0.097 U	0.059 U	0.02 U	0.022 U	0.019 U	0.019 U	0.02 U	0.02 U
Di-N-Octyl Phthalate	**800**	**800**	mg/kg	**0.2**	0.019 U	0.019 U	0.097 U	0.059 U	0.02 U	**0.069 NJ**	0.019 U	0.019 U	0.02 U	0.02 U
Isophorone	**1052.6**	**1052.6**	mg/Kg	0.054 U	0.019 U	0.019 U	0.097 U	0.059 U	0.02 U	0.022 U	0.019 U	0.019 U	0.02 U	0.02 U
N-Nitrosodiphenylamine	**0.020**	**0.020**	mg/kg	0.054 U	0.019 U	0.019 U	**0.33**	0.059 U	0.02 U	0.022 U	0.019 U	0.019 U	0.02 U	0.02 U
p-Cresol (4-methylphenol)	**8000**	**8000**	mg/kg	0.054 U	0.019 U	0.019 U	0.097 U	0.059 U	0.02 U	**0.046**	0.019 U	0.019 U	**0.045**	**0.064**
Pentachlorophenol	**0.763**	**0.1**	mg/Kg	0.54 U	0.19 U	0.096 U	0.49 U	0.3 U	0.2 U	**0.22 U**	0.19 UJ	0.19 U	**0.2 U**	**0.2 U**
Phenol	**24000**	**24000**	mg/kg	0.054 U	0.019 U	0.019 U	**0.088 J**	**0.095**	0.02 U	**0.092**	0.019 U	0.019 U	**0.021**	**0.089**
Pyridine	**80**	**80**	mg/kg	0.4 U	0.14 U	0.14 U	0.73 U	0.44 U	0.15 U	**0.11 J**	0.14 U	0.14 U	0.15 U	0.15 U
PAHs														
1-Methylnaphthalene	**34.5**	**34.5**	mg/kg	**0.38**	**0.01**	**0.0084**	**0.38**	**0.063 J**	**0.013**	**0.2**	**0.012**	**0.44 J**	**0.048**	**0.024**
2-Methylnaphthalene	**320**	**320**	mg/kg	**0.2**	**0.0097**	**0.0095**	**0.54**	**0.08 J**	**0.013**	**0.19**	**0.0080**	**0.35 J**	**0.048**	**0.039**
Acenaphthene	**4800**	**4800**	mg/kg	0.038 U	**0.037**	**0.0097**	**0.15**	**0.038 J**	**0.014**	**0.25**	**0.21**	**0.82 J**	**0.052**	**0.047**
Acenaphthylene	**NE**	**NE**	mg/kg	0.038 U	**0.0042 J**	**0.0035 J**	**0.032 J**	**0.036 J**	0.0048 U	0.02 U	0.0046 U	0.0048 UJ	0.0048 U	0.0049 U
Anthracene	**NE**	**NE**	mg/kg	**0.87**	**0.012**	**0.0059**	**0.072**	**0.066 J**	**0.0096**	**0.37**	**0.013**	**0.047**	**0.029**	**0.082**
Benzo(ghi)perylene	**7.1**	**0.35**	mg/kg	**0.21**	**0.01**	**0.0075**	0.033 U	**0.056 J**	**0.0066**	**0.14**	**0.0065**	**0.02**	**0.018**	**0.032**
Dibenzofuran	**80**	**80**	mg/kg	**0.21**	**0.01**	**0.0072**	**0.072**	**0.04 J**	**0.015**	**0.12**	**0.0065**	**0.41**	**0.036**	**0.068**
Fluoranthene	**3200**	**3200**	mg/kg	**1.4**	**0.057**	**0.027**	**0.29**	**0.21 J**	**0.038**	**0.93**	**0.043**	**0.11**	**0.099**	**0.37**
Fluorene	**3200**	**3200**	mg/kg	**0.4**	**0.015**	**0.0076**	**0.2**	**0.054 J**	**0.016**	**0.22**	**0.058**	**0.41**	**0.03**	**0.064**
Naphthalene	**0.39**	**0.019**	mg/kg	**0.21**	**0.017**	**0.012**	**0.11**	**0.1 J**	**0.014**	**0.2**	**0.014**	**0.51 J**	**0.068**	**0.066**
Phenanthrene	**NE**	**NE**	mg/kg	**1.2**	**0.045**	**0.03**	**0.52**	**0.17 J**	**0.042**	**0.55**	**0.082**	**0.36**	**0.11**	**0.12**
Pyrene	**2400**	**2400**	mg/kg	**1.6**	**0.043**	**0.066**	**0.35**	**0.29 J**	**0.034**	**0.92**	**0.039**	**0.089**	**0.087**	**0.26**
Benzo(a)pyrene	**2.2**	**0.11**	mg/kg	**0.31**	**0.012**	**0.0082**	**0.062**	**0.065 J**	**0.0076**	**0.24**	**0.0084**	**0.024**	**0.028**	**0.042**
Benzo(a)anthracene	**0.82**	**0.041**	mg/kg	**0.45**	**0.015**	**0.0085**	**0.077**	**0.094 J**	**0.012**	**0.46**	**0.014**	**0.034**	**0.04**	**0.073**
Benzo(b)fluoranthene	**2.8**	**0.14**	mg/kg	**0.29**	**0.011**	**0.0086**	**0.076**	**0.067 J**	**0.0089**	**0.22**	**0.0097**	**0.026**	**0.023**	**0.041**
Benzo(k)fluoranthene	**3.6**	**.18**	mg/kg	**0.16**	**0.0054**	**0.0035 J**	**0.059**	**0.036 J**	**0.0037 J**	**0.13**	**0.0049**	**0.012**	**0.011**	**0.022**
Benzofluoranthenes (Sum)	**6.5**	**.31**	mg/kg	**0.58**	**0.021**	**0.016**	**0.17**	**0.13 J**	**0.017**	**0.46**	**0.019**	**0.05**	**0.045**	**0.083**
Chrysene	**2.8**	**.14**	mg/kg	**0.73**	**0.015**	**0.015**	**0.14**	**0.094 J**	**0.015**	**1**	**0.02**	**0.063**	**0.049**	**0.074**
Dibenzo(a,h)anthracene	**4.1**	**.2**	mg/kg	**0.063**	0.0047 U	0.0050 U	0.033 U	0.016 UJ	0.0048 U	**0.035**	0.0046 U	**0.0073**	**0.0058**	**0.0084**
Indeno(1,2,3-cd)pyrene	**7.9**	**0.40**	mg/kg	**0.13**	**0.0070**	**0.0037 J**	0.033 U	**0.035 J**	**0.0040 J**	**0.11**	**0.0043 J**	**0.014**	**0.013**	**0.023**
Total cPAH TEQ (ND=0.5RL)	**0.14**	**0.11**	mg/kg	**0.4396 T**	**0.01669 T**	**0.01142 T**	**0.0914 T**	**0.09264 T**	**0.01129 T**	**0.3565 T**	**0.01256 T**	**0.03516 T**	**0.03887 T**	**0.06148 T**

Notes:

cPAH = carcinogenic PAH
J = estimated value
mg/kg = milligrams per kilogram
NE = A Screening Level was not established for this analytes (See Table 10)
PAHs = polycyclic aromatic hydrocarbons
SVOCs = semivolatile organic compounds
T = summed result
TEQ = toxicity equivalent
U = not detected
v = vadose zone soil sample
Bold = detected value

Yellow Fill indicates detected result for saturated zone sample > the Screening Level for saturated soil
Orange Fill indicates detected result for vadoze zone sample > the Screening Level for vadose zone soil

Table G-3

RI Soil Analytical Data - PCBs, Pesticides, and Metals Results

7100 1st Avenue South Site

Seattle, Washington

Analyte	Screening Level: Vadose Zone	Screening Level: Saturated Zone	Unit	MW-8 30 ft 6/18/2008	MW-9 15 6/18/2008	MW-10 20 6/18/2008	MW-11 15 6/19/2008	MW-12 15 6/19/2008	MW-12 25 6/19/2008	HA-1 0.5 (v) 7/10/2013	HA-2 0.5 (v) 7/10/2013	HA-3 0.5 (v) 7/10/2013	MW-2R 10 (v) 7/11/2013	MW-2R 20 7/11/2013
Polychlorinated biphenyls (PCBs)														
PCB-aroclor 1242	1.2	0.058	mg/Kg	0.0078 U	0.0071 U	0.76 U	0.0067 U	0.0059 U	0.063 U	0.039 U	0.038 U	0.039 U	0.0040 U	0.0038 U
PCB-aroclor 1248	1.9	.096	mg/kg	0.0078 U	0.081 U	15 J	0.0067 U	0.0059 U	0.8 J	0.78 U	0.58 U	0.27	0.0059 U	0.1
PCB-aroclor 1254	0.5	.049	mg/kg	0.08	0.17	12 J	0.059	0.24	0.53 J	0.96	1	0.41	0.03 U	0.13
PCB-aroclor 1260	0.5	.28	mg/kg	0.1	0.12	0.76 U	0.0067 U	0.0059 U	0.4 J	0.49	0.83	0.26	0.15	0.074
Total PCBs	0.5	.035	mg/kg	0.18 T	0.29 T	27 T	0.059 T	0.24 T	1.73 T	1.45 T	1.83 T	0.94 T	0.15 T	0.304 T
Pesticides														
2,4'-DDD	0.0052	0.00026	mg/kg	0.0068 J	0.0037 U	1.3 J	0.0014 U	0.0025 U	0.0085 U	0.00353	0.000565	0.00514	0.0000993 U	0.000578
2,4'-DDE	0.0098	0.00049	mg/kg	0.001 J	0.0026 U	0.064 U	0.00067 U	0.00059 U	0.00063 U	0.00164	0.000188	0.00269	0.0000993 U	0.000130 U
2,4'-DDT	0.078	0.00389	mg/kg	0.0061	0.0094	0.48 J	0.0034	0.013 J	0.022	0.000653	0.000105 U	0.000471	0.0000993 U	0.000130 U
4,4'-DDD	0.0052	0.00026	mg/kg	0.0027	0.0048	0.16 J	0.0013	0.0016	0.014	0.0100	0.00179	0.0151	0.000455 J	0.00216
4,4'-DDE	0.0098	0.00049	mg/kg	0.0015 J	0.0044 U	0.16 J	0.00067 U	0.00069 U	0.013 J	0.0243	0.00314	0.0400	0.0000922 J	0.000633
4,4'-DDT	0.078	0.0039	mg/kg	0.0027 U	0.019	0.093 J	0.0035	0.0096	0.021	0.00210	0.000168	0.00146	0.0000993 U	0.000130 U
Aldrin	0.006	0.0003	mg/Kg	0.00078 U	0.00071 U	0.0076 U	0.00067 U	0.00059 U	0.00063 U	0.000158 U	0.000159 U	0.000160 U	0.000156 U	0.000158 U
Alpha-BHC	0.159	0.159	mg/Kg	–	–	–	–	–	–	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Beta-BHC	0.56	0.56	mg/Kg	–	–	–	–	–	–	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Chlorpyrifos	0.01	0.0005	mg/Kg	–	–	–	–	–	–	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Delta-BHC	NE	NE	mg/Kg	–	–	–	–	–	–	0.0000970 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Dieldrin	0.029	0.0015	mg/kg	0.00078 U	0.0023 U	0.0076 U	0.00067 U	0.001 U	0.0037 U	0.000587	0.000210 U	0.000531	0.000200 U	0.000260 U
Endosulfan II	480	480	mg/kg	–	–	–	–	–	–	0.000200 U	0.00432 U	0.00298	0.000200 UJ	0.000260 U
Endosulfan Sulfate	480	480	mg/Kg	–	–	–	–	–	–	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Endrin	24	24	mg/Kg	–	–	–	–	–	–	0.000200 U	0.000210 U	0.000209 U	0.000200 U	0.000260 U
Endrin Ketone	24	24	mg/Kg	–	–	–	–	–	–	0.000200 U	0.000210 U	0.000209 U	0.000200 U	0.000260 U
Heptachlor	0.001	0.0001	mg/Kg	0.00078 U	0.00071 U	0.0076 U	0.00067 U	0.00059 U	0.00063 U	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Heptachlor Epoxide	0.021	0.001	mg/Kg	–	–	–	–	–	–	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Hexachlorobenzene	0.018	0.00091	mg/kg	0.0079 U	0.0071 U	0.0076 U	0.0066 U	0.03 U	0.0063 U	0.000138	0.0000974 J	0.000154	0.0000993 U	0.000130 U
Isodrin	NE	NE	mg/Kg	–	–	–	–	–	–	0.000193 U	0.000210 U	0.000209 U	0.000199 U	0.000260 U
Lindane (Gamma-BHC)	24	24	mg/Kg	0.00078 U	0.00071 U	0.0076 U	0.00067 U	0.00059 U	0.00063 U	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Methoxychlor	400	400	mg/kg	–	–	–	–	–	–	0.000189	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
Mirex	16	16	mg/Kg	–	–	–	–	–	–	0.0000962 U	0.000105 U	0.000105 U	0.0000993 U	0.000130 U
trans-Nonachlor	NE	NE	mg/kg	–	–	–	–	–	–	0.000478	0.000155	0.00126	0.0000993 U	0.000130 U
alpha-Chlordane (cis)	0.0069	0.00035	mg/kg	–	–	–	–	–	–	0.000755	0.000183	0.00195	0.0000993 U	0.000238
gamma-Chlordane	0.0069	0.00035	mg/kg	–	–	–	–	–	–	0.00117	0.000254	0.00286	0.0000993 U	0.000346 J
Metals														
Arsenic	20	20	mg/kg	19.7	7.28	10.5	3.72	4	4.66	16.5	21.2	15.0	4.0	4.5
Cadmium	80	80	mg/kg	1.66 J	0.348 J	0.16 J	0.146	0.43	0.181	0.6	0.4	0.5	0.1	0.3
Chromium	120000	120000	mg/kg	69.5	20.6	22.7	13.3	16.7	12.1	30.6	29.3	29.3	12.9	16.1
Copper	36	36	mg/kg	42.9	28.7	37.6	17.3	23.3	18.2	57.7	47.6	55.4	12.8	19.6
Lead	250	250	mg/kg	562 J	11.6 J	10.9 J	5.81	22.5	15	78.9	53.0	71.9	4.1	9.7
Mercury	0.07	0.07	mg/kg	0.165	0.129	0.635	0.068	0.098	0.135	0.36	0.17	0.69	0.03	0.06
Nickel	48	48	mg/kg	–	–	–	–	–	–	26.6	25.9	26.3	10.9	13.1
Silver	400	400	mg/Kg	0.303	0.231	0.112	0.087	0.065	0.056	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
Zinc	110	85	mg/kg	835	64.7	48.4	41.5	119	40.4	187	147	143	35	52

Analyte	Screening Level: Vadose Zone	Screening Level: Saturated Zone	Unit	MW-2R 32.5 7/11/2013	MW-13 12.5 7/12/2013	MW-13 25 7/12/2013	MW-13 32.5 7/12/2013	MW-14 7.5 (v) 7/9/2013	MW-14 17.5 7/9/2013	MW-14 30 7/9/2013	MW-15 12.5 7/9/2013	MW-15 22.5 7/9/2013	MW-15 35 7/9/2013	MW-16 12.5 7/10/2013
PCBs														
PCB-aroclor 1242	1.2	0.058	mg/Kg	0.0038 U	0.0038 U	0.19 U	0.0040 U	0.0038 U	0.019 U	0.019 U	0.019 U	0.038 U	0.0038 U	0.0039 U
PCB-aroclor 1248	1.9	.096	mg/kg	0.0038 U	0.0095 U	2.2	0.0060 U	0.036	0.15	0.048 U	0.11	0.6	0.0038 U	0.062
PCB-aroclor 1254	0.5	.049	mg/kg	0.0034 J	0.043	2.6	0.0066	0.095	0.47	0.25	0.3	1	0.0038 U	0.13
PCB-aroclor 1260	0.5	.28	mg/kg	0.0021 J	0.017	1.1	0.0030 J	0.032	0.14	0.23	0.06	0.41	0.0038 U	0.047
Total PCBs	0.5	.035	mg/kg	0.0055 T	0.06 T	5.9 T	0.0096 T	0.163 T	0.76 T	0.48 T	0.47 T	2.01 T	0.0095 UT	0.239 T
Pesticides														
2,4'-DDD	0.0052	0.00026	mg/kg	0.0000973 U	0.000244	0.00328	0.000129 U	0.00160 J	0.000550	0.00564	0.000348	0.000916	0.000115 U	0.000927
2,4'-DDE	0.0098	0.00049	mg/kg	0.0000973 U	0.000105 U	0.000629	0.000129 U	0.000136	0.000108 U	0.00179	0.000103 U	0.000399	0.000115 U	0.000104 J
2,4'-DDT	0.078	0.00389	mg/kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000121	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
4,4'-DDD	0.0052	0.00026	mg/kg	0.000150	0.00128	0.0129	0.000152	0.00525 J	0.00362	0.0461 J	0.00117	0.0102	0.000115 U	0.00443 J
4,4'-DDE	0.0098	0.00049	mg/kg	0.0000703 J	0.000239	0.00737	0.000129 U	0.00217 J	0.000876	0.0241 J	0.000456	0.0176	0.000115 U	0.00148
4,4'-DDT	0.078	0.0039	mg/kg	0.0000973 U	0.0000653 J	0.000288	0.000129 U	0.000474	0.000108 U	0.00198	0.000113	0.000110 U	0.000115 U	0.0000560 J
Aldrin	0.006	0.0003	mg/Kg	0.000159 U	0.000160 U	0.000157 U	0.000160 U	0.000159 U	0.000155 U	0.000490 U	0.000160 U	0.000156 U	0.000157 U	0.000159 U
Alpha-BHC	0.159	0.159	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000176 U	0.000115 U	0.000110 U
Beta-BHC	0.56	0.56	mg/kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000144 U	0.000115 U	0.000110 U
Chlorpyrifos	0.01	0.0005	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Delta-BHC	NE	NE	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Dieldrin	0.029	0.0015	mg/kg	0.000200 U	0.000271	0.000243 U	0.000258 U	0.000240 U	0.000216 U	0.000979 U	0.000206 U	0.000220 U	0.000229 U	0.000219 U
Endosulfan II	480	480	mg/kg	0.000200 U	0.000209 U	0.00232 NJ	0.000258 U	0.00955 UJ	0.000216 U	0.000979 U	0.000206 U	0.000220 U	0.000229 U	0.00392 UJ
Endosulfan Sulfate	480	480	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Endrin	24	24	mg/Kg	0.000200 U	0.000209 U	0.000243 U	0.000258 U	0.000240 U	0.000216 U	0.000979 U	0.000206 U	0.000220 U	0.000229 U	0.000219 U
Endrin Ketone	24	24	mg/Kg	0.000200 U	0.000209 U	0.000243 U	0.000258 U	0.000240 U	0.000216 U	0.000490 U	0.000206 U	0.000220 U	0.000229 U	0.000219 U
Heptachlor	0.001	0.0001	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Heptachlor Epoxide	0.021	0.001	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Hexachlorobenzene	0.018	0.00091	mg/kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Isodrin	NE	NE	mg/Kg	0.000195 U	0.000209 U	0.000243 U	0.000258 U	0.000240 U	0.000216 U	0.000979 U	0.000206 U	0.000220 U	0.000229 U	0.000219 U
Lindane (Gamma-BHC)	24	24	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Methoxychlor	400	400	mg/kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
Mirex	16	16	mg/Kg	0.0000973 U	0.000105 U	0.000122 U	0.000129 U	0.000120 U	0.000108 U	0.000490 U	0.000103 U	0.000110 U	0.000115 U	0.000110 U
trans-Nonachlor	NE	NE	mg/kg	0.0000973 U	0.000105 U	0.000144	0.000129 U	0.0000998 J	0.000108 U	0.000490 U	0.000103 U	0.000111	0.000115 U	0.000110 U
alpha-Chlordane (cis)	0.0069	0.00035	mg/kg	0.0000973 U	0.0000759 J	0.000447	0.000129 U	0.000403	0.000108 U	0.000490 U	0.0000746 J	0.000177	0.000115 U	0.000175
gamma-Chlordane	0.0069	0.00035	mg/kg	0.0000973 U	0.000103 J	0.000766	0.000129 U	0.000523	0.000135	0.000490 U	0.000107	0.000426	0.000115 U	0.000254
Metals														
Arsenic	20	20	mg/kg	3.4	3.1	7.5	9.0	4.8	11.8	18.9	5.4	12.9	10.8	5.5
Cadmium	80	80	mg/kg	0.1	0.1	0.6	0.2	0.3 J	0.6 J	2.2 J	0.3 J	1.0 J	0.2 J	0.2
Chromium	120000	120000	mg/kg	11.9	12.7	25.7	22.5	16.4	24.6	42.9	16.1	49	20.4	17.1
Copper	36	36	mg/kg	14.6	16.9	39.3	41.3	22.9	44.0	61.9	20.3	55.2	36.0	22.4
Lead	250	250	mg/kg	3.3	5.6	49.3	12.9	9.5 J	18.9 J	122 J	8.8 J	125 J	11.5 J	8.5
Mercury	0.07	0.07	mg/kg	0.03	0.07 J	0.11 J	0.16 J	0.08	0.22	0.33	0.07	1.75	0.16	0.10
Nickel	48	48	mg/kg	12.6	13.0	17.9	21.0	15.9	21.5	26.1	15.0	22.6	18.7	15.4
Silver	400	400	mg/Kg	0.2 U	0.2 U	0.5	0.3 U	0.3 U	0.4	0.6	0.3 U	0.8	0.3 U	0.2 U
Zinc	110	85	mg/kg	33	160	90	64	56	91	179	51	153	58	55

TABLE H-6 - Douglas Property Soil Data

Analyte	Screening Level		Unit	MW-16	MW-16	MW-17	MW-17	MW-17	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19	MWA	MWB	MWC
	Vadose Zone	Saturated Zone		25	30	12.5	27.5	30	12.5	27.5	35	12.5	20	32.5	26	26	26
				7/10/2013	7/10/2013	7/12/2013	7/12/2013	7/12/2013	7/11/2013	7/11/2013	7/11/2013	7/10/2013	7/10/2013	7/10/2013	2/27/2015	2/27/2015	2/27/2015
PCBs																	
PCB-aroclor 1242	1.3	0.06	mg/Kg	0.032 U	0.0039 U	0.0037 U	1.3 U	0.0039 U	0.0038 U	0.039 U	0.0038 U	0.0039 U	0.0038 U	0.0040 U	0.004 U	0.0039 U	0.0039 U
PCB-aroclor 1248	1.9	.096	mg/kg	0.081 U	0.0039 U	0.037 U	**21**	**0.16**	**0.034**	0.19 U	0.0058 U	**0.021**	**0.06**	0.0040 U	0.012 U	0.039 U	0.0059 U
PCB-aroclor 1254	0.5	.049	mg/kg	**0.35**	0.0039 U	**0.17**	**18**	**0.13**	**0.09**	**0.75**	**0.017**	**0.073**	**0.13**	0.0040 U	0.023	0.014 J	0.014
PCB-aroclor 1260	0.5	.28	mg/kg	**0.24**	0.0039 U	**0.043**	**8.8**	**0.063**	**0.028**	**0.28**	**0.0098**	**0.041**	**0.046**	0.0040 U	0.0084	0.0063	0.0037 J
Total PCBs	0.5	.035	mg/kg	**0.59 T**	0.0039 UT	**0.213 T**	**47.8 T**	**0.353 T**	**0.152 T**	**1.03 T**	**0.0268 T**	**0.135 T**	**0.236 T**	0.0040 UT	0.045	0.048	0.028
Pesticides																	
2,4'-DDD	0.0052	0.00026	mg/kg	**0.0346 J**	**0.0000809 J**	**0.000437 J**	**0.0814 J**	**0.000823**	**0.000742**	**0.00304**	0.0000982 U	**0.000295**	**0.000589**	0.000124 U	–	–	–
2,4'-DDE	0.0098	0.00049	mg/kg	**0.0140 J**	0.000103 U	0.000106 U	**0.00303**	**0.000145**	0.000112 U	**0.00200 J**	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
2,4'-DDT	0.078	0.00389	mg/kg	0.00142 UJ	0.000103 U	0.000106 U	0.000412 U	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
4,4'-DDD	0.0052	0.00026	mg/kg	**0.796 J**	**0.000857**	**0.00174 J**	**0.314 J**	**0.00438**	**0.00410**	**0.0391 J**	**0.000461**	**0.00121**	**0.00234**	0.000124 U	–	–	–
4,4'-DDE	0.0098	0.00049	mg/kg	**0.265 J**	**0.000425**	**0.000412 J**	**0.169 J**	**0.00186**	**0.00113**	**0.0330 J**	**0.000354**	**0.000321**	**0.000705**	0.000124 U	–	–	–
4,4'-DDT	0.078	0.0039	mg/kg	0.00142 UJ	0.000103 U	0.000106 U	**0.00126**	0.000125 U	**0.0000973 J**	0.000506 U	0.0000982 U	0.000102 U	**0.000187**	0.000124 U	–	–	–
Aldrin	0.006	0.0003	mg/Kg	0.00186 UJ	0.000160 U	0.000160 U	0.000412 U	0.000155 U	0.000158 U	0.000506 U	0.000157 U	0.000158 U	0.000160 U	0.000159 U	–	–	–
Alpha-BHC	0.159	0.159	mg/Kg	0.00142 UJ	0.000103 U	0.000106 U	0.000412 UJ	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Beta-BHC	0.56	0.56	mg/Kg	0.00142 UJ	0.000103 U	0.000106 U	0.000412 UJ	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Chlorpyrifos	0.01	0.0005	mg/Kg	0.00142 UJ	0.000103 U	0.000106 U	0.000412 U	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Delta-BHC	NE	NE	mg/Kg	0.00142 UJ	0.000103 U	0.000106 U	0.000412 UJ	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Dieldrin	0.029	0.0015	mg/kg	0.00284 UJ	0.000205 U	0.000212 U	**0.0577 J**	0.000250 U	0.000223 U	0.00102 U	0.000200 U	0.000203 U	0.000223 U	0.000247 U	–	–	–
Endosulfan II	480	480	mg/kg	0.00284 UJ	0.000205 U	0.000613 UJ	**0.0123**	0.000250 U	0.000701 U	0.00102 U	0.000200 U	0.000423 U	0.00342 U	0.000247 U	–	–	–
Endosulfan Sulfate	480	480	mg/kg	0.00142 UJ	0.000103 U	0.000106 U	**0.000412 U**	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Endrin	24	24	mg/kg	0.00284 UJ	0.000205 U	0.000212 U	**0.000823 U**	0.000250 U	0.000223 U	0.00102 U	0.000200 U	0.000203 U	0.000223 U	0.000247 U	–	–	–
Endrin Ketone	24	24	mg/kg	0.00284 UJ	0.000205 U	0.000212 U	**0.000412 U**	0.000250 U	0.000223 U	0.000506 U	0.000200 U	0.000203 U	0.000223 U	0.000247 U	–	–	–
Heptachlor	0.001	0.0001	mg/Kg	0.00142 UJ	0.000103 U	0.000106 U	**0.000412 U**	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Heptachlor Epoxide	0.021	0.001	mg/Kg	0.00142 UJ	0.000103 U	0.000106 U	**0.000412 U**	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Hexachlorobenzene	0.018	0.00091	mg/kg	0.00142 UJ	0.000103 U	0.000106 U	**0.000300 J**	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Isodrin	NE	NE	mg/Kg	0.00284 UJ	0.000205 U	0.000212 U	0.000823 U	0.000250 U	0.000223 U	0.00102 U	0.000197 U	0.000203 U	0.000223 U	0.000247 U	–	–	–
Lindane (Gamma-BHC)	24	24	mg/kg	0.00142 UJ	0.000103 U	**0.0000777 J**	0.000412 UJ	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Methoxychlor	400	400	mg/kg	0.00142 UJ	0.000103 U	0.000106 U	0.000412 U	0.000125 U	0.000112 U	**0.00143**	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
Mirex	16	16	mg/kg	0.00142 UJ	0.000103 U	0.000106 U	0.000412 UJ	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
trans-Nonachlor	NE	NE	mg/kg	0.00142 UJ	0.000103 U	0.000106 U	**0.00157**	0.000125 U	0.000112 U	0.000506 U	0.0000982 U	0.000102 U	0.000112 U	0.000124 U	–	–	–
alpha-Chlordane (cis)	0.0069	0.00035	mg/kg	0.00142 UJ	0.000103 U	**0.0000825 J**	**0.00499**	**0.0000801 J**	**0.0000902 J**	0.000506 U	0.0000982 U	**0.0000896 J**	**0.000136**	0.000124 U	–	–	–
gamma-Chlordane	0.0069	0.00035	mg/kg	0.00142 UJ	0.000103 U	**0.000109**	**0.00656**	**0.000123 J**	**0.000167**	0.000506 U	0.0000982 U	**0.000111**	**0.000182**	0.000124 U	–	–	–
Metals																	
Arsenic	20	20	mg/kg	**18.9**	**6.0**	**4.2**	**7.2**	**10.8**	**4.5**	**20.9**	**4.5**	**4.9**	**6.9**	**10.7**	–	–	–
Cadmium	80	80	mg/kg	**2.4**	**0.2**	**0.2**	**0.8**	**0.4**	**0.3**	**2.8**	**0.2**	**0.2**	**0.3**	**0.3**	–	–	–
Chromium	120000	120000	mg/kg	**59.6**	**16.1**	**13.8**	**41.0**	**28.2**	**14.4**	**70.1**	**17.2**	**16.1**	**17.6**	**29.9**	–	–	–
Copper	36	36	mg/kg	**97.4**	**21.1**	**16.0**	**62.6**	**49.8**	**17.1**	**75.4**	**14.2**	**18.5**	**25.0**	**47.9**	–	–	–
Lead	250	250	mg/kg	**402**	**5.3**	**5.7**	**223**	**23.3**	**7.1**	**508**	**11.7**	**8.8**	**11.7**	**12.6**	–	–	–
Mercury	0.07	0.07	mg/kg	**0.37**	**0.05**	**0.07 J**	**0.83 J**	**0.27 J**	**0.06**	**0.26**	0.03 U	**0.16**	**0.09**	**0.19**	–	–	–
Nickel	48	48	mg/kg	**27.6**	**14.6**	**11.6**	**13.7**	**24.0**	**12.5**	**28.3**	**10.8**	**15.0**	**16.1**	**30.3**	–	–	–
Silver	400	400	mg/Kg	**0.5**	**0.2 U**	**0.3 U**	**0.3**	**0.3 U**	**0.3 U**	**0.6**	0.2 U	**0.2 U**	**0.3 U**	**0.3 U**	–	–	–
Zinc	110	85	mg/kg	**430**	**40**	**41**	**120**	**81**	**42**	**640**	**45**	**46**	**58**	**70**	–	–	–

Notes:

J = estimated value

mg/kg = milligrams per kilogram

NE = A Screening Level was not established for this analytes (See Table 10)

PCBs = polychlorinatd biphenyls

T = summed result

U = not detected

v = vadose zone soil sample

Bold = detected value

Yellow Fill indicates detected result for saturated zone sample > the Screening Level for saturated soil

Orange Fill indicates detected result for vadoze zone sample > the Screening Level for vadose zone soil

Blue Fill indicates not detected with reporting limit > the Screening Level

APPENDIX I
STORM WATER SYSTEM SAMPLE ANALYSES

REMEDIAL INVESTIGATION REPORT
ICS/NWC RI/FS
SEATTLE, WASHINGTON

- **TABLE I.1** – EARLY STORM WATER SYSTEM SOLIDS SAMPLE ANALYSES (1991 AND 2007)
- **TABLE I.2** – EARLY STORM WATER SYSTEM WATER SAMPLE ANALYSES (2007)
- **TABLE I.3** – STORM WATER SYSTEM SAMPLE ANALYSES (2012 AND 2015)

TABLE I.1 - Early Storm Water System Solids Sample Analyses

Location	Manhole	Sed. 5 (c)
Date	1991 (MH1)	May-07
Source	(a)	(b)
Coordinate X	-----	-----
Coordinate Y	-----	-----
Depth (cm)	-----	<15
Units	(mg/kg)	(mg/kg)
Total Solids (%)	-----	**71.7**
Total Organic Carbon (%)	-----	**1.88**
Petroleum Hydrocarbons		
Gasoline Range Organics	-----	<20
Diesel Range Organics	-----	**280**
Residual Range Organics	-----	**1200**
Total Metals		
Aluminum	-----	-----
Antimony	-----	-----
Arsenic	<12	**7.8**
Barium	-----	-----
Beryllium	-----	-----
Cadmium	<0.6	**1.13**
Calcium	-----	-----
Chromium	**27.7**	**48.8**
Cobalt	-----	-----
Copper	**40**	**146**
Iron	-----	-----
Lead	**93.3**	**225**
Magnesium	-----	-----
Manganese	-----	-----
Mercury	<0.12	**0.296**
Molybdenum	-----	-----
Nickel	**26.6**	-----
Potassium	-----	-----
Selenium	-----	-----
Silver	-----	**0.918**
Sodium	-----	-----
Thallium	-----	-----
Tin	-----	-----
Vanadium	-----	-----
Zinc	**90.6**	**255**
Volatile Organic Compounds		
1,1,1,2-Tetrachloroethane	-----	-----
1,1,1-Trichloroethane	<0.006	-----
1,1,2,2-Tetrachloroethane	<0.006	-----
1,1,2-Trichloroethane	<0.006	-----
1,1,2-Trichlorotrifluoroethane	-----	-----
1,1-Dichloroethane	<0.006	-----
1,1-Dichloroethene	<0.006	-----
1,1-Dichloropropene	-----	-----
1,2,3-Trichlorobenzene	-----	-----
1,2,3-Trichloropropane	-----	-----
1,2,4-Trimethylbenzene	-----	-----
1,2-Dibromo-3-chloropropane	-----	-----
1,2-Dibromoethane	-----	-----
1,2-Dichloroethane	<0.006	-----
1,2-Dichloropropane	<0.006	-----
1,3,5-Trimethylbenzene	-----	-----
1,3-Dichloropropane	-----	-----
1,Chlorobutane	-----	-----
2,2-Dichloropropane	-----	-----
2-Chlorotoluene	-----	-----
2-Hexanone	<0.012	-----
2-Nitropropane	-----	-----

TABLE I.1 - Early Storm Water System Solids Sample Analyses

Location	Manhole	Sed. 5 (c)
Date	1991 (MH1)	May-07
Source	(a)	(b)
Coordinate X	-----	-----
Coordinate Y	-----	-----
Depth (cm)	-----	<15
Units	(mg/kg)	(mg/kg)
4-Chlorotoluene	-----	-----
Acetone	<0.012	-----
Allyl chloride	-----	-----
Benzene	<0.006	-----
Bromobenzene	-----	-----
Bromochloromethane	-----	-----
Bromodichloromethane	<0.006	-----
Bromoform	<0.006	-----
Bromomethane	<0.012	-----
Carbon disulfide	<0.006	-----
Carbon Tetrachloride	<0.006	-----
Chlorobenzene	<0.006	-----
Chloroethane	<0.012	-----
Chloroform	<0.006	-----
Chloromethane	<0.012	-----
cis-1,2-Dichloroethene	-----	-----
cis-1,3-Dichloropropene	<0.006	-----
Dibromochloromethane	<0.006	-----
Dibromomethane	-----	-----
Dichlorodifluoromethane	-----	-----
Dichloromethane	<0.0066	-----
Diethyl ether	-----	-----
Ethy Methacrylate	-----	-----
Ethylbenzene	<0.006	-----
Iodomethane	-----	-----
Isopropylbenzene	-----	-----
Methacrylonitrile	-----	-----
Methyl Acrylate	-----	-----
Methyl ethyl ketone	<0.012	-----
Methyl isobutyl ketone	-----	-----
Methyl methacrylate	-----	-----
n-Butylbenzene	-----	-----
n-Propylbenzene	-----	-----
p-Cymene	-----	-----
Pentachloroethane	-----	-----
sec-Butlybenzene	-----	-----
Styrene	<0.006	-----
Tert-butyl methyl ether	-----	-----
tert-Butylbenzene	-----	-----
Tetrachloroehtene	<0.006	-----
Toluene	<0.006	-----
trans-1,2-Dichloroethene	-----	-----
trans-1,3-Dichloropropene	-----	-----
Trichloroethene	<0.006	-----
Trichlorofluoromethane	-----	-----
Vinyl chloride	<0.012	-----
Xylene (m &p)	<0.006	-----
Xylene (o)	<0.006	-----
Semivolatile Organic Compounds		
1,2,4-Trichlorobenzene	-----	<0.1
1,2-Dichlorobenzene	-----	<0.1
1,3-Dichlorobenzene	-----	-----
1,4-Dichlorobenzene	-----	<0.1
1-Methylnaphthalene	-----	-----
2,4-Dichlorophenol	-----	-----

TABLE I.1 - Early Storm Water System Solids Sample Analyses

Location	Manhole	Sed. 5 (c)
Date	1991 (MH1)	May-07
Source	(a)	(b)
Coordinate X	-----	-----
Coordinate Y	-----	-----
Depth (cm)	-----	<15
Units	(mg/kg)	(mg/kg)
2,4-Dinitrophenol	-----	-----
2,4-Dinitrotoluene	-----	-----
2,6-Dinitrotoluene	-----	-----
2,4-Dimethylphenol	-----	<0.5
2,4,5-Trichlorophenol	-----	-----
2,4,6-Trichlorophenol	-----	-----
2-Chloronaphthalene	-----	-----
2-Chlorophenol	-----	-----
2-Methylnaphthalene	-----	**0.035**
2-Methylphenol	-----	<0.1
2-Nitroaniline	-----	-----
2-Nitrophenol	-----	-----
3,3-Dchlorobenzidine	-----	-----
3-Nitroaniline	-----	-----
4,6-Dinitro-o-cresol	-----	-----
4-Bromophenyl phenyl ether	-----	-----
4-Chloro-3-methylphenol	-----	-----
4-Chloroaniline	-----	-----
4-Chlorophenyl phenyl ether	-----	-----
4-Methylphenol	-----	<0.1
4-Nitroaniline	-----	-----
4-Nitrophenol	-----	-----
Acenaphthene	<0.40	<0.1
Acenaphthylene	<0.40	<0.1
Aniline	-----	-----
Anthracene	<0.40	**0.035**
Benzo(a)anthracene	<0.40	**0.067**
Benzo(a)pyrene	<0.40	**0.07**
Benzo(b)fluoranthene	<0.40	**0.13**
Benzo(e)pyrene	-----	-----
Benzo(ghi)perylene	<0.40	**0.098**
Benzo(k)fluoranthene	<0.40	**0.036**
Total Benzofluoranthenes	<0.40	**0.134**
Benzoic Acid	-----	<2
Benzyl Alcohol	-----	<0.2
Biphenyl	-----	-----
bis(2-chloroethoxy)methane	-----	-----
bis(2-chlorethyl)ether	-----	-----
bis(2-chloroisopropyl)ether	-----	-----
Bis(2-ethylhexyl)phthalate	-----	**2.2**
Butylbenzylphthalate	-----	**0.88**
Carbozole	-----	-----
Chrysene	<0.40	**0.074**
Dibenzo(ah)anthracene	<0.40	<0.1
Dibenzofuran	-----	<0.1
Diethylphthalate	-----	<0.1
Dimethylphthalate	-----	**0.13**
Di-N-Butylphthalate	-----	<0.12
Di-n-octyl phthalate	-----	<0.1
Fluoranthene	<0.40	**0.17**
Fluorene	<0.40	**0.019**
Hexachlorobenzene	-----	<0.1
Hexachlorobutadiene	-----	<0.1
Hexachlorocyclopentadiene	-----	-----
Hexachloroethane	-----	-----

TABLE I.1 - Early Storm Water System Solids Sample Analyses

Location	Manhole	Sed. 5 (c)
Date	1991 (MH1)	May-07
Source	(a)	(b)
Coordinate X	-----	-----
Coordinate Y	-----	-----
Depth (cm)	-----	<15
Units	(mg/kg)	(mg/kg)
Indeno(123-cd)pyrene	<0.40	**0.069**
Isophorone	-----	-----
Naphthalene	<0.40	**0.035**
Nitrobenzene	-----	-----
N-Nitrosodimethylamine	-----	<0.1
N-Nitroso-di-n-propylamine	-----	-----
N-Nitrosodiphenylamine	-----	-----
Pentachlorophenol	-----	<1
Phenanthrene	<0.40	**0.097**
Phenol	-----	<0.3
Pyrene	<0.40	**0.22**
Pesticides/PCBs		
2,4'-DDD	-----	**0.11**
2,4'-DDE	-----	<0.0086
2,4'-DDT	-----	**0.15**
4,4'-DDD	<0.0082	**0.035**
4,4'-DDE	<0.0082	**0.21**
4,4'-DDT	<0.0082	<0.00099
Aldrin	<0.0041	<0.00099
alpha-BHC	<0.0041	-----
alpha-Chlordane	-----	-----
alpha-Endosulfan	-----	-----
beta-BHC	<0.0041	-----
beta-Endosulfan	-----	-----
delta-BHC	<0.0041	-----
Chlordane	-----	<0.16
Cis-Nonachlor	-----	-----
Dieldrin	<0.0082	<0.0025
Endosulfan sulfate	<0.0082	-----
Endrin	<0.0082	-----
Endrin aldehyde	<0.0082	-----
Endrin ketone	-----	-----
gamma-BHC	-----	-----
gamma-chlordane	-----	-----
Heptachlor	<0.0041	<0.00099
Heptachlor epoxide	<0.0041	-----
Lindane	<0.0041	**0.0017**
Methoxychlor	<0.041	-----
Mirex	-----	-----
Oxychlordane	-----	-----
Toxaphene	<0.082	-----
Trans-Nonachlor	-----	-----
PCB 1016	<0.041	<0.99
PCB 1221	<0.041	<2
PCB 1232	<0.041	<0.99
PCB 1242	<0.041	**0.6**
PCB 1248	<0.041	<0.99
PCB 1254	<0.041	**1.3**
PCB 1260	<0.041	**1.7**
Total PCBs	<0.041	**3.6**

Notes:

(a) - Parametrix 1991

(b) - SAIC 2007

(c) - Outfall sediment

TABLE I.2 - Early Storm Water System Water Sample Analyses

Location	Outfall
Date	May-07
Source	(a)
Petroleum Hydrocarbons (mg/l)	
Gasoline Range Organics	<250
Diesel Range Organics	<0.25
Residual Range Organics	<0.50
Dissolved Metals (ug/l)	
Arsenic	**9.07**
Cadmium	**0.165**
Chromium	**1.5**
Copper	**8.91**
Lead	**0.249**
Mercury	<0.2
Silver	**0.006**
Zinc	**70.5**
Total Metals (ug/l)	
Arsenic	**8.77**
Cadmium	**0.171**
Chromium	**2.1**
Copper	**11.5**
Lead	**2.06**
Mercury	<0.2
Silver	**0.019**
Zinc	**57.8**
Volatile Organic Compounds (ug/l)	
1,1-Dichloroethane	-----
1,3,5-Trimethylbenzene	-----
Acetone	-----
Benzene	-----
Chloroform	-----
Ethylbenzene	-----
m,p-Xylene	-----
Naphthalene	-----
n-Butylbenzene	-----
o-Xylene	-----
Toluene	-----
Semivolatile Organic Compounds (ug/l)	
1,2,4-Trichlorobenzene	<0.2
1,2-Dichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2
2,4-Dimethylphenol	<2
2-Methylnaphthalene	<0.2
2-Methylphenol	<0.5
4-Methylphenol	<0.5
Acenaphthene	<0.2
Acenaphthylene	**0.033**
Anthracene	<0.2
Benzo(a)anthracene	<0.2
Benzo(a)pyrene	<0.2
Benzo(b)fluoranthene	<0.2
Benzo(ghi)perylene	<0.2
Benzo(k)fluoranthene	<0.2
Benzoic Acid	<5
Benzyl Alcohol	<5
Bis(2-ethylhexyl)phthalate	<3.7
Butylbenzylphthalate	**0.073**
Chrysene	<0.2
Dibenzo(ah)anthracene	<0.2
Dibenzofuran	<0.2
Diethylphthalate	**0.16**
Dimethylphthalate	**0.061**

TABLE I.2 - Early Storm Water System Water Sample Analyses

Location Date Source	Outfall May-07 (a)
Di-N-Butylphthalate	**0.13**
Di-n-octyl phthalate	<4.6
Fluoranthene	**0.038**
Fluorene	<0.2
Hexachlorobenzene	<0.2
Hexachlorobutadiene	<0.2
Indeno(123-cd)pyrene	<0.2
Naphthalene	<0.2
N-Nitrosodiphenylamine	<0.2
Pentachlorophenol	<0.99
Phenanthrene	**0.026**
Phenol	**1.2**
Pyrene	**0.038**
Pesticides/PCBs (ug/l)	
2,4'-DDD	<0.0025
2,4'-DDE	<0.0025
2,4'-DDT	<0.0025
4,4'-DDD	**0.0067**
4,4'-DDE	**0.0056**
4,4'-DDT	<0.0025
Aldrin	**0.0012**
Chlordane	<0.05
cis-Chlordane	-----
Dieldrin	<0.0025
gamma-Chlordane	-----
Heptachlor	<0.0025
Lindane	<0.0025
PCB 1016	<0.021
PCB 1221	<0.055
PCB 1232	<0.047
PCB 1242	<0.029
PCB 1248	<0.031
PCB 1254	<0.021
PCB 1260	<0.02

Notes:
< - Less than indicated value
(a) - SAIC July 2007

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Matrix	Comments	ARI Delivery Group	% solids	pH	Conduct-ivity	Temp.	Dissolved Oxygen	Ferrous Iron	Turbidity	TOC
					%	SU	uS	C	mg/l	mg/l	NTU	%
ICS-MH1-SW	8/3/12	water	Upstream	VE83	-----	7.4	21580	16.1	8.6	0	6.5	-----
ICS-MH1-SW	3/23/15	water	Upstream	AC32/AC33	-----	6.9	12120	12.1	7.8	0	427	
ICS-MH1-SW	9/22/15	water	Upstream	AMW5/ANM3	-----	6.9	12926	16.2	4.1	0.8	2.7	-----
ICS-OUTF-SW	8/3/12	water	Discharge	VE83	-----	7.4	23310	15.7	10	0	5.5	-----
ICS-OUTF-SW	3/23/15	water	Discharge	AC32/AC33	-----	6.8	25490	11.4	8.5	0	456	
ICS-OUTF-SW	9/22/15	water	Disharge	AMW5/ANM3	-----	6.8	20018	14.0	5.7	0.8	2.5	-----
Screening Level (a)						5-9	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Matrix	Comments	ARI Delivery Group	% solids	TOC	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper
					%	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ICS-MH1-SE	8/3/12	sediment	Upstream	VE84	77	**4.20**	7 U	**8**	0.1 U	**1.3**	**62.3**	**86.8**
Lower Screening Level(a)							-----	57	-----	5.1	260	390
Upper Screening Level(a)							-----	93	-----	6.7	270	390

Notes: *(a) - Based on Ecology (2015) guidance.*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Chloride	Sulfate	Antimony		Arsenic		Beryllium		Cadmium	
		mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-MH1-SW	8/3/12	**6970**	**995**	5 U	5 U	**7**	**6**	2 U	2 U	2 U	2 U
ICS-MH1-SW	3/23/15	**382**	**51.7**	**3.4**	**3.3**	**1.2**	**4.5**	0.2 U	0.2 U	0.1 U	**0.6**
ICS-MH1-SW	9/22/15	**4640**	**542**	**5**	**5**	**2 U**	2 U	2 U	2 U	1 U	1 U
ICS-OUTF-SW	8/3/12	**7710**	**1100**	5 U	5 U	**8**	**10**	2 U	2 U	2 U	2 U
ICS-OUTF-SW	3/23/15	**728**	**93.4**	**2.8**	**2.9**	**1.6**	**5.0**	0.2 U	0.2 U	**0.2**	**0.6**
ICS-OUTF-SW	9/22/15	**7340**	**963**	**3**	**2**	2 U	2 U	2 U	2 U	1 U	1 U
Screening Level (a)		-----	-----	-----	-----	36	36	-----	-----	9.3	9.4

Storm Water - Solids Samples

Sample Location	Collection Date	Iron	Lead	Mercury	Nickel	Silver	Zinc	Total Petroleum Hydrocarbons			Benzene
								Gasoline-range	Diesel-range	Lube-range	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg
ICS-MH1-SE	8/3/12	**25,400**	**63**	**0.08**	**39**	**1.6**	**464**	9.9 U	290	**1400**	25 U
Lower Screening Level(a)		-----	450	0.41	-----	6.1	410	-----	-----	-----	-----
Upper Screening Level(a)		-----	530	0.59	-----	6.1	960	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Calcium		Chromium		Copper		Lead		Magnesium	
		diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-MH1-SW	8/3/12	-----	**150,000**	10 U	10 U	10 U	10 U	0.5 U	1 U	-----	**453,000**
ICS-MH1-SW	3/23/15	-----	**30,000**	**1.0**	**13.7**	**7.1**	**64.8**	**0.1**	**23.6**	-----	**29,100**
ICS-MH1-SW	9/22/15	-----	**91,500**	5 U	5 U	5 U	**6**	1 U	1 U	-----	**266,000**
ICS-OUTF-SW	8/3/12	-----	**169,000**	10 U	10 U	10 U	10 U	1 U	1 U	-----	**521,000**
ICS-OUTF-SW	3/23/15	-----	**39,500**	**1.5**	**16**	**7.6**	**68.9**	**0.4**	**25.2**	-----	**47,600**
ICS-OUTF-SW	9/22/15	-----	**174,000**	5 U	**1.5**	5 U	5 U	1 U	1 U	-----	**484,000**
Screening Level (a)		-----	-----	-----	-----	3.1	3.7	8..1	8.5	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Toluene µg/kg	Ethylbenzene µg/kg	*m* - & *p* - Xylenes µg/kg	*o* -Xylene µg/kg	Phenol µg/kg	2-Chloro-phenol µg/kg	1,3-Dichloro-benzene µg/kg	1,4-Dichloro-benzene µg/kg	Benzyl alcohol µg/kg	1,2-Dichloro-benzene µg/kg
ICS-MH1-SE	8/3/12	25 U	25 U	50 U	25 U	**500**	**71**	**4100**	**2900**	**160**	**3400**
Lower Screening Level(a)		-----	-----	-----	-----	420	-----	-----	110	57	35
Upper Screening Level(a)		-----	-----	-----	-----	1200	-----	-----	120	73	50

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Mercury		Nickel		Sodium		Silver		Zinc	
		diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-MH1-SW	8/3/12	0.1 U	0.1 U	10 U	10 U	-----	-----	5 U	5 U	100 U	100 U
ICS-MH1-SW	3/23/15	20.0 U	**38.2**	**1.4**	**16.6**	-----	**209,000**	0.2 U	0.2 U	**17**	**193**
ICS-MH1-SW	9/22/15	0.02 U	0.02 U	5 U	5 U	-----	**2,420,000**	2 U	2 U	40 U	40 U
ICS-OUTF-SW	8/3/12	0.1 U	0.1 U	10 U	10 U	-----	-----	5 U	5 U	100 U	100 U
ICS-OUTF-SW	3/23/15	20.0 U	**41.5**	**1.9**	**17.6**	-----	**356,000**	0.2 U	0.2 U	**29**	**199**
ICS-OUTF-SW	9/22/15	0.02 U	0.02 U	5 U	5 U	-----	**4,170,000**	2 U	2 U	40 U	40 U
Screening Level (a)		0.025	0.025	-----	-----	-----	-----	1.9	2.2	81	86

Storm Water - Solids Samples

Sample Location	Collection Date	2-Methyl-phenol µg/kg	4-Methyl-phenol µg/kg	N-Nitroso-di-n-propylamine µg/kg	Hexachloro-ethane µg/kg	Nitrobenzene µg/kg	Isophorone µg/kg	2,4-Dimethyl-phenol µg/kg	Benzoic acid µg/kg	2,4-Dichloro-phenol µg/kg	1,2,4-Trichloro-benzene µg/kg
ICS-MH1-SE	8/3/12	**23**	**90**	18 U	18 U	18 U	18 U	18 U	**770**	180 U	**5300**
Lower Screening Level(a)		63	670	-----	-----	-----	-----	29	650		31
Upper Screening Level(a)		63	670	-----	-----	-----	-----	29	650		51

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Hardness	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloroethane
			Gasoline-range	Diesel-range	Lube-range				
		mg-$CaCO_3$/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
ICS-MH1-SW	8/3/12	2200	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-MH1-SW	3/23/15	200	0.25 U	**0.75**	**2.3**	0.50 U	1.0 U	0.20 U	0.20 U
ICS-MH1-SW	9/22/15	1300	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-OUTF-SW	8/3/12	2600	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
ICS-OUTF-SW	3/23/15	290	0.25 U	**0.89**	**1.7**	0.50 U	1.0 U	0.20 U	0.20 U
ICS-OUTF-SW	9/22/15	2400	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U
Screening Level (a)		-----	-----	0.5(b)	0.5(b)	-----	-----	-----	-----

(b) - Based on Method A CULs in WAC 173-340-720

Storm Water - Solids Samples

Sample Location	Collection Date	Naphthalene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	2,4,6-Trichloro-phenol	2,4,5-Trichloro-phenol	2-Chloro-naphthalene	Dimethyl-phthalate	Acenaphthylene
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
ICS-MH1-SE	8/3/12	**4100**	93 U	**70**	93 U	93 U	**2800**	18 U	**740**
Lower Screening Level(a)		2100	-----	670	-----	-----	-----	71	1300
Upper Screening Level(a)		2400	-----	1400	-----	-----	-----	160	1300

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Methylene chloride µg/L	Acetone µg/L	Carbon disulfide µg/L	1,1-Dichloro-ethene µg/L	1,1-Dichloro-ethane µg/L	*trans*-1,2-Dichloroethene µg/L	*cis*-1,2-Dichloroethene µg/L	Chloroform µg/L
ICS-MH1-SW	8/3/12	1.0 U	**16**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	3/23/15	1.0 U	**22 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	9/22/15	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	8/3/12	1.0 U	**5.6**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	3/23/15	1.0 U	**26 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	9/22/15	1.0 U	**7.6**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Acenaphthene µg/kg	Dibenzofuran µg/kg	2,6-Dinitro-toluene µg/kg	2,4-Dinitro-toluene µg/kg	Diethyl-phthalate µg/kg	4-Chlorophenyl-phenylether µg/kg	Fluorene µg/kg	N-Nitrosodi-phenylamine µg/kg
ICS-MH1-SE	8/3/12	**18**	**20**	93 U	93 U	46 U	18 U	**32**	18 U
Lower Screening Level(a)		500	-----	-----	-----	200	-----	540	28
Upper Screening Level(a)		730	-----	-----	-----	1200	-----	1000	40

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

J_B = estimate; associated value is likely biased high due to contribution from sampling/laboratory background or method blank..

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	1,2-Dichloro-ethane µg/L	2-Butanone µg/L	1,1,1-Tri-chloroethane µg/L	Carbon tetrachloride µg/L	Bromo-dichloromethane µg/L	1,2-Dichloro-propane µg/L	*cis* -1,3-Dichloro-propene µg/L	Trichloro-ethene µg/L
ICS-MH1-SW	8/3/12	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	3/23/15	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	9/22/15	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	8/3/12	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	3/23/15	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	9/22/15	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Pentachlo-rophenol µg/kg	Phenanthrene µg/kg	Carbazole µg/kg	Anthracene µg/kg	Di-n-butyl-phthalate µg/kg	Fluoranthene µg/kg	Pyrene µg/kg	Butylbenzyl-phthalate µg/kg
ICS-MH1-SE	8/3/12	44 U	**1700**	18 U	**190**	**65**	**2200**	**1700**	**82**
Lower Screening Level(a)		360	1500	-----	960	1400	1700	2600	63
Upper Screening Level(a)		690	5400	-----	4400	5100	2500	3300	900

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Dibromo-chloromethane µg/L	1,1,2-Trichloro-ethane µg/L	Benzene µg/L	*trans* -1,3-Dichloropropene µg/L	Bromoform µg/L	4-Methyl-2-pentanone µg/L	2-Hexanone µg/L	Tetrachloroethene µg/L
ICS-MH1-SW	8/3/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U
ICS-MH1-SW	3/23/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U
ICS-MH1-SW	9/22/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U
ICS-OUTF-SW	8/3/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U
ICS-OUTF-SW	3/23/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U
ICS-OUTF-SW	9/22/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Benzo(a)-anthracene µg/kg	*bis* (2-Ethylhexyl)-phthalate µg/kg	Chrysene µg/kg	Di-n-octyl-phthalate µg/kg	total Benzo-fluoranthenes µg/kg	Benzo(a)-pyrene µg/kg	Indeno(1,2,3-cd)pyrene µg/kg	Dibenz(a,h)anthracene µg/kg
ICS-MH1-SE	8/3/12	**240**	**3400**	**640**	**900**	**1400**	**500**	**260**	**44**
Lower Screening Level(a)		1300	1300	1400	6200	3200	1600	600	230
Upper Screening Level(a)		1600	1900	2800	-----	3600	3000	690	540

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	1,1,2,2-Tetra-chloroethane µg/L	Toluene µg/L	Chloro-benzene µg/L	Ethyl-benzene µg/L	Styrene µg/L	Trichloro-fluoromethane µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane µg/L	*m* - & *p* - Xylenes µg/L	*o* -Xylene µg/L
ICS-MH1-SW	8/3/12	0.20 U	0.20 U	0.20 U	**0.21**	0.20 U	0.20 U	0.20 U	**0.71**	**0.29**
ICS-MH1-SW	3/23/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U
ICS-MH1-SW	9/22/15	0.20 U	0.20 U	0.20 U	**0.21**	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U
ICS-OUTF-SW	8/3/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U
ICS-OUTF-SW	3/23/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U
ICS-OUTF-SW	9/22/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Benzo(g,h,i)-perylene µg/kg	LPAH µg/kg	HPAH µg/kg	alpha-BHC µg/kg	beta-BHC µg/kg	delta-BHC µg/kg	gamma-BHC (Lindane) µg/kg	Heptachlor µg/kg	Aldrin µg/kg
ICS-MH1-SE	8/3/12	**210**	**6780**	**7194**	6.0 U	4.0 U	39 U	1.6 U	1.6 U	1.6 U
Lower Screening Level(a)		670	5200	12000	-----	-----	-----	-----	-----	-----
Upper Screening Level(a)		720	13000	17000	-----	-----	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	1,2-Dichloro-benzene µg/L	1,3-Dichloro-benzene µg/L	1,4-Dichlorobenzene µg/L	Acrolein µg/L	Bromoethane µg/L	1,1-Dichloro-propene µg/L	Dibromo-methane µg/L	1,1,1,2-Tetra-chloroethane µg/L
ICS-MH1-SW	8/3/12	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	3/23/15	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	9/22/15	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	8/3/12	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	3/23/15	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	9/22/15	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
Screening Level (a)		1300	-----	190	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Heptachlor epoxide µg/kg	Endosulfan I µg/kg	Dieldrin µg/kg	4,4'-DDE µg/kg	Endrin µg/kg	Endosulfan II µg/kg	4,4'-DDD µg/kg	Endosulfan sulfate µg/kg
ICS-MH1-SE	8/3/12	1.6 U	1.6 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	1,2,3-Trichloropropane µg/L	*trans*-1,4-Dichloro-2-butene µg/L	1,3,5-Trimethylbenzene µg/L	1,2,4-Trimethylbenzene µg/L	Hexachlorobutadiene µg/L	Ethylene dibromide µg/L	Bromochloromethane µg/L	2,2-Dichloropropane µg/L	1,3-Dichloropropane µg/L
ICS-MH1-SW	8/3/12	0.50 U	1.0 U	0.20 U	**0.59**	*see Cl pest.*	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	3/23/15	0.20 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	9/22/15	0.50 U	1.0 U	0.20 U	0.2 U	*see Cl pest.*	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	8/3/12	0.50 U	1.0 U	0.20 U	0.20 U	*see Cl pest.*	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	3/23/15	0.20 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	9/22/15	0.50 U	1.0 U	0.20 U	0.20 U	*see Cl pest.*	0.20 U	0.20 U	0.20 U	0.20 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	4,4'-DDT µg/kg	Methoxychlor µg/kg	Endrin ketone µg/kg	Endrin aldehyde µg/kg	trans-Chlordane µg/kg	cis-Chlordane µg/kg	Hexachlorobenzene µg/kg	Hexachlorobutadiene µg/kg	Aroclor 1016 µg/kg
ICS-MH1-SE	8/3/12	6.4 U	16 U	3.2 U	3.2 U	6.7 U	2.8 U	**230 J_Q**	1.6 U	3.7 U
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	22	11	-----
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	70	120	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Isopropyl-benzene µg/L	n-Propyl-benzene µg/L	Bromo-benzene µg/L	2-Chloro-toluene µg/L	4-Chloro-toluene µg/L	*tert* -Butyl-benzene µg/L	*sec* -Butyl-benzene µg/L	4-Isopropyl-toluene µg/L	n-Butyl-benzene µg/L
ICS-MH1-SW	8/3/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	3/23/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW	9/22/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	8/3/12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	3/23/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW	9/22/15	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	Aroclor 1242 µg/kg	Aroclor 1248 µg/kg	Aroclor 1254 µg/kg	Aroclor 1260 µg/kg	Aroclor 1221 µg/kg	Aroclor 1232 µg/kg	Total Detected PCBs µg/kg	gravel > 2000 µm %	very coarse sand 2000 - 1000 µm %
ICS-MH1-SE	8/3/12	3.7 U	**31**	**36**	**38**	3.7 U	3.7 U	**105**	15.2	23.0
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	130	-----	-----
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	1000	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	1,2,4-Trichloro-benzene µg/L	Naphtha-lene µg/L	1,2,3-Trichloro-benzene µg/L	Phenol µg/L	2-Chloro-phenol µg/L	1,3-Dichloro-benzene µg/L	1,4-Dichloro-benzene µg/L	Benzyl alcohol µg/L
ICS-MH1-SW	8/3/12	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U
ICS-MH1-SW	3/23/15	0.50 U	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	2.0 U
ICS-MH1-SW	9/22/15	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	2.0 U
ICS-OUTF-SW	8/3/12	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U
ICS-OUTF-SW	3/23/15	0.50 U	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	2.0 U
ICS-OUTF-SW	9/22/15	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	2.0 U
Screening Level (a)		-----	-----	-----	860000	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	coarse sand 1000 - 500 µm %	medium sand 500 - 250 µm %	fine sand 250 - 125 µm %	very fine sand 125 - 62 µm %	coarse silt 62 - 31 µm %	medium silt 31 - 15.6 µm %	fine silt 15.6 - 7.8 µm %	very fine silt 7.8 - 3.9 µm %
ICS-MH1-SE	8/3/12	22.5	12.5	6.8	3.7	2.6	6.3	4.6	1.6
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	1,2-Dichloro-benzene µg/L	2-Methyl-phenol µg/L	4-Methyl-phenol µg/L	N-Nitrosodi-n-propylamine µg/kg	Hexachloro-ethane µg/L	Nitrobenzene µg/L	Isophorone µg/L	2,4-Dimethyl-phenol µg/L
ICS-MH1-SW	8/3/12	*see VOC's*	1.0 U	1.0 U	-----	1.0 U	1.0 U	1.0 U	1.0 U
ICS-MH1-SW	3/23/15	*see VOC's*	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MH1-SW	9/22/15	*see VOC's*	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-OUTF-SW	8/3/12	*see VOC's*	1.0 U	1.0 U	-----	1.0 U	1.0 U	1.0 U	1.0 U
ICS-OUTF-SW	3/23/15	*see VOC's*	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-OUTF-SW	9/22/15	*see VOC's*	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	total silt	clay			total fines	2,3,7,8-TCDF	total TCDF	2,3,7,8-TCDD
		32 - 3.2 µm %	3.9 - 2.0 µm %	2.0 - 1.0 µm %	< 1.0 µm %	< 62 µm %	ng/kg, dry	ng/kg, dry	ng/kg, dry
ICS-MH1-SE	8/3/12	15.1	0.2	0.2	0.8	16.3	**1.54**	25.0	**0.772 J**
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Benzoic acid µg/L	2,4-Dichloro-phenol µg/L	1,2,4-Trichloro-benzene µg/L	Naphthalene µg/L	4-Chloro-3-methylphenol µg/L	2-Methyl-naphthalene µg/L	2,4,6-Trichloro-phenol µg/L	2,4,5-Trichloro-phenol µg/L
ICS-MH1-SW	8/3/12	10 U	5.0 U	1.0 U	0.10 U	5.0 U	1.0 U	5.0 U	5.0 U
ICS-MH1-SW	3/23/15	20 U	3.0 U	-----	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
ICS-MH1-SW	9/22/15	20 U	3.0 U	1.0 U	0.10 U	3.0 U	1.0 U	0.025 U	5.0 U
ICS-OUTF-SW	8/3/12	10 U	5.0 U	1.0 U	0.10 U	5.0 U	1.0 U	5.0 U	5.0 U
ICS-OUTF-SW	3/23/15	20 U	3.0 U	-----	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U
ICS-OUTF-SW	9/22/15	20 U	3.0 U	1.0 U	0.10 U	3.0 U	1.0 U	0.025 U	5.0 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date	total TCDD ng/kg, dry	1,2,3,7,8-PeCDF ng/kg, dry	2,3,4,7,8-PeCDF ng/kg, dry	total PeCDF ng/kg, dry	1,2,3,7,8-PeCDD ng/kg, dry	total PeCDD ng/kg, dry	1,2,3,4,7,8-HxCDF ng/kg, dry	1,2,3,6,7,8-HxCDF ng/kg, dry
ICS-MH1-SE	8/3/12	6.10	**1.18 J**	**1.77 J**	50.3	**3.67 J**	19.6	**4.94 J**	**3.35 J**
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	2-Chloro-naphthalene µg/L	Dimethyl-phthalate µg/L	Acenaph-thylene µg/L	Acenaphthene µg/L	Dibenzo-furan µg/L	2,6-Dinitro-toluene µg/L	2,4-Dinitro-toluene µg/L	Diethyl-phthalate µg/L
ICS-MH1-SW	8/3/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	5.0 U	5.0 U	1.0 U
ICS-MH1-SW	3/23/15	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U
ICS-MH1-SW	9/22/15	1.0 U	1.0 U	0.10 U	0.10 U	0.1 U	3.0 U	3.0 U	**190**
ICS-OUTF-SW	8/3/12	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	5.0 U	5.0 U	1.0 U
ICS-OUTF-SW	3/23/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U
ICS-OUTF-SW	9/22/15	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	**190**
Screening Level (a)		-----	1,100,000	-----	990	-----	-----	-----	44,000

Storm Water - Solids Samples

Sample Location	Collection Date	2,3,4,6,7,8-HxCDF ng/kg, dry	1,2,3,7,8,9-HxCDF ng/kg, dry	total HxCDF ng/kg, dry	1,2,3,4,7,8-HxCDD ng/kg, dry	1,2,3,6,7,8-HxCDD ng/kg, dry	1,2,3,7,8,9-HxCDD ng/kg, dry	total HxCDD ng/kg, dry	1,2,3,4,6,7,8-HpCDF ng/kg, dry
ICS-MH1-SE	8/3/12	**4.78 J**	**1.20 J**	89.1	**5.41**	**17.7**	**12.0**	117	**59.2**
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	4-Chlorophenyl-phenylether µg/L	Fluorene µg/L	N-Nitrosodi-phenylamine µg/L	Pentachloro-phenol µg/L	Phenanthrene µg/L	Carbazole µg/L	Anthracene µg/L	Di-n-butyl-phthalate µg/L
ICS-MH1-SW	8/3/12	1.0 U	0.10 U	1.0 U	5.0 U	0.10 U	1.0 U	0.10 U	1.0 U
ICS-MH1-SW	3/23/15	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U
ICS-MH1-SW	9/22/15	1.0 U	0.1 U	1.0 U	0.25 U	0.1 U	1.0 U	0.1 U	1.0 U
ICS-OUTF-SW	8/3/12	1.0 U	0.10 U	1.0 U	5.0 U	0.10 U	1.0 U	0.10 U	1.0 U
ICS-OUTF-SW	3/23/15	1.0 U	0.10 U	1.0 U	0.25 U	**0.06 J**	1.0 U	0.10 U	1.0 U
ICS-OUTF-SW	9/22/15	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U
Screening Level (a)		-----	5300	6	3	-----	-----	40,000	4500

Storm Water - Solids Samples

Sample Location	Collection Date	1,2,3,4,7,8,9-HpCDF ng/kg, dry	total HpCDF ng/kg, dry	1,2,3,4,6,7,8-HpCDD ng/kg, dry	total HpCDD ng/kg, dry	OCDF ng/kg, dry	OCDD ng/kg, dry	2,3,7,8-TCDD (TEQ) ND=0 ng/kg, dry	2,3,7,8-TCDD (TEQ) ND/2 ng/kg, dry
ICS-MH1-SE	8/3/12	**3.30 J**	155	**364**	677	**126**	**2590**	15.2	15.2
Lower Screening Level(a)		-----	-----	-----	-----	-----	-----	25	25
Upper Screening Level(a)		-----	-----	-----	-----	-----	-----	-----	-----

Notes: *(a) - Based on Ecology (2015) guidance*

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Fluoranthene µg/L	Pyrene µg/L	Butylbenzyl-phthalate µg/L	Benzo(a)-anthracene µg/L	*bis* (2-Ethylhexyl)-phthalate µg/L	Chrysene µg/L	Di-n-octyl-phthalate µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene µg/L
ICS-MH1-SW	8/3/12	0.10 U	0.10 U	1.0 U	0.10 U	**1.1**	0.10 U	1.0 U	0.20 U	0.10 U
ICS-MH1-SW	3/23/15	**0.11**	**0.12**	1.0 U	0.10 U	3.0 U	**0.07 J**	1.0 U	0.10 U	0.10 U
ICS-MH1-SW	9/22/15	0.1 U	0.1 U	1.0 U	0.1 U	3.0 U	0.1 U	1.0 U	0.1 U	0.1 U
ICS-OUTF-SW	8/3/12	0.10 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U
ICS-OUTF-SW	3/23/15	**0.08 J**	**0.11**	1.0 U	0.10 U	**2.2 J**	**0.06 J**	1.0 U	0.10 U	0.10 U
ICS-OUTF-SW	9/22/15	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U
Screening Level (a)		140	4000	1900	0.018	2.2	0.018	-----	-----	0.018

Storm Water - Solids Samples

Sample Location	Collection Date
ICS-MH1-SE	8/3/12
Lower Screening Level(a)	
Upper Screening Level(a)	

Notes:

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Indeno(1,2,3-cd)pyrene µg/L	Dibenz(a,h)-anthracene µg/L	Benzo(g,h,i)-perylene µg/L	LPAH µg/L	HPAH µg/L	alpha-BHC µg/L	beta-BHC µg/L	delta-BHC µg/L	gamma-BHC (Lindane) µg/L	Heptachlor µg/L
ICS-MH1-SW	8/3/12	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-MH1-SW	3/23/15	0.10 U	0.10 U	0.10 U	0.10 U	0.30	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
ICS-MH1-SW	9/22/15	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
ICS-OUTF-SW	8/3/12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-OUTF-SW	3/23/15	0.10 U	0.10 U	**0.05 J**	0.10 U	0.30	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
ICS-OUTF-SW	9/22/15	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Screening Level (a)		0.02	0.018	-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date
ICS-MH1-SE	8/3/12
Lower Screening Level(a)	
Upper Screening Level(a)	

Notes:

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Aldrin µg/L	Heptachlor epoxide µg/L	Endosulfan I µg/L	Dieldrin µg/L	4,4'-DDE µg/L	Endrin µg/L	Endosulfan II µg/L	4,4'-DDD µg/L	Endosulfan sulfate µg/L	4,4'-DDT µg/L
ICS-MH1-SW	8/3/12	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-MH1-SW	3/23/15	0.012 U	0.012 U	0.012 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
ICS-MH1-SW	9/22/15	0.0025 U	0.022 U	0.0025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
ICS-OUTF-SW	8/3/12	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-OUTF-SW	3/23/15	0.012 U	0.012 U	0.012 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
ICS-OUTF-SW	9/22/15	0.0025 U	0.022 U	0.0025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date
ICS-MH1-SE	8/3/12
Lower Screening Level(a)	
Upper Screening Level(a)	

Notes:

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- *Constituent exceeds screening level*

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Methoxychlor µg/L	Endrin ketone µg/L	Endrin aldehyde µg/L	trans-Chlordane µg/L	cis-Chlordane µg/L	Toxaphene µg/L	Hexachloro-benzene µg/L	Hexachloro-butadiene µg/L	Aroclor 1016 µg/L	Aroclor 1242 µg/L
ICS-MH1-SW	8/3/12	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U
ICS-MH1-SW	3/23/15	0.12 U	0.025 U	0.025 U	0.012 U	0.012 U	1.2 U	0.025 U	0.025 U	0.010 U	0.010 U
ICS-MH1-SW	9/22/15	0.025 U	0.005 U	0.005 U	0.0025 U	0.0025 U	-----	0.005 U	0.005 U	0.010 U	0.010 U
ICS-OUTF-SW	8/3/12	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	-----	0.050 U	0.050 U	0.010 U	0.010 U
ICS-OUTF-SW	3/23/15	0.12 U	0.025 U	0.025 U	0.012 U	0.012 U	1.2 U	0.025 U	0.025 U	0.010 U	0.010 U
ICS-OUTF-SW	9/22/15	0.025 U	0.005 U	0.005 U	0.0025 U	0.0025 U	-----	0.005 U	0.005 U	0.010 U	0.010 U
Screening Level (a)		-----	-----	-----	-----	-----	-----	0.00029	18	-----	-----

Storm Water - Solids Samples

Sample Location	Collection Date
ICS-MH1-SE	8/3/12
Lower Screening Level(a)	
Upper Screening Level(a)	

Notes:

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

TABLE I.3 - Results of Storm Water System Sample Analyses (2012-2015)

Storm Water - Liquid Samples

Sample Location	Collection Date	Aroclor 1248 µg/L	Aroclor 1254 µg/L	Aroclor 1260 µg/L	Aroclor 1221 µg/L	Aroclor 1232 µg/L	Total Detected PCBs µg/L
ICS-MH1-SW	8/3/12	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MH1-SW	3/23/15	0.020 U	**0.039**	**0.04**	0.010 U	0.010 U	**0.079**
ICS-MH1-SW	9/22/15	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-OUTF-SW	8/3/12	0.010 U	0.010 U	0.010 U	0.010 U	0.015 U	0.015 U
ICS-OUTF-SW	3/23/15	0.015 U	**0.028**	**0.027**	0.010 U	0.010 U	**0.055**
ICS-OUTF-SW	9/22/15	0.020 U	0.030 U	0.010 U	0.010 U	0.010 U	0.030 U
Screening Level (a)		-----	-----	-----	-----	-----	0.000064

Storm Water - Solids Samples

Sample Location	Collection Date
ICS-MH1-SE	8/3/12
Lower Screening Level(a)	
Upper Screening Level(a)	

Notes:

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

U = nondetected at the associated lower reporting limit.

J_Q = estimate; due to noncompliant CCV check.

J = estimate associated with value less than the verifiable lower quantitation limit.

- Constituent exceeds screening level

APPENDIX J
DMD DATA VALIDATION REPORTS
(ON CD)

REMEDIAL INVESTIGATION REPORT
ICS/NWC RI/FS
SEATTLE, WASHINGTON

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: November 2, 2012

SUBJECT: Data Evaluation/Assessment for 33 Sediment Samples Collected during July 2012 from the ICS / [former] NW Cooperage Site, Seattle, WA

Thirty three sediment samples were collected by Dalton, Olmsted & Fuglevand (DOF) staff during July 2-3 of 2012 for the evaluation of sediment quality. All sediment samples were delivered in two delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington on the same day of collection. Samples were received on ice at temperatures between 1.6 and 6.0 degrees C, and maintained at the project laboratory at 4 degrees C prior to analyses. No chemical preservatives were specified nor required.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012). All analyses were performed by methods presented in Table SAP-3 of the SAP.

specific gravity	ASTM D854	Atterberg limits	ASTM D4318
grain size	ASTM D422/D421	bulk density	ASTM D7263
moisture content	ASTM D2216	TOC	Plumb, 1981 (PSEP)
SVOC's	SW846-M.8270	chlor. pesticides	SW846-M.8081
PCB's as Aroclors	SW846-M.8082	metals (exc Hg)	SW846-M.6020A
Hg	SW846-M.7471A	chlor. dioxins/furans	U.S. EPA 1613B
TBT	Krone/8270-SIM	total petroleum HC's	NWTPH-Dx

Atterberg limits are not reported in the attached data/results table. Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and selected analytes were further analyzed and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. These selected analytes include 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine (as diphenylamine), benzyl alcohol, and pentachlorophenol. Results for detected analytes were reported from the full-scan analyses or from the mode that yielded non-qualified data. For nondetected analytes, the lowest reporting limit between the two analytical modes was reported in the attached results table; generally from the SIM mode of analyses.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications.

Generally, [lower] **reporting limits** were consistent with specified-limits presented in the SAP (table SAP-3) and achieved the sediment PQL goals when contaminant levels allowed it. Exceptions are noted principally for organic compound analytes due to presence of chemical interferents and elevated levels of other target analytes. Specifically, samples 02, 04 (and its blind duplicate), 09 and 12 required extract dilutions due to elevated levels of organic contaminants resulting in the elevation of some analyte nondetection reporting limits. Sample 04, and its blind duplicate, exhibited elevated levels of petroleum hydrocarbons. Sample 12, for example, exhibited elevated levels of both target analytes and petroleum hydrocarbons necessitating extract dilutions in order to prevent instrumental overloading. Most of the elevated nondetects for the chlorinated pesticides are due to chemical interferences and elevated backgrounds for samples 04 (and its blind duplicate), 05, 06, 09, 12, 17, 19 and 27. Some Aroclors (commercial PCB mixtures) were reported with elevated reporting limits or nondetects due to elevated levels of other detected Aroclors that have the potential to contribute overlapping signals. Considerable effort was made by the analysts to achieve the specified lower reporting limits when the sample matrix and chemical interferences would allow it. Analyte concentrations reported at less than the lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of *bis*(2-ethylhexyl)phthalate in both analytical groups at 15 and 41 µg/kg. *bis*(2-Ethylhexyl)phthalate results were qualified with the "B" qualifier code when results have the potential to be significantly impacted by laboratory background levels. Only two sample results required "B" qualification. No other data required qualification due to method blanks performance.

No field equipment **rinsate blanks** were specified in the project SAP nor were any collected.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. Some recoveries were nonevaluable due to high native levels of analyte interfering with [low] spike levels, such as Aroclor 1260 in sample 07, and Hg in sample 19. 2,4-Dimethylphenol MS and MSD recoveries in sample 23 (analytical group VB00) were reported at 13.6% and 21.1%. Associated samples with positive hits were previously qualified as estimated ("J" qualifier code) due to levels less than the lower verifiable calibration point. 2,4-Dimethylphenol LCS/LCSD recoveries were all within the acceptance range. MS/MSD recoveries for chlorinated pesticides in sample 29 were generally high and associated with elevated background interferences. LCS recoveries for heptachlor epoxide, 4,4'-DDE, and *trans*-chlordane were also high. No significant adverse effect on data quality is anticipated as a consequence. Antimony (Sb) matrix spike recoveries are reported consistently low in samples 13 and 19 at 7.2% and 1.7%, respectively. Sb LCS and SRM recoveries are determined to be acceptable. This behaviour for Sb is typical due to formation of Sb-SiO_4

complexes in the presence of soil minerals; however, positive hits for Sb are thus qualified with the "J_R" qualifier code to indicate results are considered estimates (biased low) due to low matrix spike recoveries. The polychlorinated dibenzo-*p*-dioxins and dibenzofurans (PCDD/PCDF) OPR check sample exhibited good performance and acceptable recoveries. Recoveries of spike analytes for all analyses were determined to be acceptable, with the exceptions noted above for 2,4-dimethylphenol and antimony; in the case of antimony, requiring qualification of associated results as estimates with the "J_R" code.

Surrogate compound recoveries (for organic analytes) were evaluated for SVOC's, TPH-Dx, tributyl tin, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and polychlorinated dibenzo-*p*-dioxins and dibenzofurans (PCDD/PCDF's). PCDD/PCDF recovery performance is evaluated by the use of stable isotope labeled (^{13}C) compounds for each of the reported target analytes as well as a representative ^{37}Cl-labeled compound. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance. Tributyl tin recovery performance is evaluated by the use of tripropyl and tripentyl tin chlorides. *o*-Terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. The SVOC surrogate, d_{14}-terphenyl, showed low recoveries for the initial extract in samples 03, DUP-02, 05 and 06, while the diluted reruns showed compliant recoveries. The surrogates, TCMX and DCBP, for the analyses of PCB's in sample 15 showed slightly elevated recoveries likely due to moderate levels of interferences manifested as an elevated chromatographic baseline. DCBP, only, showed moderately elevated responses in samples 04, DUP-02, 11, and 25 likely due to relatively high levels of Aroclor 1260, but not sufficient to adversely affect PCB's data quality (Aroclor 1260 contains small amounts of DCBP). The TPH-Dx surrogate, *o*-terphenyl, exhibited slightly low recoveries (45% and 49%) in samples DUP-02 and 06 (acceptance range = 50-150% recovery). Sample 04 and its duplicate (DUP-02) exhibited good replication for TPH-Dx with less than 15 relative percent difference (RPD). Consequently, the noncompliant (slightly low) surrogate recoveries are considered sufficiently minor to not require qualification of associated TPH-Dx results. No qualification of results was required due to surrogate compounds performance.

SVOC continuing calibration verification (CCV) checks revealed elevated responses for phenol and butylbenzylphthalate (7/13/12), and butylbenzylphthalate (7/16/12, 7/19/12 & 7/20/12), and low for pentachlorophenol (7/13/12, 7/19/12, 7/23/12 & 7/25/12). Sample 19 was employed for MS/MSD evaluation and was also potentially affected by the noncompliant CCV for phenol and butylbenzylphthalate; where the MS/MSD recovery for phenol was 76.9% and 72.6% and the recovery for butylbenzylphthalate was 108% and 93.9% - all acceptable recoveries. Inspite of the noncompliant CCVs, the actual recoveries for phenol and butylbenzylphthalate are well within acceptable ranges and thus the reported values for these analytes are considered acceptable. Reported data associated with noncompliant CCV's are nonetheless qualified as estimates with the "J_Q" code, even though the data quality, by other measures, is within acceptance limits.

Two pairs of blind **field duplicate** samples were collected and submitted for analyses for the assessment of monitoring variability. Duplicate pairs are identified in the attached table of

sample results. Variability in terms of relative percent difference (RPD) for all parameters generally averaged 30% for duplicate pairs. Greatest RPDs (up to 100 & 140) were observed for organic contaminants, such as fluoranthene and pyrene, in sample 04 and its associated blind duplicate. Laboratory duplicate analyses were generally less than 20 RPD (within SAP specifications). Grain size triplicate analyses were performed on a nonproject sample and yielded acceptable performance.

TPH-Dx analyses indicate the principal recognizable pattern is associated with the lube-range of hydrocarbons, which most resembles motor oil or lubricant. Bold type values are associated with the patterns that most likely identify the hydrocarbon mixture present, such as diesel fuel and/or motor/lubricant oil. Sample 12 also shows presence of weathered gasoline (pre n-C_{12}), which is not included in the quantitation of TPH reported in the attached results table.

Examination of the raw GC/MS (M.8270) data files reveals considerable amount of coeleution of selected pesticides with PCB congeners in project samples. Also, additional nontarget pesticide compounds and phosphate/thiophosphate esters showed interference with pesticide target analytes. The PCB congener and nontarget chemical interferences elevated the reporting limits and interfered with accurate reporting of the following target analytes by M.8081: 4,4'-DDD, 4,4'-DDT, and the two Chlordane isomers. The DDT and benzo(a)pyrene GC/MS response factors were applied for estimating the levels of selected analytes where interferences were demonstrated to exist. Estimated concentrations (by M.8270) are reported in the attached results table with the "J_M" qualifier code.

Sample results reported here are determined to be in general compliance with method and SAP requirements. Most deviations of data quality from SAP and method specifications are associated with generally elevated levels of multiple contaminants in site sediments. All reported data for sediment samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Specific gravity	Wet density	Moisture content	Dry density	TOC	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9
					%	SU	lb/ft^3	%	lb/ft^3	%	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-DSS-19-SE-070212	sediment	7/2/2012		1212564-VB00A	48	2.61	88.8	105.7	43.2	2.93	**0.8 J_R**	**16.4**	0.4 U	**1.3**
ICS-DSS-21-SE-070212	sediment	7/2/2012		1212565-VB00B	53					1.92	0.4 U	**10.4**	0.4 U	**0.4**
ICS-DSS-20-SE-070212	sediment	7/2/2012		1212566-VB00C	65					1.54	0.3 U	**12.1**	**0.4**	**0.2**
ICS-DSS-22-SE-070212	sediment	7/2/2012		1212567-VB00D	68					1.22	0.3 U	**7.0**	**0.4**	**0.3**
ICS-DSS-28-SE-070212	sediment	7/2/2012		1212568-VB00E	64					2.24	0.3 U	**14.5**	**0.5**	**0.6**
ICS-DSS-30-SE-070212	sediment	7/2/2012		1212569-VB00F	80	2.73	102.5	21.6	84.3	0.442	0.2 U	**5.4**	0.2 U	0.1 U
ICS-DSS-29-SE-070212	sediment	7/2/2012		1212570-VB00G	78					1.93	0.2 U	**8.9**	0.2 U	**0.3**
ICS-DSS-26-SE-070212	sediment	7/2/2012		1212571-VB00H	70					2.63	**0.6 J_R**	**12.6**	0.3 U	**1.6**
ICS-DSS-27-SE-070212	sediment	7/2/2012		1212572-VB00I	69					2.92	0.3 U	**17.1**	0.3 U	**0.6**
ICS-DSS-17-SE-070212	sediment	7/2/2012		1212573-VB00J	74	2.69	111.7	30.8	85.4	2.32	0.3 U	**8.3**	**0.3**	0.1 U
ICS-DSS-23-SE-070212	sediment	7/2/2012		1212574-VB00K	82					1.42	0.2 U	**3.1**	0.2 U	**0.2**
ICS-DSS-14-SE-070212	sediment	7/2/2012		1212575-VB00L	62					4.96	**0.5 J_R**	**23.2**	0.3 U	**0.5**
ICS-DSS-16-SE-070212	sediment	7/2/2012		1212576-VB00M	83					1.05	0.2 U	**14.9**	0.2 U	**0.1**
ICS-DSS-18-SE-070212	sediment	7/2/2012		1212577-VB00N	70					2.66	0.3 U	**21.0**	0.3 U	**0.3**
ICS-DSS-13-SE-070312	sediment	7/3/2012		1212707-VB16A	77					1.85	0.2 U	**3.4**	**0.3**	**0.2**
ICS-DUP-01-SE-070312	sediment	7/3/2012	field dup of 13	1212708-VB16B	79					1.55	0.2 U	**3.3**	**0.3**	**0.1**
ICS-DSS-12-SE-070312	sediment	7/3/2012		1212709-VB16C	69					30.9	**2.2 J_R**	**8.3**	0.3 U	**4.3**
ICS-DSS-10-SE-070312	sediment	7/3/2012		1212710-VB16D	79					0.553	0.3 U	**4.2**	0.3 U	**0.3**
ICS-DSS-11-SE-070312	sediment	7/3/2012		1212711-VB16E	69					2.73	**0.3 J_R**	**8.1**	0.3 U	**1.0**
ICS-DSS-24-SE-070312	sediment	7/3/2012		1212712-VB16F	45					2.64	0.4 U	**11.1**	**0.5**	0.2 U
ICS-DSS-25-SE-070312	sediment	7/3/2012		1212713-VB16G	44					3.48	0.4 U	**9.7**	0.4 U	**0.4**
ICS-DSS-15-SE-070312	sediment	7/3/2012		1212714-VB16H	59					4.25	0.3 U	**19.1**	**0.4**	**0.4**
ICS-DSS-08-SE-070312	sediment	7/3/2012		1212715-VB16I	76		106.4	11.3	95.6	2.92	**0.3 J_R**	**13.9**	0.3 U	**0.9**
ICS-DSS-09-SE-070312	sediment	7/3/2012		1212716-VB16J	71					18.1	**1.9 J_R**	**13.0**	0.3 U	**8.2**
ICS-DSS-07-SE-070312	sediment	7/3/2012		1212717-VB16K	76					3.34	0.3 U	**10.6**	0.3 U	**0.2**
ICS-DSS-02-SE-070312	sediment	7/3/2012		1212718-VB16L	76		137.1	17.0	117.2	3.24	0.2 U	**10.0**	0.2 U	**0.2**
ICS-DSS-03-SE-070312	sediment	7/3/2012		1212719-VB16M	49					3.45	0.4 U	**17.2**	0.4 U	**0.6**
ICS-DSS-04-SE-070312	sediment	7/3/2012		1212720-VB16N	64	2.60	103.6	55.1	66.8	2.83	**0.7 J_R**	**13.2**	0.3 U	**5.3**
ICS-DUP-02-SE-070312	sediment	7/3/2012	field dup of 04	1212721-VB16O	61					7.86	**1.2 J_R**	**17.6**	0.3 U	**7.4**
ICS-DSS-05-SE-070312	sediment	7/3/2012		1212722-VB16P	65					2.62	**0.5 J_R**	**28.8**	0.3 U	**0.7**
ICS-DSS-06-SE-070312	sediment	7/3/2012		1212723-VB16Q	62					5.55	**0.5 J_R**	**7.1**	0.3 U	**2.6**
ICS-DSS-31-SE-070312	sediment	7/3/2012		1212724-VB16R	61									
ICS-DSS-32-SE-070312	sediment	7/3/2012		1212725-VB16S	35									

J_R = estimate; due to low matrix spike recovery. Value likely biased low.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	Chromium 7440-47-3 mg/kg, dry	Copper 7440-50-8 mg/kg, dry	Lead 7439-92-1 mg/kg, dry	Mercury 7439-97-6 mg/kg, dry	Nickel 7440-02-0 mg/kg, dry	Silver 7440-22-4 mg/kg, dry	Zinc 7440-66-6 mg/kg, dry	Total Petroleum Hydrocarbons Diesel-range mg/kg, dry	Total Petroleum Hydrocarbons Lube-range mg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry
ICS-DSS-19-SE-070212	**65**	**103**	**343**	**1.73**	**26**	**1.2**	**318**	240	**710**	**140 J_Q**	20 U	**12**
ICS-DSS-21-SE-070212	**29**	**54.4**	**55.9**	**0.54**	**20.5**	0.4 U	**146**	49	**150**	**67 J_Q**	19 U	**2.5 J**
ICS-DSS-20-SE-070212	**26**	**37.4**	**42.3**	**0.18**	**18.0**	0.3 U	**109**	28	**88**	**44 J_Q**	19 U	4.7 U
ICS-DSS-22-SE-070212	**21**	**33.4**	**22.3**	**0.17**	**18.2**	**0.3**	**81**	58	**170**	**11 J**	19 U	4.8 U
ICS-DSS-28-SE-070212	**33**	**55.5**	**47.5**	**0.34**	**25.7**	**0.60**	**121**	170	**570**	**28 J_Q**	19 U	**5.6**
ICS-DSS-30-SE-070212	**13.2**	**17.4**	**16.3**	**0.06**	**10.5**	0.2 U	**62**	6.3 U	**14**	19 U	19 U	4.8 U
ICS-DSS-29-SE-070212	**15.7**	**30.3**	**74.1**	**0.05**	**17.7**	0.2 U	**100**	11	**120**	18 U	18 U	4.6 U
ICS-DSS-26-SE-070212	**268**	**182**	**1690**	**0.83**	**70.8**	**0.4**	**1340**	54	**180**	**190 J_Q**	18 U	4.6 U
ICS-DSS-27-SE-070212	**39.6**	**120**	**683**	**0.92**	**26.5**	**0.5**	**242**	150	**520**	**35 J_Q**	18 U	4.6 U
ICS-DSS-17-SE-070212	**32**	**40.3**	**44.4**	**0.15**	**28.7**	0.3 U	**75**	24	**100**	**16 J**	18 U	4.6 U
ICS-DSS-23-SE-070212	**24.3**	**38.9**	**29.5**	**0.08**	**26.9**	0.2 U	**58**	**34**	**95**	20 U	20 U	4.9 U
ICS-DSS-14-SE-070212	**36.1**	**70.8**	**201**	**0.17**	**34.9**	0.3 U	**188**	24	**130**	**31 J_Q**	20 U	4.9 U
ICS-DSS-16-SE-070212	**15.3**	**24.6**	**18.0**	**0.03**	**23.5**	0.2 U	**66**	8.5	**35**	19 U	19 U	4.8 U
ICS-DSS-18-SE-070212	**21.2**	**46.8**	**55.5**	**0.20**	**24.7**	0.3 U	**150**	18	**83**	**12 J**	19 U	4.7 U
ICS-DSS-13-SE-070312	**25.0**	**24.8**	**42.1**	**0.12**	**25.3**	0.2 U	**52**	43	**90**	**14 J**	19 U	**2.4 J**
ICS-DUP-01-SE-070312	**20.1**	**22.5**	**48.3**	**0.11**	**21.6**	0.2 U	**55**	40	**67**	**14 J**	19 U	4.8 U
ICS-DSS-12-SE-070312	**1110**	**115**	**3930**	**0.16**	**151**	**0.4**	**3820**	**12,000**	**42,000**	**5700**	1700 U	440 U
ICS-DSS-10-SE-070312	**28.4**	**24.5**	**59.0**	**0.21**	**25.2**	0.3 U	**74**	14	**56**	18 U	18 U	4.6 U
ICS-DSS-11-SE-070312	**90.6**	**67.1**	**626**	**0.71**	**31.8**	0.3 U	**281**	56	**220**	**66**	19 U	4.8 U
ICS-DSS-24-SE-070312	**27**	**53**	**59.7**	**0.22**	**19**	0.4 U	**117**	52	**180**	19 U	19 U	4.8 U
ICS-DSS-25-SE-070312	**28**	**58**	**50.4**	**0.34**	**22**	0.4 U	**130**	77	**230**	**32**	20 U	4.9 U
ICS-DSS-15-SE-070312	**23.2**	**49.4**	**55.5**	**0.21**	**20.5**	0.3 U	**168**	68	**280**	**28**	20 U	5.0 U
ICS-DSS-08-SE-070312	**70.5**	**91.1**	**201**	**3.8**	**26.7**	**0.3**	**195**	200	**620**	**55**	19 U	4.8 U
ICS-DSS-09-SE-070312	**288**	**260**	**5920**	**14.3**	**39.1**	**1.3**	**1220**	**6700**	**15,000**	**650 J**	720 U	**900**
ICS-DSS-07-SE-070312	**24.0**	**36.1**	**75.6**	**0.25**	**26.6**	0.3 U	**141**	17	**83**	19 U	19 U	4.7 U
ICS-DSS-02-SE-070312	**26.4**	**88.3**	**35.5**	**0.12**	**32.1**	0.2 U	**98**	52	**280**	55 U	55 U	14 U
ICS-DSS-03-SE-070312	**37**	**90**	**92.3**	**0.45**	**27**	0.4 U	**289**	120	**440**	**28**	19 U	4.8 U
ICS-DSS-04-SE-070312	**167**	**217**	**1250**	**2.42**	**27.7**	**0.3**	**1270**	**1400**	**3000**	83 U	83 U	21 U
ICS-DUP-02-SE-070312	**298**	**224**	**2190**	**2.20**	**32.8**	**0.5**	**1590**	**1400**	**2600**	**50 J**	84 U	21 U
ICS-DSS-05-SE-070312	**84.6**	**144**	**150**	**0.28**	**41.3**	0.3 U	**190**	76	**240**	**18 J**	20 U	5.0 U
ICS-DSS-06-SE-070312	**612**	**115**	**633**	**7.7**	**25.9**	**1.3**	**400**	570	**1600**	**88**	20 U	5.0 U
ICS-DSS-31-SE-070312												
ICS-DSS-32-SE-070312												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry	N-Nitroso-di-N-propylamine 621-64-7 µg/kg, dry	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry
ICS-DSS-19-SE-070212	**30**	**110**	**17**	**22**	**90**	20 U	20 U	20 U	**22**	**20 J**	**380 J**	200 U
ICS-DSS-21-SE-070212	**8.1**	**200**	**3.0 J**	**18**	**29 J**	19 U	19 U	19 U	19 U	**8.9 J**	**360 J**	190 U
ICS-DSS-20-SE-070212	4.7 U	**52**	4.7 U	4.7 U	**11 J**	19 U	19 U	19 U	19 U	**3.0 J**	**1200**	190 U
ICS-DSS-22-SE-070212	**4.6 J**	**9.6 J**	4.8 U	4.8 U	38 U	19 U	19 U	19 U	19 U	**3.0 J**	380 U	190 U
ICS-DSS-28-SE-070212	**5.8**	**51**	**2.4 J**	4.7 U	**17 J**	19 U	19 U	19 U	19 U	**3.7 J**	**120 J**	190 U
ICS-DSS-30-SE-070212	4.8 U	**10 J**	4.8 U	4.8 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U	190 U
ICS-DSS-29-SE-070212	4.6 U	**7.3 J**	4.6 U	4.6 U	37 U	18 U	18 U	18 U	18 U	18 U	370 U	180 U
ICS-DSS-26-SE-070212	**8.5**	**33**	**16**	**43**	**71**	18 U	18 U	18 U	**500**	**13 J**	**610**	**20 J**
ICS-DSS-27-SE-070212	**4.4 J**	**19**	**3.6 J**	**6.6**	**17 J**	18 U	18 U	18 U	**21**	**5.7 J**	**220 J**	180 U
ICS-DSS-17-SE-070212	4.6 U	**7.4 J**	4.6 U	**21**	**12 J**	18 U	18 U	18 U	18 U	**3.4 J**	370 U	180 U
ICS-DSS-23-SE-070212	4.9 U	**8.2 J**	4.9 U	4.9 U	39 U	20 U	20 U	20 U	20 U	20 U	390 U	200 U
ICS-DSS-14-SE-070212	4.9 U	**40**	4.9 U	**2.8 J**	39 U	20 U	20 U	20 U	20 U	20 U	**230 J**	200 U
ICS-DSS-16-SE-070212	4.8 U	**8.5 J**	4.8 U	4.8 U	39 U	19 U	19 U	19 U	19 U	19 U	390 U	190 U
ICS-DSS-18-SE-070212	4.7 U	**21**	4.7 U	4.7 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U	190 U
ICS-DSS-13-SE-070312	**3.9 J**	**7.3 J**	**4.1 J**	4.7 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U	190 U
ICS-DUP-01-SE-070312	**2.5 J**	**8.8 J**	4.8 U	4.8 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U	190 U
ICS-DSS-12-SE-070312	440 U	**20,000**	**1000**	440 U	3500 U	**14,000**	1700 U	1700 U	1700 U	**4400**	35,000 U	17,000 U
ICS-DSS-10-SE-070312	4.6 U	**7.1 J**	4.6 U	4.6 U	37 U	18 U	18 U	18 U	18 U	18 U	370 U	180 U
ICS-DSS-11-SE-070312	**4.8**	**18 J**	**9.4**	**12**	**42**	19 U	19 U	19 U	**14 J**	**14 J**	**330 J**	190 U
ICS-DSS-24-SE-070312	**3.5 J**	**84**	4.8 U	**3.5 J**	**14 J**	19 U	19 U	19 U	19 U	**3.0 J**	**190 J**	190 U
ICS-DSS-25-SE-070312	**5.4**	**170**	**3.8 J**	4.9 U	**18 J**	20 U	20 U	20 U	20 U	**3.1 J**	**250 J**	200 U
ICS-DSS-15-SE-070312	**4.3 J**	**30**	**4.3 J**	**3.8 J**	**27 J**	20 U	20 U	20 U	20 U	**3.2 J**	**120 J**	200 U
ICS-DSS-08-SE-070312	**12**	**12 J**	**13**	**4.9**	**14 J**	19 U	19 U	19 U	19 U	**4.8 J**	**210 J**	190 U
ICS-DSS-09-SE-070312	**7600**	**640 J**	**12,000**	**620**	**1900**	720 U	720 U	720 U	1400 U	**830**	14,000 U	**1100 J**
ICS-DSS-07-SE-070312	4.7 U	**9.0 J**	**3.4 J**	4.7 U	37 U	19 U	19 U	19 U	19 U	19 U	370 U	190 U
ICS-DSS-02-SE-070312	14 U	55 U	14 U	14 U	110 U	55 U	55 U	55 U	55 U	55 U	1100 U	550 U
ICS-DSS-03-SE-070312	**4.1 J**	**62**	4.8 U	**4.6 J**	**13 J**	19 U	19 U	19 U	19 U	**4.8 J**	**160 J**	190 U
ICS-DSS-04-SE-070312	21 U	83 U	21 U	21 U	**79 J**	83 U	83 U	83 U	**50 J**	**50 J**	1700 U	830 U
ICS-DUP-02-SE-070312	21 U	**34 J**	21 U	**12 J**	**46 J**	84 U	84 U	84 U	**50 J**	**34 J**	**940 J**	840 U
ICS-DSS-05-SE-070312	**4.4 J**	**29**	5.0 U	5.0 U	**14 J**	20 U	20 U	20 U	20 U	20 U	400 U	200 U
ICS-DSS-06-SE-070312	**3.4 J**	**25**	**6.3**	**16**	**32 J**	20 U	20 U	20 U	20 U	**11 J**	**250 J**	200 U
ICS-DSS-31-SE-070312												
ICS-DSS-32-SE-070312												

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,6-Trichloro-phenol 88-06-2 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry
ICS-DSS-19-SE-070212	**22**	**92**	98 U	**120**	98 U	98 U	20 U	**68**	**25**	**49**	**33**
ICS-DSS-21-SE-070212	**2.9 J**	**41**	94 U	**35**	94 U	94 U	19 U	**20**	**15 J**	**44**	**24**
ICS-DSS-20-SE-070212	4.7 U	**18 J**	93 U	**17 J**	93 U	93 U	19 U	**2900**	**10 J**	19 U	**15 J**
ICS-DSS-22-SE-070212	4.8 U	**64**	96 U	**21**	96 U	96 U	19 U	19 U	**12 J**	**31**	**20**
ICS-DSS-28-SE-070212	**3.6 J**	**21**	94 U	**21**	94 U	94 U	19 U	19 U	19 U	19 U	**14 J**
ICS-DSS-30-SE-070212	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U	19 U	19 U
ICS-DSS-29-SE-070212	4.6 U	18 U	92 U	18 U	92 U	92 U	18 U	18 U	18 U	18 U	18 U
ICS-DSS-26-SE-070212	**36**	**180**	93 U	**150**	93 U	93 U	18 U	**82**	**12 J**	**36**	**52**
ICS-DSS-27-SE-070212	**7.0**	**78**	92 U	**68**	92 U	**20 J**	18 U	**100**	**54**	**10 J**	**27**
ICS-DSS-17-SE-070212	4.6 U	**130**	92 U	**35**	92 U	92 U	18 U	**12 J**	**11 J**	18 U	**34**
ICS-DSS-23-SE-070212	**4.6 J**	**110**	98 U	**36**	98 U	98 U	20 U	**9.8 J**	20 U	**190**	**220**
ICS-DSS-14-SE-070212	4.9 U	**20**	97 U	**18 J**	97 U	97 U	20 U	**9.7 J**	**11 J**	20 U	20 U
ICS-DSS-16-SE-070212	4.8 U	19 U	97 U	19 U	97 U	97 U	19 U	19 U	19 U	19 U	19 U
ICS-DSS-18-SE-070212	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U	19 U	19 U
ICS-DSS-13-SE-070312	**12**	**110**	94 U	**62**	94 U	94 U	19 U	19 U	**17 J**	**13 J**	**30**
ICS-DUP-01-SE-070312	**8.4**	**82**	96 U	**45**	96 U	96 U	19 U	19 U	**11 J**	19 U	**21**
ICS-DSS-12-SE-070312	440 U	**120,000**	8700 U	**50,000**	8700 U	8700 U	1700 U	1700 U	**8700**	**39,000**	**26,000**
ICS-DSS-10-SE-070312	4.6 U	**62**	92 U	**12 J**	92 U	92 U	18 U	18 U	18 U	18 U	18 U
ICS-DSS-11-SE-070312	**15**	**130**	96 U	**100**	96 U	96 U	19 U	**60**	19 U	19 U	**60**
ICS-DSS-24-SE-070312	4.8 U	**20**	97 U	**14 J**	97 U	97 U	19 U	19 U	**13 J**	**9.7 J**	**14 J**
ICS-DSS-25-SE-070312	**3.0 J**	**20**	99 U	**15 J**	99 U	99 U	20 U	20 U	20 U	20 U	**11 J**
ICS-DSS-15-SE-070312	5.0 U	**15 J**	99 U	**15 J**	99 U	99 U	20 U	20 U	20 U	20 U	20 U
ICS-DSS-08-SE-070312	**3.6 J**	**47**	96 U	**52**	96 U	96 U	19 U	**500**	**12 J**	19 U	**12 J**
ICS-DSS-09-SE-070312	**1400**	**12,000**	3600 U	**13,000**	3600 U	3600 U	720 U	720 U	**650 J**	**4600**	**3800**
ICS-DSS-07-SE-070312	4.7 U	19 U	93 U	19 U	93 U	93 U	19 U	19 U	19 U	19 U	19 U
ICS-DSS-02-SE-070312	14 U	55 U	270 U	55 U	270 U	270 U	55 U	55 U	55 U	**100**	**30 J**
ICS-DSS-03-SE-070312	19 U	**18 J**	97 U	**16 J**	97 U	97 U	19 U	19 U	**31**	**22**	**18 J**
ICS-DSS-04-SE-070312	**15 J**	**79 J**	420 U	**75 J**	420 U	420 U	83 U	**180**	**58 J**	83 U	83 U
ICS-DUP-02-SE-070312	**20 J**	**96**	420 U	**100**	420 U	420 U	84 U	**67 J**	**50 J**	84 U	84 U
ICS-DSS-05-SE-070312	5.0 U	20 U	99 U	20 U	99 U	99 U	20 U	**11 J**	**23**	20 U	20 U
ICS-DSS-06-SE-070312	**6.8**	**43**	99 U	**80**	99 U	99 U	20 U	**54**	**11 J**	20 U	20 U
ICS-DSS-31-SE-070312											
ICS-DSS-32-SE-070312											

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry
ICS-DSS-19-SE-070212	98 U	98 U	**36 J**	20 U	**51**	20 U	**400**	**330**	**49**	**100**	**130**	**500**
ICS-DSS-21-SE-070212	94 U	94 U	47 U	19 U	**41**	19 U	**65 J**	**430**	**31**	**90**	**38**	**540**
ICS-DSS-20-SE-070212	93 U	93 U	47 U	19 U	**16 J**	**3.1 J**	47 U	**100**	**20**	**33**	**320**	**290**
ICS-DSS-22-SE-070212	96 U	96 U	48 U	19 U	**18 J**	19 U	48 U	**110**	**11 J**	**28**	19 U	**190**
ICS-DSS-28-SE-070212	94 U	94 U	47 U	19 U	**18 J**	**19**	47 U	**55**	19 U	**26**	**14 J**	**160**
ICS-DSS-30-SE-070212	96 U	96 U	48 U	19 U	19 U	19 U	48 U	**18 J**	19 U	19 U	19 U	**24**
ICS-DSS-29-SE-070212	92 U	92 U	46 U	18 U	18 U	18 U	46 U	**18 J**	18 U	18 U	**10 J**	**41**
ICS-DSS-26-SE-070212	93 U	93 U	46 U	18 U	**40**	**42**	**400**	**380**	**50**	**68**	**220**	**410**
ICS-DSS-27-SE-070212	92 U	92 U	46 U	18 U	**12 J**	**7.8 J**	**140 J**	**170**	**29**	**62**	**31**	**410**
ICS-DSS-17-SE-070212	92 U	92 U	46 U	18 U	18 U	**2.9 J**	**24 J**	**110**	**10 J**	**23**	18 U	**98**
ICS-DSS-23-SE-070212	98 U	98 U	49 U	20 U	**400**	20 U	49 U	**150**	**14 J**	**70**	20 U	**510**
ICS-DSS-14-SE-070212	97 U	97 U	49 U	20 U	20 U	**3.5 J**	**21 J**	**60**	**16 J**	**18 J**	20 U	**120**
ICS-DSS-16-SE-070212	97 U	97 U	48 U	19 U	19 U	19 U	48 U	19 U	19 U	19 U	19 U	**11 J**
ICS-DSS-18-SE-070212	94 U	94 U	**39 J**	19 U	19 U	**3.4 J**	**15 J**	**24**	**22**	**11 J**	**22**	**63**
ICS-DSS-13-SE-070312	94 U	94 U	47 U	19 U	**25**	**11 J**	**45 J**	**180**	19 U	**40**	19 U	**180**
ICS-DUP-01-SE-070312	96 U	96 U	48 U	19 U	**18 J**	**8.4 J**	**27 J**	**130**	19 U	**29**	19 U	**130**
ICS-DSS-12-SE-070312	8700 U	8700 U	4400 U	1700 U	**58,000**	**4800**	**1000 J**	**380,000**	**48,000**	**78,000**	**44,000**	**390,000**
ICS-DSS-10-SE-070312	92 U	92 U	46 U	18 U	18 U	18 U	**48 J_Q**	**28**	18 U	18 U	**18 J**	**29**
ICS-DSS-11-SE-070312	96 U	96 U	48 U	19 U	**14 J**	**14 J**	**290**	**200**	**15 J**	**36**	**43**	**160**
ICS-DSS-24-SE-070312	97 U	97 U	48 U	19 U	**16 J**	19 U	**18 J**	**230**	**20**	**35**	19 U	**370**
ICS-DSS-25-SE-070312	99 U	99 U	49 U	20 U	**12 J**	**2.7 J**	**28 J**	**90**	**16 J**	**28**	**13 J**	**200**
ICS-DSS-15-SE-070312	99 U	99 U	50 U	20 U	20 U	**3.3 J**	**51**	**61**	**9.9 J**	**15 J**	20 U	**130**
ICS-DSS-08-SE-070312	96 U	96 U	48 U	19 U	**10 J**	**9.1 J**	**920**	**110**	**19**	**33**	**72**	**150**
ICS-DSS-09-SE-070312	3600 U	3600 U	1800 U	720 U	**6200**	**4000**	**6500 J**	**14,000**	**4500**	**16,000**	**3400**	**7000**
ICS-DSS-07-SE-070312	93 U	93 U	47 U	19 U	19 U	19 U	**25 J**	**29**	19 U	19 U	19 U	**49**
ICS-DSS-02-SE-070312	270 U	270 U	140 U	55 U	**66**	55 U	140 U	**710**	**52 J**	**180**	55 U	**1100**
ICS-DSS-03-SE-070312	97 U	97 U	48 U	19 U	**23**	19 U	**56**	**270**	**70**	**85**	19 U	**1100**
ICS-DSS-04-SE-070312	420 U	420 U	210 U	83 U	83 U	**32 J**	**360**	**460**	83 U	**71 J**	**130**	**1100**
ICS-DUP-02-SE-070312	420 U	420 U	210 U	84 U	84 U	**38 J**	**400**	**160**	84 U	**50 J**	**120**	**200**
ICS-DSS-05-SE-070312	99 U	99 U	50 U	20 U	**12 J**	**3.5 J**	**22 J**	**390**	**32**	**29**	20 U	**1100**
ICS-DSS-06-SE-070312	99 U	99 U	50 U	20 U	20 U	**14 J**	**820**	**74**	20 U	**25**	**85**	**78**
ICS-DSS-31-SE-070312												
ICS-DSS-32-SE-070312												

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J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	Pyrene 129-00-0 µg/kg, dry	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
ICS-DSS-19-SE-070212	**730**	**110 J_Q**	**260**	**1400**	**460**	20 U	**730**	**350**	**190**	**99**	**220**	647	3539
ICS-DSS-21-SE-070212	**540**	**150 J_Q**	**200**	**320**	**340**	19 U	**410**	**180**	**110**	**53**	**140**	661	2513
ICS-DSS-20-SE-070212	**280**	19 U	**160**	**98**	**370**	19 U	**300**	**82**	**51**	**21**	**53**	177	1607
ICS-DSS-22-SE-070212	**230**	**12 J**	**63**	**60**	**81**	19 U	**110**	**56**	**34**	**11 J**	**46**	263	821
ICS-DSS-28-SE-070212	**160**	19 U	**43**	**190**	**50**	19 U	**77**	**28**	**18 J**	19 U	**23**	120	559
ICS-DSS-30-SE-070212	**25**	19 U	19 U	**24**	**15 J**	19 U	**26 J**	19 U	**10 J**	19 U	**10 J**	18	110
ICS-DSS-29-SE-070212	**41**	18 U	**18 J**	**26**	**45**	18 U	**54**	**19**	**17 J**	18 U	**25**	18	260
ICS-DSS-26-SE-070212	**360**	**260 J_Q**	**170**	**550**	**240**	18 U	**420**	**200**	**160**	**47**	**200**	716	2207
ICS-DSS-27-SE-070212	**400**	18 U	**250**	**180**	**360**	18 U	**580**	**280**	**170**	**77**	**180**	386	2707
ICS-DSS-17-SE-070212	**89**	**14 J**	**42**	**49**	**66**	18 U	**98**	**41**	18 U	18 U	**45**	274	479
ICS-DSS-23-SE-070212	**350**	20 U	**71**	**84**	**92**	20 U	**110**	**41**	**27**	20 U	**32**	920	1233
ICS-DSS-14-SE-070212	**110**	**25 J_Q**	**47**	**83**	**100**	20 U	**140**	**46**	**38**	**14 J**	**47**	109	662
ICS-DSS-16-SE-070212	**9.7 J**	19 U	19 U	**16 JB**	19 U	19 U	**14 J**	19 U	19 U	19 U	19 U	19	35
ICS-DSS-18-SE-070212	**66**	**16 J**	**34**	**79**	**67**	19 U	**140**	**44**	**34**	19 U	**38**	35	486
ICS-DSS-13-SE-070312	**170**	19 U	**76**	**79**	**87**	19 U	**130**	**76**	**43**	**13 J**	**49**	385	824
ICS-DUP-01-SE-070312	**120**	19 U	**60**	**63**	**77**	19 U	**100**	**54**	**36**	**12 J**	**38**	270	627
ICS-DSS-12-SE-070312	**290,000**	**44,000 J_Q**	**130,000**	**180,000**	**180,000**	1700 U	**120,000**	**71,000**	**21,000**	**13,000**	**19,000**	683,700	1,234,000
ICS-DSS-10-SE-070312	**28**	18 U	**12 J**	**57**	**19**	18 U	**30 J**	**13 J**	**9.2 J**	18 U	**13 J**	90	153
ICS-DSS-11-SE-070312	**150**	**58 J_Q**	**80**	**330**	**130**	19 U	**190**	**96**	**65**	**21**	**73**	380	965
ICS-DSS-24-SE-070312	**280**	**28 J_Q**	**96**	**300**	**190**	19 U	**230**	**94**	**50**	**26**	**50**	324	1386
ICS-DSS-25-SE-070312	**180**	**27 J_Q**	**100**	**270**	**160**	**27**	**240**	**100**	**58**	**20**	**70**	150	1128
ICS-DSS-15-SE-070312	**130**	**31 J_Q**	**53**	**300**	**98**	**40**	**140**	**52**	**38**	**20**	**57**	91	718
ICS-DSS-08-SE-070312	**160**	19 U	**72**	**150**	**130**	19 U	**190**	**78**	**110**	**37**	**160**	212	1087
ICS-DSS-09-SE-070312	**6800**	**1100**	**2700**	**9600**	**5200**	720 U	**3300**	**1800**	**900**	**580 J**	**1100**	53,450	29,380
ICS-DSS-07-SE-070312	**41**	19 U	**20**	**36 B**	**36**	19 U	**52**	**24**	**19**	**10 J**	**24**	29	275
ICS-DSS-02-SE-070312	**1000**	55 U	**470**	**260**	**680**	55 U	**940**	**440**	**270**	**140**	**300**	1056	5340
ICS-DSS-03-SE-070312	**920**	**43 J_Q**	**340**	**620**	**770**	19 U	**850**	**260**	**140**	**70**	**140**	449	4590
ICS-DSS-04-SE-070312	**710**	**230 J_Q**	**190**	**1300**	**410**	83 U	**470**	**220**	**140**	**71 J**	**210**	668	3521
ICS-DUP-02-SE-070312	**250**	84 U	**120**	**1200**	**180**	84 U	**290**	**180**	**120**	**71 J**	**190**	356	1601
ICS-DSS-05-SE-070312	**770**	20 U	**110**	**320**	**310**	20 U	**360**	**95**	**51**	**27**	**58**	454	2881
ICS-DSS-06-SE-070312	**78**	20 U	**35**	**260**	**110**	20 U	**180**	**150**	**61**	**17 J**	**83**	153	792
ICS-DSS-31-SE-070312													
ICS-DSS-32-SE-070312													

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.
B = associated value may be biased high due to contribution from laboratory background or method blank.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	Tributyltin ion 36643-28-4 µg/kg, dry	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry
ICS-DSS-19-SE-070212	**16**	1.0 U	1.0 U	1.0 U	8.2 U	22 U	10 U	130 U	10 U	120 U	**380**
ICS-DSS-21-SE-070212		1.7 U	2.4 U	0.49 U	1.6 U	2.2 U	4.9 U	9.9 U	4.9 U	9.9 U	**41**
ICS-DSS-20-SE-070212		0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	1.6 U	3.1 U	0.49 U	4.8 U	**8.8**
ICS-DSS-22-SE-070212		0.46 U	0.46 U	0.46 U	0.46 U	1.6 U	0.46 U	9.2 U	4.6 U	9.2 U	**28**
ICS-DSS-28-SE-070212		0.48 U	0.48 U	0.48 U	2.4 U	5.2 U	4.8 U	9.6 U	4.8 U	24 U	**40**
ICS-DSS-30-SE-070212		0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	**1.3**
ICS-DSS-29-SE-070212		0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.93 U	0.46 U	0.93 U	**1.5**
ICS-DSS-26-SE-070212		4.8 U	4.8 U	0.48 U	4.8 U	3.5 U	4.8 U	9.7 U	0.48 U	32 U	**70**
ICS-DSS-27-SE-070212		2.5 U	1.1 U	4.4 U	5.7 U	0.70 U	7.0 U	69 U	7.0 U	120 U	**310**
ICS-DSS-17-SE-070212		0.48 U	2.4 U	1.2 U	0.48 U	1.8 U	4.8 U	18 U	27 U	25 U	**110**
ICS-DSS-23-SE-070212		0.48 U	0.48 U	0.48 U	1.6 U	0.76 U	2.2 U	0.96 U	0.48 U	4.5 U	**5.4**
ICS-DSS-14-SE-070212		0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.93 U	0.47 U	7.2 U	**9.1**
ICS-DSS-16-SE-070212		0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U
ICS-DSS-18-SE-070212		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	1.5 U	3.3 U	0.48 U	5.6 U	**12**
ICS-DSS-13-SE-070312		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	3.0 U	15 U	0.48 U	8.1 U	22 U
ICS-DUP-01-SE-070312		0.49 U	0.49 U	0.49 U	1.1 U	0.49 U	1.2 U	4.9 U	0.49 U	8.7 U	25 U
ICS-DSS-12-SE-070312		300 U	300 U	300 U	300 U	300 U	300 U	600 U	300 U	600 U	600 U
ICS-DSS-10-SE-070312		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	17 U	28 U	1.6 U	14 U	**400**
ICS-DSS-11-SE-070312		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.5 U	15 U	3.3 U	26 U	180 U
ICS-DSS-24-SE-070312	**4.3**	0.49 U	1.2 U	3.4 U	1.4 U	2.5 U	4.9 U	9.8 U	4.9 U	9.8 U	60 U
ICS-DSS-25-SE-070312		1.1 U	3.3 U	37 U	2.4 U	0.48 U	4.8 U	9.6 U	0.48 U	9.6 U	57 U
ICS-DSS-15-SE-070312		0.84 U	3.1 U	1.8 U	2.7 U	2.2 U	4.8 U	14 U	0.48 U	9.6 U	**37**
ICS-DSS-08-SE-070312		1.6 U	1.6 U	1.6 U	1.6 U	2.8 U	1.6 U	32 U	16 U	69 U	120 U
ICS-DSS-09-SE-070312	**150**	54 U	34 U	34 U	680 U	2000 U	680 U	3200 U	200 U	1400 U	**5000 J_M**
ICS-DSS-07-SE-070312		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.80 U	3.8 U	0.48 U	9.5 U	9.5 U
ICS-DSS-02-SE-070312		0.47 U	3.8 U	0.47 U	2.2 U	0.47 U	4.7 U	9.4 U	0.47 U	9.4 U	3.2 U
ICS-DSS-03-SE-070312		2.8 U	2.3 U	4.9 U	4.5 U	4.6 U	0.49 U	23 U	0.49 U	17 U	**68**
ICS-DSS-04-SE-070312		3.8 U	30 U	3.8 U	15 U	44 U	190 U	380 U	27 U	1200 U	**2000**
ICS-DUP-02-SE-070312		3.8 U	3.8 U	3.8 U	14 U	37 U	190 U	380 U	24 U	930 U	1400 U
ICS-DSS-05-SE-070312		0.48 U	4.6 U	9.5 U	4.2 U	10 U	19 U	29 U	1.6 U	36 U	**130**
ICS-DSS-06-SE-070312	3.6 U	3.1 U	3.1 U	3.1 U	3.1 U	8.8 U	31 U	180 U	11 U	460 U	**2000**
ICS-DSS-31-SE-070312	**10**										
ICS-DSS-32-SE-070312	**9.6**										

U = nondetected at the associated lower reporting limit.

J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD (M.8081).

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry	Endrin aldehyde 7421-93-4 µg/kg, dry	trans-Chlordane 5103-74-2 µg/kg, dry	cis-Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry
ICS-DSS-19-SE-070212	170 U	74 U	**60 J_M**	21 U	**240 J_M**	46 U	21 U	66 U	**20 J_M**	**10 J_M**	1800 U
ICS-DSS-21-SE-070212	0.99 U	9.2 U	**16**	9.9 U	28 U	14 U	9.9 U	16 U	4.9 U	1.6 U	99 U
ICS-DSS-20-SE-070212	8.7 U	0.98 U	**2.3**	0.98 U	9.8 U	4.9 U	7.3 U	4.3 U	0.49 U	0.49 U	98 U
ICS-DSS-22-SE-070212	0.92 U	9.2 U	**5.9**	0.92 U	26 U	4.6 U	5.3 U	0.92 U	0.46 U	0.46 U	92 U
ICS-DSS-28-SE-070212	9.6 U	9.6 U	**39**	8.9 U	44 U	16 U	0.96 U	9.6 U	4.8 U	2.2 U	340 U
ICS-DSS-30-SE-070212	0.97 U	0.97 U	0.97 U	0.97 U	**2.6**	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	97 U
ICS-DSS-29-SE-070212	0.93 U	0.93 U	0.93 U	0.93 U	2.3 U	4.6 U	0.93 U	0.93 U	0.46 U	0.46 U	93 U
ICS-DSS-26-SE-070212	0.97 U	58 U	**21**	0.97 U	**22**	13 U	9.7 U	16 U	**29 J_M**	**17 J_M**	430 U
ICS-DSS-27-SE-070212	160 U	100 U	**40 J_M**	14 U	**400**	33 U	14 U	78 U	**10 J_M**	**7 J_M**	1400 U
ICS-DSS-17-SE-070212	0.95 U	41 U	**20 J_M**	20 U	**40 J_M**	120 U	37 U	64 U	9.6 U	9.6 U	950 U
ICS-DSS-23-SE-070212	6.7 U	0.96 U	**2.2**	1.9 U	5.3 U	4.8 U	2.8 U	4.0 U	0.48 U	0.48 U	96 U
ICS-DSS-14-SE-070212	9.3 U	0.93 U	**1.5**	0.93 U	9.3 U	4.7 U	9.3 U	6.0 U	0.47 U	0.47 U	93 U
ICS-DSS-16-SE-070212	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U	0.99 U	0.49 U	0.49 U	99 U
ICS-DSS-18-SE-070212	9.6 U	2.2 U	**1.5**	4.1 U	8.6 U	4.8 U	0.96 U	4.4 U	0.95 U	1.7 U	96 U
ICS-DSS-13-SE-070312	21 U	6.4 U	6.9 U	0.97 U	20 U	10 U	19 U	18 U	2.3 U	4.0 U	97 U
ICS-DUP-01-SE-070312	7.0 U	4.9 U	0.98 U	0.98 U	0.98 U	4.9 U	4.9 U	11 U	8.7 U	2.5 U	98 U
ICS-DSS-12-SE-070312	600 U	600 U	600 U	600 U	600 U	3000 U	600 U	600 U	300 U	300 U	60,000 U
ICS-DSS-10-SE-070312	48 U	17 U	0.97 U	24 U	48 U	4.8 U	35 U	22 U	8.1 U	9.5 U	240 U
ICS-DSS-11-SE-070312	100 U	15 U	15 U	15 U	15 U	15 U	15 U	64 U	24 U	25 U	590 U
ICS-DSS-24-SE-070312	9.8 U	9.8 U	0.98 U	9.8 U	0.98 U	8.7 U	9.8 U	23 U	4.9 U	2.7 U	98 U
ICS-DSS-25-SE-070312	9.6 U	9.6 U	0.96 U	9.6 U	9.6 U	14 U	9.6 U	9.6 U	4.8 U	4.8 U	150 U
ICS-DSS-15-SE-070312	9.6 U	9.6 U	0.96 U	7.3 U	9.6 U	5.6 U	9.6 U	9.6 U	4.8 U	1.4 U	96 U
ICS-DSS-08-SE-070312	32 U	32 U	3.2 U	3.2 U	32 U	16 U	32 U	49 U	31 U	16 U	730 U
ICS-DSS-09-SE-070312	68 U	1400 U	**1000 J_M**	1400 U	**6600 J_M**	340 U	990 U	1300 U	200 U	200 U	10,000 U
ICS-DSS-07-SE-070312	9.5 U	9.5 U	5.5 U	0.95 U	50 U	4.8 U	9.5 U	22 U	3.2 U	2.9 U	95 U
ICS-DSS-02-SE-070312	9.4 U	9.4 U	0.94 U	9.4 U	9.4 U	29 U	9.4 U	9.4 U	4.7 U	4.7 U	570 U
ICS-DSS-03-SE-070312	9.7 U	9.7 U	0.97 U	11 U	**42**	34 U	9.7 U	14 U	16 U	2.0 U	740 U
ICS-DSS-04-SE-070312	1600 U	380 U	**400 J_M**	7.7 U	**2200 J_M**	1900 U	380 U	380 U	**140 J_M**	**100 J_M**	8400 U
ICS-DUP-02-SE-070312	380 U	380 U	380 U	7.7 U	2200 U	1900 U	380 U	380 U	190 U	190 U	6300 U
ICS-DSS-05-SE-070312	34 U	12 U	9.3 U	9.3 U	**50 J_M**	19 U	25 U	18 U	**5 J_M**	0.48 U	97 U
ICS-DSS-06-SE-070312	650 U	110 U	**400 J_M**	6.2 U	**820 J_M**	310 U	62 U	330 U	**50 J_M**	**40 J_M**	2800 U
ICS-DSS-31-SE-070312											
ICS-DSS-32-SE-070312											

U = nondetected at the associated lower reporting limit.
J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD (M.8081).

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachloro-butadiene 87-68-3 µg/kg, dry	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-DSS-19-SE-070212	9.8 U	1.0 U	410 U	410 U	**4400**	**4700**	**3400**	410 U	410 U	12,500
ICS-DSS-21-SE-070212	2.0 U	0.49 U	40 U	40 U	**450**	**580**	**490**	40 U	40 U	1520
ICS-DSS-20-SE-070212	0.49 U	0.49 U	39 U	39 U	**240**	**320**	**230**	39 U	39 U	790
ICS-DSS-22-SE-070212	0.46 U	0.46 U	38 U	38 U	**540**	**760**	**400**	38 U	38 U	1700
ICS-DSS-28-SE-070212	0.48 U	0.48 U	38 U	38 U	**1100**	**1200**	**580**	38 U	38 U	2880
ICS-DSS-30-SE-070212	0.49 U	0.49 U	3.9 U	3.9 U	39 U	**130**	**44**	3.9 U	3.9 U	174
ICS-DSS-29-SE-070212	0.46 U	0.46 U	3.8 U	3.8 U	11 U	**30**	**29**	3.8 U	3.8 U	59
ICS-DSS-26-SE-070212	3.3 U	0.48 U	39 U	39 U	**1600**	**1800**	**770**	39 U	39 U	4170
ICS-DSS-27-SE-070212	4.9 U	0.70 U	280 U	280 U	980 U	**3100**	**2700**	280 U	280 U	5800
ICS-DSS-17-SE-070212	0.60 U	0.48 U	39 U	39 U	**190**	**270**	**280**	39 U	39 U	740
ICS-DSS-23-SE-070212	0.48 U	0.48 U	20 U	20 U	**180**	**200**	**180**	20 U	20 U	560
ICS-DSS-14-SE-070212	0.47 U	0.47 U	39 U	39 U	**72**	**180**	**330**	39 U	39 U	582
ICS-DSS-16-SE-070212	0.49 U	0.49 U	4.0 U	4.0 U	**8.0**	**12**	**22**	4.0 U	4.0 U	42
ICS-DSS-18-SE-070212	0.48 U	0.48 U	40 U	40 U	**110**	**190**	**200**	40 U	40 U	500
ICS-DSS-13-SE-070312	0.48 U	0.48 U	39 U	39 U	**280**	**230**	**200**	39 U	39 U	710
ICS-DUP-01-SE-070312	1.0 U	0.49 U	39 U	39 U	**260**	**260**	**210**	39 U	39 U	730
ICS-DSS-12-SE-070312	300 U	300 U	240 U	**11,000**	240 U	**8900**	**2600**	240 U	240 U	22,500
ICS-DSS-10-SE-070312	0.85 U	0.48 U	39 U	39 U	**690**	**630**	**600**	39 U	39 U	1920
ICS-DSS-11-SE-070312	3.6 U	1.5 U	120 U	120 U	**1500**	**1800**	**2000**	120 U	120 U	5300
ICS-DSS-24-SE-070312	1.6 U	0.49 U	98 U	98 U	**590**	**560**	**560**	98 U	98 U	1710
ICS-DSS-25-SE-070312	4.3 U	0.48 U	96 U	96 U	**500**	**530**	**420**	96 U	96 U	1450
ICS-DSS-15-SE-070312	0.48 U	0.77 U	96 U	96 U	**680**	**740**	**680**	96 U	96 U	2100
ICS-DSS-08-SE-070312	2.0 U	1.6 U	63 U	63 U	950 U	**2000**	**1400**	63 U	63 U	3400
ICS-DSS-09-SE-070312	1300 U	150 U	5400 U	**120,000**	5400 U	**44,000**	**30,000**	5400 U	5400 U	194,000
ICS-DSS-07-SE-070312	0.48 U	0.48 U	38 U	38 U	**71**	190 U	**520**	38 U	38 U	591
ICS-DSS-02-SE-070312	2.9 U	0.47 U	38 U	38 U	**190**	**210**	**170**	38 U	38 U	570
ICS-DSS-03-SE-070312	4.2 U	0.86 U	97 U	97 U	**450**	**530**	**560**	97 U	97 U	1540
ICS-DSS-04-SE-070312	17 U	3.8 U	310 U	310 U	**3800 J_M**	**10,000**	**14,000**	310 U	310 U	27,800
ICS-DUP-02-SE-070312	15 U	3.8 U	770 U	770 U	5800 U	**14,000**	**18,000**	770 U	770 U	32,000
ICS-DSS-05-SE-070312	0.48 U	0.48 U	97 U	**3500**	97 U	**1700**	**1200**	97 U	97 U	6400
ICS-DSS-06-SE-070312	5.7 U	3.1 U	250 U	250 U	**2500 J_M**	**5800**	**7000**	250 U	250 U	15,300
ICS-DSS-31-SE-070312										
ICS-DSS-32-SE-070312										

U = nondetected at the associated lower reporting limit.
J_M = estimated value from GC/MS (M.8270) analysis due to chemical interference on GC/ECD (M.8082).

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	gravel > 4750 µm	coarse sand 4750 - 2000 µm	medium sand 2000 - 425 µm	fine sand 425 - 75 µm	v. coarse silt 75 - 32 µm	coarse silt 32 - 22 µm	medium silt 22 - 13 µm	fine silt 13 - 7 µm	v. fine silt 7 - 3.2 µm	total silt 32 - 3.2 µm	clay 3.2 - 1.3 µm	clay < 1.3 µm	total fines < 32 µm
	%	%	%	%	%	%	%	%	%	%	%	%	%
ICS-DSS-19-SE-070212	0.0	0.2	4.6	35.3	1.7	8.7	9.6	15.7	9.6	45.3	3.5	11.3	60.1
ICS-DSS-21-SE-070212													
ICS-DSS-20-SE-070212													
ICS-DSS-22-SE-070212													
ICS-DSS-28-SE-070212													
ICS-DSS-30-SE-070212	8.1	2.7	14	56.5	4.7	2.7	1.3	3.1	1.3	13.1	0.9	4.0	18.0
ICS-DSS-29-SE-070212													
ICS-DSS-26-SE-070212													
ICS-DSS-27-SE-070212													
ICS-DSS-17-SE-070212	25.4	8.7	12.2	36.1	1.9	1.7	2.4	4.5	2.1	12.6	2.1	3.1	17.8
ICS-DSS-23-SE-070212													
ICS-DSS-14-SE-070212													
ICS-DSS-16-SE-070212													
ICS-DSS-18-SE-070212													
ICS-DSS-13-SE-070312													
ICS-DUP-01-SE-070312													
ICS-DSS-12-SE-070312													
ICS-DSS-10-SE-070312													
ICS-DSS-11-SE-070312													
ICS-DSS-24-SE-070312													
ICS-DSS-25-SE-070312													
ICS-DSS-15-SE-070312													
ICS-DSS-08-SE-070312	87.1	1.3	4.2	4.2	0.1	0.4	0.6	0.7	0.5	2.3	0.3	0.7	3.3
ICS-DSS-09-SE-070312													
ICS-DSS-07-SE-070312													
ICS-DSS-02-SE-070312	71.5	7.7	11.4	5.8	0.1	0.2	0.6	1.0	0.4	2.3	0.3	0.9	3.5
ICS-DSS-03-SE-070312													
ICS-DSS-04-SE-070312	23.9	7.9	21.4	32.6	0.4	1.1	2.6	2.5	2.2	8.8	1.5	4.0	14.3
ICS-DUP-02-SE-070312													
ICS-DSS-05-SE-070312													
ICS-DSS-06-SE-070312													
ICS-DSS-31-SE-070312													
ICS-DSS-32-SE-070312													

grain size analyses: % retained in each size fraction

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	2,3,7,8-TCDF 51207-31-9 ng/kg, dry	total TCDF 55722-27-5 ng/kg, dry	2,3,7,8-TCDD 1746-01-6 ng/kg, dry	total TCDD 41903-57-5 ng/kg, dry	1,2,3,7,8-PeCDF 57117-41-6 ng/kg, dry	2,3,4,7,8-PeCDF 57117-31-4 ng/kg, dry	total PeCDF 30402-15-4 ng/kg, dry	1,2,3,7,8-PeCDD 40321-76-4 ng/kg, dry	total PeCDD 36088-22-9 ng/kg, dry	1,2,3,4,7,8-HxCDF 70648-26-9 ng/kg, dry	1,2,3,6,7,8-HxCDF 57117-44-9 ng/kg, dry	2,3,4,6,7,8-HxCDF 60851-34-5 ng/kg, dry	1,2,3,7,8,9-HxCDF 72918-21-9 ng/kg, dry	total HxCDF 55684-94-1 ng/kg, dry
ICS-DSS-19-SE-070212	**22.1**	229	**30.8**	124	**21.0**	**44.2**	728	**60.5**	369	**265**	**71.7**	**102**	**38.7**	2750
ICS-DSS-21-SE-070212														
ICS-DSS-20-SE-070212														
ICS-DSS-22-SE-070212														
ICS-DSS-28-SE-070212														
ICS-DSS-30-SE-070212														
ICS-DSS-29-SE-070212														
ICS-DSS-26-SE-070212														
ICS-DSS-27-SE-070212														
ICS-DSS-17-SE-070212														
ICS-DSS-23-SE-070212														
ICS-DSS-14-SE-070212														
ICS-DSS-16-SE-070212														
ICS-DSS-18-SE-070212														
ICS-DSS-13-SE-070312														
ICS-DUP-01-SE-070312														
ICS-DSS-12-SE-070312														
ICS-DSS-10-SE-070312														
ICS-DSS-11-SE-070312														
ICS-DSS-24-SE-070312														
ICS-DSS-25-SE-070312														
ICS-DSS-15-SE-070312														
ICS-DSS-08-SE-070312	**12.4**	314	**15.6**	114	**12.7**	**30.9**	670	**49.0**	346	**163**	**68.9**	**86.9**	**19.3**	1810
ICS-DSS-09-SE-070312														
ICS-DSS-07-SE-070312														
ICS-DSS-02-SE-070312	**1.76**	31.0	**2.37**	15.9	**1.42 J**	**2.93**	58.4	**5.52**	36.2	**11.4**	**4.22**	**3.80**	**1.86 J**	162
ICS-DSS-03-SE-070312														
ICS-DSS-04-SE-070312														
ICS-DUP-02-SE-070312														
ICS-DSS-05-SE-070312														
ICS-DSS-06-SE-070312														
ICS-DSS-31-SE-070312														
ICS-DSS-32-SE-070312														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Sediment Analyses, July 2012

Field I.D.	1,2,3,4,7,8-HxCDD 39227-28-6 ng/kg, dry	1,2,3,6,7,8-HxCDD 57653-85-7 ng/kg, dry	1,2,3,7,8,9-HxCDD 19408-74-3 ng/kg, dry	total HxCDD 34465-46-8 ng/kg, dry	1,2,3,4,6,7,8-HpCDF 67562-39-4 ng/kg, dry	1,2,3,4,7,8,9-HpCDF 55673-89-7 ng/kg, dry	total HpCDF 38998-75-3 ng/kg, dry	1,2,3,4,6,7,8-HpCDD 35822-46-9 ng/kg, dry	total HpCDD 37871-00-4 ng/kg, dry	OCDF 39001-02-0 ng/kg, dry	OCDD 3268-87-9 ng/kg, dry	TEQ ND=0 ng/kg, dry	TEQ ND/2 ng/kg, dry
ICS-DSS-19-SE-070212	**67.1**	**367**	**306**	3060	**2090**	**117**	6780	**10,800**	22,200	**7250**	**117,000**	396	396
ICS-DSS-21-SE-070212													
ICS-DSS-20-SE-070212													
ICS-DSS-22-SE-070212													
ICS-DSS-28-SE-070212													
ICS-DSS-30-SE-070212													
ICS-DSS-29-SE-070212													
ICS-DSS-26-SE-070212													
ICS-DSS-27-SE-070212													
ICS-DSS-17-SE-070212													
ICS-DSS-23-SE-070212													
ICS-DSS-14-SE-070212													
ICS-DSS-16-SE-070212													
ICS-DSS-18-SE-070212													
ICS-DSS-13-SE-070312													
ICS-DUP-01-SE-070312													
ICS-DSS-12-SE-070312													
ICS-DSS-10-SE-070312													
ICS-DSS-11-SE-070312													
ICS-DSS-24-SE-070312													
ICS-DSS-25-SE-070312													
ICS-DSS-15-SE-070312													
ICS-DSS-08-SE-070312	**65.9**	**363**	**271**	2780	**1810**	**93.6**	5000	**8330**	15,400	**5080**	**70,100**	304	304
ICS-DSS-09-SE-070312													
ICS-DSS-07-SE-070312													
ICS-DSS-02-SE-070312	**7.05**	**26.9**	**27.3**	236	**144**	**5.09**	381	**771**	1520	**384**	**7400**	28.8	28.8
ICS-DSS-03-SE-070312													
ICS-DSS-04-SE-070312													
ICS-DUP-02-SE-070312													
ICS-DSS-05-SE-070312													
ICS-DSS-06-SE-070312													
ICS-DSS-31-SE-070312													
ICS-DSS-32-SE-070312													

TEQ (TCDD toxicity equivalence) based on WHO 2005 relative toxicity factors.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: December 10, 2012

SUBJECT: Data Evaluation/Assessment for 36 Soils and One NAPL Sample Collected during October 2012 from the ICS / [former] NW Cooperage Site, Seattle, WA

Forty nine soil samples and an NAPL were collected by Dalton, Olmsted & Fuglevand (DOF) staff during October 15-17, 2012 for the evaluation of soil quality. All samples were delivered in four delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within two days of collection. Samples were received on ice at temperatures between 0.9 and 5.1 degrees C, and maintained at the project laboratory at 4 degrees C prior to analyses. No chemical preservatives were specified nor required. Analyses were requested on thirty six soils, the NAPL, and a VOC's transport/trip blank.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012). All analyses were performed by methods presented in Table SAP-6 of the SAP.

VOC's	SW846-M.8260C	pH	SW846-M.9045
SVOC's	SW846-M.8270	SVOC's (selected)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. pesticides	SW846-M.8081
Hg	SW846-M.7471A	metals (exc Hg)	SW846-M.6020A
total organic halides	SW846-M.9076	total petroleum HC's	NWTPH-Dx & -Gx

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and selected analytes were further analyzed and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. These selected analytes include 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine (as diphenylamine), benzyl alcohol, and pentachlorophenol. Results for detected analytes were reported from the full-scan analyses or from the mode that yielded non-qualified data. For nondetected analytes, the lowest reporting limit between the two analytical modes was reported in the attached results table; generally from the SIM mode of analyses. Similarly, selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method and the volatile organic compound (VOC's) method (M.8260). The attached results table reports only one result, which is either one of the two

exhibiting the lowest reporting limit or the result with the least limitations in data quality. Naphthalene results generated by M.8260 (VOC's method) was not considered further for use due to generally elevated reporting limits as compared to the results generated by M.8270 (SVOC's method). Hexachlorobutadiene (HCBD) was analyzed and reported by both M.8260 (VOC's) and M.8081 (chlorinated pesticides). The result generated by M.8260 was not reported in the attached results table due to generally elevated reporting limits. NWTPH-Dx extract preparation was supplemented with silica gel chromatography and acid cleanup steps. Total organic halide (TOX) analyses in NAPL were subcontracted by ARI to Spectra Laboratories of Tacoma, Washington.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications.

Generally, [lower] **reporting limits** were consistent with specified-limits presented in the SAP (Table SAP-6). Exceptions are noted principally for organic compound analytes due to presence of chemical interferents and elevated levels of other target analytes. Specifically, samples LP3-SO-B, MW6-A and MW6-B (and its blind duplicate) required extract dilutions due to elevated levels of organic contaminants resulting in the elevation of some analyte nondetection reporting limits. These samples also exhibited elevated levels of petroleum hydrocarbons that necessitated extract dilutions in order to prevent instrumental overloading. Most of the elevated nondetects for the chlorinated pesticides are due to chemical interferences and elevated backgrounds for samples MW6-B (and its blind duplicate), MW7-A, LP3-SO-A, LP3-SO-B, LP4-SO-A and LP4-SO-B. Interferences in the determination of chlorinated pesticides are principally attributed to relatively elevated levels of PCB's. Selected pesticide data were qualified as estimated with the "J_P" qualifier code due to variability observed between the two GC [confirmation] columns; this is likely due to interferences from PCB's found in the same samples. Some Aroclors (commercial PCB mixtures) were reported with elevated reporting limits or nondetects due to elevated levels of other detected Aroclors that have the potential to contribute overlapping signals and imperfect pattern matches with standard Aroclor reference mixtures. Congener peak ratios showed sufficient variability within apparent PCB mixtures in some samples to warrant qualification of reported Aroclor mixtures with the "J_P" qualifier code, indicating an estimated concentration due to > 40% variability (or RPD/CV) in relative congener level contributions compared to the reference standard and/or > 40 RPD in Aroclor concentrations between the two GC column determinations. Considerable effort was made by the analysts to achieve the specified lower reporting limits when the sample matrix and chemical interferences would allow it. Analyte concentrations reported at less than the lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of the following:

Parameter detected in MB	Detected level (µg/kg)	Potentially affected groups
Methylene chloride	2.3	VN71, VN72
Methylene chloride	0.9	VO10, VO11
Naphthalene (VOC's)	0.6	VN72
Naphthalene (VOC's)	0.7	VO10, VO11
1,2,3-Trichlorobenzene	0.5	VO10, VO11
1,2,4-Trichlorobenzene	0.6	VO10, VO11
Phenol	1.3	VN71, VN72
bis(2-Ethylhexyl)phthalate	25	VN71, VN72
bis(2-Ethylhexyl)phthalate	35	VO10

Levels detected in MB's were generally less than or approximate to the lower reporting limits. Concentrations reported in project samples greater than 2x the MB level (with consideration of any sample/extract dilutions) are determined to be not adversely impacted by potential bias associated with laboratory background levels. Only phenol and *bis*(2-ethylhexyl)phthalate results in some samples are determined to be potentially biased [high] due to blank contamination and are thus qualified with the "J_B" qualifier code. No other data required qualification due to method blanks performance.

No field equipment **rinsate blanks** were specified in the project SAP nor were any collected. A single **trip/transport blank** was generated and submitted for analysis and determination of potential contamination during handling of VOC's and TPH-Gx samples. Results of analysis are reported in the attached table. Only acetone was detected at approximately 3.3 µg/L, which is less than the lower reporting limit of 5.0 µg/L. This level is sufficiently low to not adversely impact reported results. No data required qualification due to field blank performance.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. Some recoveries were nonevaluable due to high native levels of analyte interfering with [low] spike levels, such as hexachlorobutadiene (HCBD) in sample MW6-SO-A, and elevated chemical interferences with δ-BHC and endrin aldehyde in sample LP2-SO-A. Several analytes, such as hexachloroethane, acetone, methylene chloride, *trans*-1,2-dichloroethene, acrolein, δ-BHC, and endrin ketone exhibited MS/MSD recoveries outside specification, but not sufficient to require qualification of associated results, which were all nondetects. Associated LCS/LCSD recoveries for these specific analytes were all within the acceptance range. LCS/LCSD recoveries were outside the specified ranges for N-nitrosodiphenylamine, carbazole, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene, and total benzofluoranthenes for delivery groups VN71 and VN72, however, associated MS/MSD performances were acceptable. No associated data required qualification. Antimony (Sb) matrix spike recoveries are reported consistently low in soil samples at 7.5%, 10.7% and 11.2%. Sb LCS and SRM recoveries are determined to be acceptable. This behaviour for Sb is typical due to formation of Sb-SiO_4 complexes in the presence of soil minerals; however, positive hits for Sb are thus qualified with the "J_R" qualifier code to indicate results are considered estimates (biased low) due to low matrix spike recoveries. Recoveries of spike analytes for all analyses were determined to be acceptable, with the exception noted above for antimony, requiring qualification of associated results as estimates with the "J_R" code.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-Gx, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), and PCB's. Four labeled compounds were utilized for the evaluation of VOC's recovery performance. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance. Trifluorotoluene and bromobenzene were used as surrogates for the TPH-Gx analyses, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. All surrogate recoveries were within specification, with the exception of elevated DCBP, for the analyses of PCB's in samples LP1-SO-B, LP3-SO-A, LP3-SO-B, LP4-SO-A, and LP4-SO-B due to moderate levels of interferences manifested as an elevated chromatographic baseline and relatively high levels of Aroclor 1260, but not sufficient to adversely affect PCB's data quality (Aroclor 1260 contains small amounts of DCBP). No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV) checks revealed occasional [minor] noncompliant responses for bromomethane, 2-butanone, acetone, 1,1-dichloroethene, carbon disulfide, 1,1,1,2-tetrachloroethane, bromoform, naphthalene (VOC's), pentachlorophenol (M.8270-SIM), butylbenzylphthalate (M.8279-SIM), carbazole, isophorone, chlorophenyl phenylether, and 4,4'-DDT. Reported data associated with noncompliant CCV's are nonetheless qualified as estimates with the "J_Q" code, even though the data quality, by other measures, is generally within acceptance limits.

Two pairs of blind **field duplicate** samples were collected and submitted for analyses for the assessment of monitoring variability. Duplicate pairs are identified in the attached table of sample results; MW3-A / DUP1 and MW6-B / DUP2. Variability in terms of relative percent difference (RPD) for all parameters generally averaged less than 25% for duplicate pairs. Greatest RPDs (up to 116 & 135) were observed for organic contaminants, such as trimethylbenzene and dibenzofuran, in soils from MW6-A and its associated blind duplicate. Greatest variabilities were generally associated with contaminants exhibiting relatively high concentrations. This is characteristic of high heterogeneity in contaminated environmental media. Laboratory duplicate analyses were generally less than 20 RPD (within SAP specifications).

TPH-Dx analyses indicate there to be relatively high variability across the site regarding the type of hydrocarbon mixtures present. Bold type values are associated with the patterns that most likely identify the hydrocarbon mixtures present, such as gasoline, diesel fuel and/or motor/lubricant oil. Samples LP3-SO-B and LP3-SO-C also show presence of a light hydrocarbon solvent overlaying a diesel pattern and lube-type hydrocarbon mixture. LP4-NAPL exhibits hydrocarbon patterns resembling gasoline, light hydrocarbon solvent, diesel fuel, and motor oil lubricant.

Sample results reported here are determined to be in general compliance with method and SAP requirements. Most deviations of data quality from SAP and method specifications are

associated with generally elevated levels of multiple contaminants in site soils. All reported data for soil and NAPL samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	pH	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3	Copper 7440-50-8	Lead 7439-92-1
					%	SU	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-LP1-SO-A-101512	soil	10/15/2012	3 - 5'	1220278-VN72E	90		**0.4 J_R**	**14.5**	**0.2**	**0.4**	**30.1**	**44.6**	**403**
ICS-LP1-SO-B-101512	soil	10/15/2012	6.5 - 8'	1220274-VN72A	58	7.41	0.3 U	**21.4**	**0.4**	**1.7**	**60.5**	**103**	**448**
ICS-LP1-SO-C-101512	soil	10/15/2012	10.5 - 12'	1220279-VN72F	75		0.3 U	**2.2**	0.3 U	0.1 U	**12.9**	**19.7**	**2.5**
ICS-LP1-SO-D-101512	soil	10/15/2012	16 - 18'	1220287-VN72N									
ICS-LP2-SO-A-101512	soil	10/15/2012	3 - 5'	1220280-VN72G	83		0.2 U	**5.9**	0.2 U	**0.7**	**31.4**	**160**	**106**
ICS-LP2-SO-B-101512	soil	10/15/2012	5.5 - 7.5'	1220275-VN72B	73	7.45	0.3 U	**4.8**	0.3 U	0.1 U	**17.4**	**23.1**	**4.3**
ICS-LP2-SO-C-101512	soil	10/15/2012	8 - 10'	1220281-VN72H	72		0.3 U	**3.4**	0.3 U	0.1 U	**12.6**	**23.2**	**3.4**
ICS-LP2-SO-D-101512	soil	10/15/2012	15 - 16'	1220288-VN72O									
ICS-LP3-SO-A-101512	soil	10/15/2012	3 - 5'	1220282-VN72I	94		0.2 U	**2.7**	0.2 U	**0.4**	**41.0**	**24.6**	**110**
ICS-LP3-SO-B-101512	soil	10/15/2012	6 - 8'	1220276-VN72C	82	6.85	**0.8 J_R**	**6.7**	0.2 U	**5.8**	**910**	**450**	**3600**
ICS-LP3-SO-C-101512	soil	10/15/2012	10 - 12'	1220283-VN72J	75		0.3 U	**3.4**	0.3 U	0.1 U	**21.1**	**24.1**	**4.2**
ICS-LP3-SO-D-101512	soil	10/15/2012	15 - 16'	1220289-VN72P									
ICS-LP4-SO-A-101512	soil	10/15/2012	8 - 10'	1220284-VN72K	81		0.2 U	**5.2**	**0.3**	**0.7**	**66.3**	**38.7**	**748**
ICS-LP4-SO-B-101512	soil	10/15/2012	10 - 12'	1220277-VN72D	67	8.34	0.3 U	**10.1**	**0.4**	**0.8**	**37.4**	**41.7**	**118**
ICS-LP4-SO-C-101512	soil	10/15/2012	14 - 15'	1220285-VN72L	77		0.2 U	**1.3**	0.2 U	0.1 U	**10.2**	**9.6**	**1.6**
ICS-LP4-SO-D-101512	soil	10/15/2012	17 - 18'	1220290-VN72Q									
ICS-LP4-NAPL-101512	NAPL	10/15/2012	4 - 5'	1220286-VN72M									
ICS-DOF-MW1-A-101512	soil	10/15/2012	4 - 5'	1220271-VN71A	92		0.2 U	**3.0**	0.2 U	0.1 U	**15.8**	**14.0**	**11.0**
ICS-DOF-MW1-B-101512	soil	10/15/2012	6.5 - 7.5'	1220272-VN71B	72		0.3 U	**3.2**	0.3 U	0.1 U	**15.0**	**22.1**	**3.0**
ICS-DOF-MW1-C-101512	soil	10/15/2012	11 - 12'	1220273-VN71C	71		0.3 U	**2.0**	0.3 U	**0.1**	**13.6**	**17.3**	**2.0**
ICS-DOF-MW2-A-101612	soil	10/16/2012	2 - 3'	1220473-VO10G	97		0.2 U	**2.0**	0.2 U	0.1 U	**10.0**	**9.6**	**1.8**
ICS-DOF-MW2-B-101612	soil	10/16/2012	8 - 9'	1220474-VO10H	85		0.2 U	**2.5**	0.2 U	0.1 U	**12.9**	**14.9**	**2.9**
ICS-DOF-MW2-C-101612	soil	10/16/2012	12 - 13'	1220475-VO10I	71		0.3 U	**4.7**	**0.4**	0.1 U	**19.6**	**26.5**	**4.7**
ICS-DOF-MW2-D-101612	soil	10/16/2012	16 - 17'	1220483-VO10Q									
ICS-DOF-MW3-A-101612	soil	10/16/2012	2 - 4'	1220476-VO10J	93		0.2 U	**2.4**	0.2 U	0.1 U	**10.5**	**10.4**	**3.4**
ICS-DOF-DUP1-101612	soil	10/16/2012	dup of MW3-A	1220507-VO11F	93		0.2 U	**2.7**	0.2 U	0.1 U	**10.9**	**10.2**	**4.1**
ICS-DOF-MW3-B-101612	soil	10/16/2012	7 - 8'	1220477-VO10K	85		0.2 U	**2.1**	0.2 U	0.1 U	**11.2**	**11.7**	**2.8**
ICS-DOF-MW3-C-101612	soil	10/16/2012	12 - 13'	1220484-VO10R									
ICS-DOF-MW3-D-101612	soil	10/16/2012	17 - 18'	1220485-VO10S									
ICS-DOF-MW4-A-101712	soil	10/17/2012	3 - 4'	1220478-VO10L	89		0.2 U	**2.4**	0.2 U	0.1 U	**10.5**	**10.8**	**2.1**
ICS-DOF-MW4-B-101712	soil	10/17/2012	7 - 8'	1220479-VO10M	75		0.2 U	**2.8**	**0.3**	**0.1**	**12.0**	**17.7**	**3.9**
ICS-DOF-MW4-C-101712	soil	10/17/2012	10 - 11'	1220480-VO10N	78		0.2 U	**2.0**	0.2 U	**0.1**	**12.8**	**22.7**	**6.3**
ICS-DOF-MW4-D-101712	soil	10/17/2012	16 - 17'	1220486-VO10T									
ICS-DOF-MW5-A-101712	soil	10/17/2012	3 - 4'	1220502-VO11A	91		0.2 U	**2.2**	0.2 U	0.1 U	**9.6**	**12.9**	**2.3**
ICS-DOF-MW5-B-101712	soil	10/17/2012	7 - 8'	1220503-VO11B	77		0.2 U	**2.0**	0.2 U	0.1 U	**10.0**	**11.2**	**1.9**
ICS-DOF-MW5-C-101712	soil	10/17/2012	12 - 13'	1220510-VO11I									
ICS-DOF-MW5-D-101712	soil	10/17/2012	17 - 18'	1220511-VO11J									

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	pH	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3	Copper 7440-50-8	Lead 7439-92-1
					%	SU	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-DOF-MW6-A-101712	soil	10/17/2012	3 - 5'	1220504-VO11C	79		0.2 U	**3.0**	0.2 U	0.1 U	**11.8**	**13.9**	**2.6**
ICS-DOF-MW6-B-101712	soil	10/17/2012	6 - 8'	1220505-VO11D	78		0.3 U	**2.6**	0.3 U	0.1 U	**11.6**	**13.0**	**2.3**
ICS-DOF-DUP2-101712	soil	10/17/2012	dup of MW6-B	1220508-VO11G	78		0.3 U	**3.0**	0.3 U	0.1 U	**12.8**	**14.9**	**2.5**
ICS-DOF-MW6-C-101712	soil	10/17/2012	9 - 10'	1220506-VO11E	62		0.3 U	**8.0**	**0.3**	0.1 U	**17.3**	**28.0**	**4.2**
ICS-DOF-MW6-D-101712	soil	10/17/2012	12 - 13'	1220512-VO11K									
ICS-DOF-MW7-A-101612	soil	10/16/2012	3 - 4'	1220470-VO10D	77		0.3 U	**3.5**	0.3 U	0.1 U	**13.0**	**18.2**	**8.4**
ICS-DOF-MW7-B-101612	soil	10/16/2012	7 - 8'	1220471-VO10E	72		0.3 U	**3.2**	0.3 U	0.1 U	**14.7**	**21.6**	**3.0**
ICS-DOF-MW7-C-101612	soil	10/16/2012	11 - 12'	1220472-VO10F	70		0.3 U	**2.6**	0.3 U	0.1 U	**13.1**	**20.8**	**2.4**
ICS-DOF-MW7-D-101612	soil	10/16/2012	16 - 17'	1220482-VO10P									
ICS-DOF-MW8-A-101612	soil	10/16/2012	3 - 4'	1220467-VO10A	95		0.2 U	**1.7**	0.2 U	0.1 U	**8.4**	**10.2**	**1.5**
ICS-DOF-MW8-B-101612	soil	10/16/2012	7 - 8'	1220468-VO10B	73		0.3 U	**2.5**	0.3 U	0.1 U	**14.4**	**20.9**	**3.0**
ICS-DOF-MW8-C-101612	soil	10/16/2012	11 - 12'	1220469-VO10C	74		0.3 U	**3.2**	0.3 U	0.1 U	**12.9**	**18.3**	**2.4**
ICS-DOF-MW8-D-101612	soil	10/16/2012	15 - 16'	1220481-VO10O									
Trip Blank *(µg/L)*	water	10/17/2012	VOC's trip blank	1220509-VO11H	-								

J_R = estimate; due to low matrix spike recovery. Value likely biased low.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Mercury 7439-97-6 mg/kg, dry	Nickel 7440-02-0 mg/kg, dry	Silver 7440-22-4 mg/kg, dry	Zinc 7440-66-6 mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons			Chloro-methane 74-87-3 µg/kg, dry	Bromo-methane 74-83-9 µg/kg, dry	Vinyl chloride 75-01-4 µg/kg, dry	Chloro-ethane 75-00-3 µg/kg, dry	Methylene chloride 75-09-2 µg/kg, dry	Acetone 67-64-1 µg/kg, dry
						Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	Lube-range mg/kg, dry						
ICS-LP1-SO-A-101512	**0.14**	**36.7**	0.2 U	**90**			23	**70**						
ICS-LP1-SO-B-101512	**3.12**	**31.5**	**0.8**	**349**			**820**	**1700**	1.7 U	1.7 U	1.7 U	1.7 U	**3.8**	**680**
ICS-LP1-SO-C-101512	0.3 U	**10.0**	0.3 U	**30**			8.2	18						
ICS-LP1-SO-D-101512														
ICS-LP2-SO-A-101512	**0.18**	**52.7**	0.2 U	**238**			7.2	**31**						
ICS-LP2-SO-B-101512	**0.06**	**13.3**	0.3 U	**95**			6.8 U	14 U	1.2 U	1.2 U	1.2 U	1.2 U	2.3 U	**99**
ICS-LP2-SO-C-101512	**0.03**	**9.0**	0.3 U	**85**			6.9 U	14 U						
ICS-LP2-SO-D-101512														
ICS-LP3-SO-A-101512	**0.37**	**21.6**	0.2 U	**165**			32	**100**						
ICS-LP3-SO-B-101512	**8.7**	**54.5**	**0.4**	**2120**		*incl lt HC solvent*	**6200**	**11,000**	2500 U	2500 U	2500 U	2500 U	5100 U	**9900 J**
ICS-LP3-SO-C-101512	**0.13**	**9.5**	0.3 U	**33**		*incl lt HC solvent*	**120**	**170**						
ICS-LP3-SO-D-101512														
ICS-LP4-SO-A-101512	**0.74**	**22.2**	0.2 U	**196**			**620**	**1300**						
ICS-LP4-SO-B-101512	**2.06**	**20.9**	**0.4**	**116**			760	**440**	110 U	110 U	110 U	110 U	**86 J**	**430 J**
ICS-LP4-SO-C-101512	0.03 U	**7.7**	0.2 U	**22**			10	18						
ICS-LP4-SO-D-101512														
ICS-LP4-NAPL-101512					**270**	**> 2000**	**> 5000**	**> 10,000**						
ICS-DOF-MW1-A-101512	**0.04**	**10.3**	0.2 U	**55**		6.3 U	8.1	16	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.9 U
ICS-DOF-MW1-B-101512	**0.05**	**10.7**	0.3 U	**33**		9.2 U	6.8 U	14 U	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	**160**
ICS-DOF-MW1-C-101512	**0.03**	**11.8**	0.3 U	**31**		9.3 U	7.1 U	14 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U	**65**
ICS-DOF-MW2-A-101612	0.02 U	**9.0**	0.2 U	**25**		5.7 U	5.0 U	10 U	0.9 U	0.9 U	0.9 U	0.9 U	1.9 U	4.7 U
ICS-DOF-MW2-B-101612	**0.23**	**9.8**	0.2 U	**28**		6.8 U	5.2 U	10 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	**48 J_Q**
ICS-DOF-MW2-C-101612	**0.04**	**16.3**	0.3 U	**37**		8.8 U	6.7 U	13 U	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	**100 J_Q**
ICS-DOF-MW2-D-101612														
ICS-DOF-MW3-A-101612	0.03 U	**9.1**	0.2 U	**26**		5.7 U	5.3 U	11 U	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	5.3 U
ICS-DOF-DUP1-101612	0.02 U	**9.0**	0.2 U	**27**		6.3 U	6.2	11 U	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	5.3 U
ICS-DOF-MW3-B-101612	0.02 U	**11.7**	0.2 U	**29**		7.0 U	**22**	**17**	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	5.6 U
ICS-DOF-MW3-C-101612														
ICS-DOF-MW3-D-101612														
ICS-DOF-MW4-A-101712	0.02 U	**9.5**	0.2 U	**27**		6.7 U	8.4	11 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	**21 J_Q**
ICS-DOF-MW4-B-101712	0.03 U	**11.0**	0.2 U	**29**		8.2 U	**15**	**18**	1.3 U	1.3 U	1.3 U	1.3 U	**3.1**	**150**
ICS-DOF-MW4-C-101712	**0.04**	**10.7**	0.2 U	**34**		8.1 U	**17**	**27**	1.1 U	1.1 U	1.1 U	1.1 U	**1.6 J_B**	**42**
ICS-DOF-MW4-D-101712														
ICS-DOF-MW5-A-101712	0.02 U	**10.1**	0.2 U	**28**		6.4 U	**23**	**22**	0.9 U	0.9 U	0.9 U	0.9 U	1.9 U	4.7 U
ICS-DOF-MW5-B-101712	0.02 U	**9.0**	0.2 U	**26**		7.7 U	**22**	**25**	1.1 U	1.1 U	1.1 U	1.1 U	**1.1 J**	**59 J_Q**
ICS-DOF-MW5-C-101712														
ICS-DOF-MW5-D-101712														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Mercury 7439-97-6 mg/kg, dry	Nickel 7440-02-0 mg/kg, dry	Silver 7440-22-4 mg/kg, dry	Zinc 7440-66-6 mg/kg, dry	TOX mg/kg	Total Petroleum Hydrocarbons			Chloro-methane 74-87-3 µg/kg, dry	Bromo-methane 74-83-9 µg/kg, dry	Vinyl chloride 75-01-4 µg/kg, dry	Chloro-ethane 75-00-3 µg/kg, dry	Methylene chloride 75-09-2 µg/kg, dry	Acetone 67-64-1 µg/kg, dry
						Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	Lube-range mg/kg, dry						
ICS-DOF-MW6-A-101712	**0.04**	**9.6**	0.2 U	**25**		**3000**	**19,000**	1200 U	280 U	280 U	280 U	280 U	550 U	1400 U
ICS-DOF-MW6-B-101712	0.02 U	**8.8**	0.3 U	**25**		**2300**	**12,000**	1200 U	270 U	270 U	270 U	270 U	550 U	1400 U
ICS-DOF-DUP2-101712	**0.02**	**9.5**	0.3 U	**25**		**2500**	**9000**	1300 U	270 U	270 U	270 U	270 U	540 U	1400 U
ICS-DOF-MW6-C-101712	0.04 U	**14.6**	0.3 U	**36**		10 U	**34**	40	1.6 U	1.6 U	1.6 U	1.6 U	**3.3**	**220 J_Q**
ICS-DOF-MW6-D-101712														
ICS-DOF-MW7-A-101612	**0.03**	**10.3**	0.3 U	**34**		**54**	**970**	**820**	91 U	91 U	91 U	91 U	180 U	460 U
ICS-DOF-MW7-B-101612	**0.03**	**10.1**	0.3 U	**31**		8.9 U	6.6 U	13 U	1.2 U	1.2 U	1.2 U	**6.0**	**1.0 J**	**74 J_Q**
ICS-DOF-MW7-C-101612	0.03 U	**10.5**	0.3 U	**32**		7.8 U	6.5 U	13 U	1.3 U	1.3 U	1.3 U	**1.4**	2.6 U	**58 J_Q**
ICS-DOF-MW7-D-101612														
ICS-DOF-MW8-A-101612	0.02 U	**7.3**	0.2 U	**36**		8.2	5.2	10 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.7 J**	**400 J_Q**
ICS-DOF-MW8-B-101612	**0.03**	**10.5**	0.3 U	**32**		8.6 U	6.5 U	13 U	1.3 U	1.3 U	1.3 U	**1.9**	**3.1**	**110 J_Q**
ICS-DOF-MW8-C-101612	0.03 U	**10.5**	0.3 U	**28**		7.8 U	6.5 U	13 U	1.2 U	1.2 U	1.2 U	**1.4**	2.3 U	**66 J_Q**
ICS-DOF-MW8-D-101612														
Trip Blank *(µg/L)*						0.25 U *(mg/L)*			1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	**3.3 J**

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Carbon disulfide 75-15-0 µg/kg, dry	1,1-Dichloro-ethene 75-35-4 µg/kg, dry	1,1-Dichloro-ethane 75-34-3 µg/kg, dry	*trans*-1,2-Dichloroethene 156-60-5 µg/kg, dry	*cis*-1,2-Dichloroethene 156-59-2 µg/kg, dry	Chloroform 67-66-3 µg/kg, dry	1,2-Dichloro-ethane 107-06-2 µg/kg, dry	2-Butanone 78-93-3 µg/kg, dry	1,1,1-Tri-chloroethane 71-55-6 µg/kg, dry	Carbon tetrachloride 56-23-5 µg/kg, dry	Bromo-dichloromethane 75-27-4 µg/kg, dry	1,2-Dichloro-propane 78-87-5 µg/kg, dry	*cis*-1,3-Dichloro-propene 10061-01-5 µg/kg, dry
ICS-LP1-SO-A-101512													
ICS-LP1-SO-B-101512	**20**	1.7 U	**3.1**	1.7 U	1.7 U	1.7 U	1.7 U	**140**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-LP1-SO-C-101512													
ICS-LP1-SO-D-101512													
ICS-LP2-SO-A-101512													
ICS-LP2-SO-B-101512	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**20 J_Q**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-LP2-SO-C-101512													
ICS-LP2-SO-D-101512													
ICS-LP3-SO-A-101512													
ICS-LP3-SO-B-101512	2500 U	2500 U	2500 U	2500 U	**2400 J**	2500 U	2500 U	13,000 U	2500 U	2500 U	2500 U	2500 U	2500 U
ICS-LP3-SO-C-101512													
ICS-LP3-SO-D-101512													
ICS-LP4-SO-A-101512													
ICS-LP4-SO-B-101512	**130**	110 U	110 U	110 U	110 U	110 U	110 U	550 U	110 U	110 U	110 U	110 U	110 U
ICS-LP4-SO-C-101512													
ICS-LP4-SO-D-101512													
ICS-LP4-NAPL-101512													
ICS-DOF-MW1-A-101512	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B-101512	**1.9**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**30 J_Q**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW1-C-101512	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**14**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A-101612	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B-101612	**5.4**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	**8.5**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW2-C-101612	**1.0 J**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**29**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-D-101612													
ICS-DOF-MW3-A-101612	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1-101612	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B-101612	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	**1.4**	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-C-101612													
ICS-DOF-MW3-D-101612													
ICS-DOF-MW4-A-101712	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.3 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B-101712	**3.1 J_Q**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**23 J_Q**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW4-C-101712	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	**11**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW4-D-101712													
ICS-DOF-MW5-A-101712	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B-101712	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	**10**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-C-101712													
ICS-DOF-MW5-D-101712													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Carbon disulfide 75-15-0 µg/kg, dry	1,1-Dichloro-ethene 75-35-4 µg/kg, dry	1,1-Dichloro-ethane 75-34-3 µg/kg, dry	*trans*-1,2-Dichloroethene 156-60-5 µg/kg, dry	*cis*-1,2-Dichloroethene 156-59-2 µg/kg, dry	Chloroform 67-66-3 µg/kg, dry	1,2-Dichloro-ethane 107-06-2 µg/kg, dry	2-Butanone 78-93-3 µg/kg, dry	1,1,1-Tri-chloroethane 71-55-6 µg/kg, dry	Carbon tetrachloride 56-23-5 µg/kg, dry	Bromo-dichloromethane 75-27-4 µg/kg, dry	1,2-Dichloro-propane 78-87-5 µg/kg, dry	*cis*-1,3-Dichloro-propene 10061-01-5 µg/kg, dry
ICS-DOF-MW6-A-101712	280 U	280 U	280 U	280 U	280 U	280 U	280 U	1400 U	280 U	280 U	280 U	280 U	280 U
ICS-DOF-MW6-B-101712	270 U	270 U	270 U	270 U	270 U	270 U	270 U	1400 U	270 U	270 U	270 U	270 U	270 U
ICS-DOF-DUP2-101712	270 U	270 U	270 U	270 U	270 U	270 U	270 U	1400 U	270 U	270 U	270 U	270 U	270 U
ICS-DOF-MW6-C-101712	**4.9**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**48**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-DOF-MW6-D-101712													
ICS-DOF-MW7-A-101612	91 U	91 U	91 U	91 U	**130**	91 U	91 U	460 U	91 U	91 U	91 U	91 U	91 U
ICS-DOF-MW7-B-101612	1.2 U	1.2 U	**2.0**	**1.1 J**	1.2 U	1.2 U	1.2 U	**18**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW7-C-101612	**1.7**	1.3 U	1.3 U	1.3 U	**4.3**	1.3 U	1.3 U	**16**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW7-D-101612													
ICS-DOF-MW8-A-101612	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**39**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW8-B-101612	**4.1**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**21**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW8-C-101612	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**19**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW8-D-101612													
Trip Blank *(µg/L)*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Trichloro-ethene 79-01-6 µg/kg, dry	Dibromo-chloromethane 124-48-1 µg/kg, dry	1,1,2-Trichloro-ethane 79-00-5 µg/kg, dry	Benzene 71-43-2 µg/kg, dry	*trans*-1,3-Dichloropropene 10061-02-6 µg/kg, dry	Bromo-form 75-25-2 µg/kg, dry	4-Methyl-2-pentanone 108-10-1 µg/kg, dry	2-Hexanone 591-78-6 µg/kg, dry	Tetrachloro-ethene 127-18-4 µg/kg, dry	1,1,2,2-Tetra-chloroethane 79-34-5 µg/kg, dry	Toluene 108-88-3 µg/kg, dry	Chloro-benzene 108-90-7 µg/kg, dry	Ethyl-benzene 100-41-4 µg/kg, dry	Styrene 100-42-5 µg/kg, dry
ICS-LP1-SO-A-101512														
ICS-LP1-SO-B-101512	1.7 U	1.7 U	1.7 U	**1.1 J**	1.7 U	1.7 U	8.5 U	8.5 U	1.7 U	1.7 U	**4.0**	1.7 U	**1.1 J**	1.7 U
ICS-LP1-SO-C-101512														
ICS-LP1-SO-D-101512														
ICS-LP2-SO-A-101512														
ICS-LP2-SO-B-101512	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.8 U	5.8 U	1.2 U	1.2 U	**16**	1.2 U	**8.3**	1.2 U
ICS-LP2-SO-C-101512														
ICS-LP2-SO-D-101512														
ICS-LP3-SO-A-101512														
ICS-LP3-SO-B-101512	**2000 J**	2500 U	2500 U	**1600 J**	2500 U	2500 U	13,000 U	13,000 U	2500 U	2500 U	**120,000**	2500 U	**130,000**	2500 U
ICS-LP3-SO-C-101512														
ICS-LP3-SO-D-101512														
ICS-LP4-SO-A-101512														
ICS-LP4-SO-B-101512	**200**	110 U	110 U	**78 J**	110 U	110 U	550 U	550 U	110 U	110 U	**810**	110 U	**1800**	**100 J**
ICS-LP4-SO-C-101512														
ICS-LP4-SO-D-101512														
ICS-LP4-NAPL-101512														
ICS-DOF-MW1-A-101512	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.9 U	4.9 U	**0.6 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B-101512	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.2 U	6.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW1-C-101512	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.3 U	6.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A-101612	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B-101612	**4.2**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.5 U	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW2-C-101612	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.5 U	6.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-D-101612														
ICS-DOF-MW3-A-101612	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	5.3 U	**0.6 J**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1-101612	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.3 U	5.3 U	**0.8 J**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B-101612	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	5.6 U	**1.9**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-C-101612														
ICS-DOF-MW3-D-101612														
ICS-DOF-MW4-A-101712	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B-101712	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U	6.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW4-C-101712	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	5.6 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW4-D-101712														
ICS-DOF-MW5-A-101712	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	4.7 U	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B-101712	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.5 U	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-C-101712														
ICS-DOF-MW5-D-101712														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Trichloro-ethene 79-01-6 µg/kg, dry	Dibromo-chloromethane 124-48-1 µg/kg, dry	1,1,2-Trichloro-ethane 79-00-5 µg/kg, dry	Benzene 71-43-2 µg/kg, dry	*trans*-1,3-Dichloropropene 10061-02-6 µg/kg, dry	Bromo-form 75-25-2 µg/kg, dry	4-Methyl-2-pentanone 108-10-1 µg/kg, dry	2-Hexanone 591-78-6 µg/kg, dry	Tetrachloro-ethene 127-18-4 µg/kg, dry	1,1,2,2-Tetra-chloroethane 79-34-5 µg/kg, dry	Toluene 108-88-3 µg/kg, dry	Chloro-benzene 108-90-7 µg/kg, dry	Ethyl-benzene 100-41-4 µg/kg, dry	Styrene 100-42-5 µg/kg, dry
ICS-DOF-MW6-A-101712	280 U	280 U	280 U	280 U	280 U	280 U	1400 U	1400 U	280 U	280 U	**2500**	280 U	**3300**	280 U
ICS-DOF-MW6-B-101712	270 U	270 U	270 U	270 U	270 U	270 U	1400 U	1400 U	270 U	270 U	**1700**	270 U	**2300**	270 U
ICS-DOF-DUP2-101712	270 U	270 U	270 U	270 U	270 U	270 U	1400 U	1400 U	270 U	270 U	**550**	270 U	**640**	270 U
ICS-DOF-MW6-C-101712	1.6 U	1.6 U	1.6 U	**3.2**	1.6 U	1.6 U	8.0 U	8.0 U	1.6 U	1.6 U	**4.2**	1.6 U	**4.1**	1.6 U
ICS-DOF-MW6-D-101712														
ICS-DOF-MW7-A-101612	**120**	91 U	91 U	91 U	91 U	91 U	460 U	460 U	91 U	91 U	**1300**	91 U	**1500**	91 U
ICS-DOF-MW7-B-101612	1.2 U	1.2 U	1.2 U	**2.1**	1.2 U	1.2 U	6.1 U	6.1 U	1.2 U	1.2 U	**1.4**	1.2 U	**5.3**	1.2 U
ICS-DOF-MW7-C-101612	1.3 U	1.3 U	1.3 U	**0.8 J**	1.3 U	1.3 U	6.6 U	6.6 U	1.3 U	1.3 U	**6.6**	1.3 U	**6.7**	1.3 U
ICS-DOF-MW7-D-101612														
ICS-DOF-MW8-A-101612	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.0 J**	**9.8**	1.0 U	1.0 U	**3.8**	1.0 U	**10**	1.0 U
ICS-DOF-MW8-B-101612	1.3 U	1.3 U	1.3 U	**15**	1.3 U	1.3 U	6.7 U	6.7 U	1.3 U	1.3 U	**1.8**	**3.1**	**22**	1.3 U
ICS-DOF-MW8-C-101612	1.2 U	1.2 U	1.2 U	**29**	1.2 U	1.2 U	5.8 U	5.8 U	1.2 U	1.2 U	**1.2**	**2.5**	**0.9 J**	1.2 U
ICS-DOF-MW8-D-101612														
Trip Blank *(µg/L)*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Trichloro-fluoromethane 75-69-4 µg/kg, dry	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/kg, dry	*m* - & *p* - Xylenes 179601-23-1 µg/kg, dry	*o* -Xylene 95-47-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Acrolein 107-02-8 µg/kg, dry	Bromoethane 74-96-4 µg/kg, dry	1,1-Dichloro-propene 563-58-6 µg/kg, dry	Dibromo-methane 74-95-3 µg/kg, dry	1,1,1,2-Tetra-chloroethane 630-20-6 µg/kg, dry	1,2,3-Trichloro-propane 96-18-4 µg/kg, dry
ICS-LP1-SO-A-101512													
ICS-LP1-SO-B-101512	1.7 U	3.4 U	**1.9**	**1.2 J**	1.7 U	1.7 U	*see SVOC's*	85 U	3.4 U	1.7 U	1.7 U	1.7 U	3.4 U
ICS-LP1-SO-C-101512													
ICS-LP1-SO-D-101512													
ICS-LP2-SO-A-101512													
ICS-LP2-SO-B-101512	1.2 U	2.3 U	**7.1**	**1.4**	1.2 U	1.2 U	1.2 U	58 U	2.3 U	1.2 U	1.2 U	1.2 U	2.3 U
ICS-LP2-SO-C-101512													
ICS-LP2-SO-D-101512													
ICS-LP3-SO-A-101512													
ICS-LP3-SO-B-101512	2500 U	5100 U	**120,000**	**34,000**	*see SVOC's*	*see SVOC's*	*see SVOC's*	130,000 U	5100 U	2500 U	2500 U	2500 U	5100 U
ICS-LP3-SO-C-101512													
ICS-LP3-SO-D-101512													
ICS-LP4-SO-A-101512													
ICS-LP4-SO-B-101512	110 U	220 U	**2900**	**550**	**150**	*see SVOC's*	**200**	5500 U	220 U	110 U	110 U	110 U	220 U
ICS-LP4-SO-C-101512													
ICS-LP4-SO-D-101512													
ICS-LP4-NAPL-101512													
ICS-DOF-MW1-A-101512	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	49 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U
ICS-DOF-MW1-B-101512	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	62 U	2.5 U	1.2 U	1.2 U	1.2 U	2.5 U
ICS-DOF-MW1-C-101512	1.3 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	63 U	2.5 U	1.3 U	1.3 U	1.3 U	2.5 U
ICS-DOF-MW2-A-101612	0.9 U	1.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	47 U	1.9 U	0.9 U	0.9 U	0.9 U	1.9 U
ICS-DOF-MW2-B-101612	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	55 U	2.2 U	1.1 U	1.1 U	1.1 U	2.2 U
ICS-DOF-MW2-C-101612	1.3 U	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	65 U	2.6 U	1.3 U	1.3 U	1.3 U	2.6 U
ICS-DOF-MW2-D-101612													
ICS-DOF-MW3-A-101612	1.1 U	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	53 U	2.1 U	1.1 U	1.1 U	1.1 U	2.1 U
ICS-DOF-DUP1-101612	1.1 U	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	53 U	2.1 U	1.1 U	1.1 U	1.1 U	2.1 U
ICS-DOF-MW3-B-101612	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	56 U	2.2 U	1.1 U	1.1 U	1.1 U	2.2 U
ICS-DOF-MW3-C-101612													
ICS-DOF-MW3-D-101612													
ICS-DOF-MW4-A-101712	1.0 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	52 U	2.1 U	1.0 U	1.0 U	1.0 U	2.1 U
ICS-DOF-MW4-B-101712	1.3 U	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	66 U	2.6 U	1.3 U	1.3 U	1.3 U	2.6 U
ICS-DOF-MW4-C-101712	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	56 U	2.2 U	1.1 U	1.1 U	1.1 U	2.2 U
ICS-DOF-MW4-D-101712													
ICS-DOF-MW5-A-101712	0.9 U	1.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	47 U	1.9 U	0.9 U	0.9 U	0.9 U	1.9 U
ICS-DOF-MW5-B-101712	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	55 U	2.2 U	1.1 U	1.1 U	1.1 U	2.2 U
ICS-DOF-MW5-C-101712													
ICS-DOF-MW5-D-101712													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Trichloro-fluoromethane 75-69-4 µg/kg, dry	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/kg, dry	*m* - & *p* - Xylenes 179601-23-1 µg/kg, dry	*o* -Xylene 95-47-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Acrolein 107-02-8 µg/kg, dry	Bromoethane 74-96-4 µg/kg, dry	1,1-Dichloro-propene 563-58-6 µg/kg, dry	Dibromo-methane 74-95-3 µg/kg, dry	1,1,1,2-Tetra-chloroethane 630-20-6 µg/kg, dry	1,2,3-Trichloro-propane 96-18-4 µg/kg, dry
ICS-DOF-MW6-A-101712	280 U	550 U	**7700**	**2500**	**660**	**770**	**2100**	14,000 U	550 U	280 U	280 U	280 U	550 U
ICS-DOF-MW6-B-101712	270 U	550 U	**5200**	**1700**	**490**	**640**	**1800**	14,000 U	550 U	270 U	270 U	270 U	550 U
ICS-DOF-DUP2-101712	270 U	540 U	**1500**	**500**	**200 J**	**320**	**870**	14,000 U	540 U	270 U	270 U	270 U	540 U
ICS-DOF-MW6-C-101712	1.6 U	3.2 U	**2.7**	**2.3**	*see SVOC's*	*see SVOC's*	*see SVOC's*	80 U	3.2 U	1.6 U	1.6 U	1.6 U	3.2 U
ICS-DOF-MW6-D-101712													
ICS-DOF-MW7-A-101612	91 U	180 U	**2400**	**940**	*see SVOC's*	*see SVOC's*	*see SVOC's*	4600 U	180 U	91 U	91 U	91 U	180 U
ICS-DOF-MW7-B-101612	1.2 U	2.4 U	**3.4**	**1.4**	*see SVOC's*	*see SVOC's*	*see SVOC's*	61 U	2.4 U	1.2 U	1.2 U	1.2 U	2.4 U
ICS-DOF-MW7-C-101612	1.3 U	2.6 U	**25**	**4.4**	1.3 U	1.3 U	1.3 U	66 U	2.6 U	1.3 U	1.3 U	1.3 U	2.6 U
ICS-DOF-MW7-D-101612													
ICS-DOF-MW8-A-101612	1.0 U	2.1 U	**17**	**5.0**	1.0 U	1.0 U	1.0 U	51 U	2.1 U	1.0 U	1.0 U	1.0 U	2.1 U
ICS-DOF-MW8-B-101612	1.3 U	2.7 U	**160**	1.3 U	**1.5**	1.3 U	1.3 U	67 U	2.7 U	1.3 U	1.3 U	1.3 U	2.7 U
ICS-DOF-MW8-C-101612	1.2 U	2.3 U	**28**	**1.0 J**	1.2 U	1.2 U	1.2 U	58 U	2.3 U	1.2 U	1.2 U	1.2 U	2.3 U
ICS-DOF-MW8-D-101612													
Trip Blank *(µg/L)*	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/kg, dry	1,3,5-Trimethyl-benzene 108-67-8 µg/kg, dry	1,2,4-Trimethyl-benzene 95-63-6 µg/kg, dry	Ethylene dibromide 106-93-4 µg/kg, dry	Bromochloro-methane 74-97-5 µg/kg, dry	2,2-Dichloro-propane 294-20-7 µg/kg, dry	1,3-Dichloro-propane 142-28-9 µg/kg, dry	Isopropyl-benzene 98-82-8 µg/kg, dry	n-Propyl-benzene 103-65-1 µg/kg, dry	Bromo-benzene 108-86-1 µg/kg, dry	2-Chloro-toluene 95-49-8 µg/kg, dry	4-Chloro-toluene 106-43-4 µg/kg, dry
ICS-LP1-SO-A-101512												
ICS-LP1-SO-B-101512	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**1.7 J**	1.7 U
ICS-LP1-SO-C-101512												
ICS-LP1-SO-D-101512												
ICS-LP2-SO-A-101512												
ICS-LP2-SO-B-101512	5.8 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-LP2-SO-C-101512												
ICS-LP2-SO-D-101512												
ICS-LP3-SO-A-101512												
ICS-LP3-SO-B-101512	13,000 U	**7500**	**24,000**	2500 U	2500 U	2500 U	2500 U	**2000 J**	**4100**	2500 U	2500 U	2500 U
ICS-LP3-SO-C-101512												
ICS-LP3-SO-D-101512												
ICS-LP4-SO-A-101512												
ICS-LP4-SO-B-101512	550 U	**330**	**1500**	110 U	110 U	110 U	110 U	**110**	**310**	110 U	110 U	110 U
ICS-LP4-SO-C-101512												
ICS-LP4-SO-D-101512												
ICS-LP4-NAPL-101512												
ICS-DOF-MW1-A-101512	4.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW1-B-101512	62 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW1-C-101512	63 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-A-101612	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW2-B-101612	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW2-C-101612	6.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW2-D-101612												
ICS-DOF-MW3-A-101612	5.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-DUP1-101612	5.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-B-101612	5.6 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW3-C-101612												
ICS-DOF-MW3-D-101612												
ICS-DOF-MW4-A-101712	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW4-B-101712	6.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW4-C-101712	5.6 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW4-D-101712												
ICS-DOF-MW5-A-101712	4.7 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-DOF-MW5-B-101712	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-DOF-MW5-C-101712												
ICS-DOF-MW5-D-101712												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/kg, dry	1,3,5-Trimethyl-benzene 108-67-8 µg/kg, dry	1,2,4-Trimethyl-benzene 95-63-6 µg/kg, dry	Ethylene dibromide 106-93-4 µg/kg, dry	Bromochloro-methane 74-97-5 µg/kg, dry	2,2-Dichloro-propane 294-20-7 µg/kg, dry	1,3-Dichloro-propane 142-28-9 µg/kg, dry	Isopropyl-benzene 98-82-8 µg/kg, dry	n-Propyl-benzene 103-65-1 µg/kg, dry	Bromo-benzene 108-86-1 µg/kg, dry	2-Chloro-toluene 95-49-8 µg/kg, dry	4-Chloro-toluene 106-43-4 µg/kg, dry
ICS-DOF-MW6-A-101712	1400 U	**4600**	**13,000**	280 U	280 U	280 U	280 U	**1300**	**2400**	280 U	280 U	280 U
ICS-DOF-MW6-B-101712	1400 U	**3100**	**8600**	270 U	270 U	270 U	270 U	**920**	**1600**	270 U	270 U	270 U
ICS-DOF-DUP2-101712	1400 U	**1000**	**2800**	270 U	270 U	270 U	270 U	**280**	**510**	270 U	270 U	270 U
ICS-DOF-MW6-C-101712	8.0 U	1.6 U	**1.2 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-DOF-MW6-D-101712												
ICS-DOF-MW7-A-101612	460 U	**130**	**380**	91 U	91 U	91 U	91 U	91 U	91 U	91 U	91 U	91 U
ICS-DOF-MW7-B-101612	6.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW7-C-101612	6.6 U	**1.5**	**2.3**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-DOF-MW7-D-101612												
ICS-DOF-MW8-A-101612	5.1 U	**1.7**	**4.3**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-DOF-MW8-B-101612	6.7 U	**4.7**	**17**	1.3 U	1.3 U	1.3 U	1.3 U	**4.4**	**2.1**	1.3 U	1.3 U	1.3 U
ICS-DOF-MW8-C-101612	5.8 U	1.2 U	**0.6 J**	1.2 U	1.2 U	1.2 U	1.2 U	**2.4**	1.2 U	1.2 U	1.2 U	1.2 U
ICS-DOF-MW8-D-101612												
Trip Blank *(µg/L)*	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	*tert*-Butyl-benzene 98-06-6 µg/kg, dry	*sec*-Butyl-benzene 135-98-8 µg/kg, dry	4-Isopropyl-toluene 99-87-6 µg/kg, dry	n-Butyl-benzene 104-51-8 µg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry
ICS-LP1-SO-A-101512					18 U	18 U	4.4 U	4.4 U	18 U	4.4 U	4.4 U	35 U
ICS-LP1-SO-B-101512	1.7 U	1.7 U	1.7 U	1.7 U	**72**	63 U	*see VOC's*	**11 J**	63 U	*see VOC's*	**9.1 J**	**120 J**
ICS-LP1-SO-C-101512					**9.5 J_B**	19 U	4.7 U	4.7 U	**12 J**	4.7 U	4.7 U	38 U
ICS-LP1-SO-D-101512												
ICS-LP2-SO-A-101512					18 U	18 U	4.6 U	4.6 U	18 U	4.6 U	4.6 U	37 U
ICS-LP2-SO-B-101512	1.2 U	1.2 U	1.2 U	1.2 U	19 U	19 U	*see VOC's*	*see VOC's*	**9.0 J**	*see VOC's*	4.7 U	38 U
ICS-LP2-SO-C-101512					19 U	19 U	4.8 U	4.8 U	**19**	4.8 U	4.8 U	38 U
ICS-LP2-SO-D-101512												
ICS-LP3-SO-A-101512					**31**	19 U	4.7 U	4.7 U	19 U	**3.4 J**	**7.5**	**12 J**
ICS-LP3-SO-B-101512	2500 U	**1500 J**	**2300 J**	**2600**	**2800**	670 U	**77 J**	**470**	340 U	**1800**	**3200**	**4900**
ICS-LP3-SO-C-101512					**38**	18 U	**7.5**	**21**	18 U	**37**	**28**	**68**
ICS-LP3-SO-D-101512												
ICS-LP4-SO-A-101512					**74**	57 U	**11 J**	**11 J**	57 U	**45**	**33**	**54 J**
ICS-LP4-SO-B-101512	110 U	**58 J**	**150**	**110**	**250**	19 U	**2.7 J**	*see VOC's*	19 U	*see VOC's*	**81**	**700**
ICS-LP4-SO-C-101512					18 U	18 U	4.5 U	4.5 U	18 U	**2.6 J**	4.5 U	36 U
ICS-LP4-SO-D-101512												
ICS-LP4-NAPL-101512												
ICS-DOF-MW1-A-101512	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 U	*see VOC's*	*see VOC's*	20 U	*see VOC's*	4.9 U	39 U
ICS-DOF-MW1-B-101512	1.2 U	1.2 U	1.2 U	1.2 U	**14 J_B**	19 U	*see VOC's*	*see VOC's*	19 U	*see VOC's*	4.7 U	**9.4 J**
ICS-DOF-MW1-C-101512	1.3 U	1.3 U	1.3 U	1.3 U	**12 J_B**	19 U	*see VOC's*	*see VOC's*	**25**	**4.2 J**	4.6 U	37 U
ICS-DOF-MW2-A-101612	0.9 U	0.9 U	0.9 U	0.9 U	18 U	18 U	*see VOC's*	*see VOC's*	18 U	*see VOC's*	4.6 U	37 U
ICS-DOF-MW2-B-101612	1.1 U	1.1 U	1.1 U	1.1 U	19 U	19 U	*see VOC's*	*see VOC's*	19 U	*see VOC's*	4.8 U	38 U
ICS-DOF-MW2-C-101612	1.3 U	1.3 U	1.3 U	1.3 U	20 U	20 U	*see VOC's*	*see VOC's*	20 U	*see VOC's*	4.9 U	39 U
ICS-DOF-MW2-D-101612												
ICS-DOF-MW3-A-101612	1.1 U	1.1 U	1.1 U	1.1 U	19 U	19 U	*see VOC's*	*see VOC's*	19 U	*see VOC's*	4.8 U	38 U
ICS-DOF-DUP1-101612	1.1 U	1.1 U	1.1 U	1.1 U	19 U	19 U	*see VOC's*	*see VOC's*	19 U	*see VOC's*	4.7 U	38 U
ICS-DOF-MW3-B-101612	1.1 U	1.1 U	1.1 U	1.1 U	20 U	20 U	*see VOC's*	*see VOC's*	20 U	*see VOC's*	5.0 U	40 U
ICS-DOF-MW3-C-101612												
ICS-DOF-MW3-D-101612												
ICS-DOF-MW4-A-101712	1.0 U	1.0 U	1.0 U	1.0 U	19 U	19 U	*see VOC's*	*see VOC's*	19 U	*see VOC's*	4.8 U	38 U
ICS-DOF-MW4-B-101712	1.3 U	1.3 U	1.3 U	1.3 U	19 U	19 U	*see VOC's*	*see VOC's*	**9.1 J**	*see VOC's*	4.7 U	38 U
ICS-DOF-MW4-C-101712	1.1 U	1.1 U	1.1 U	1.1 U	**14 J**	20 U	*see VOC's*	*see VOC's*	**42**	*see VOC's*	5.0 U	**14 J**
ICS-DOF-MW4-D-101712												
ICS-DOF-MW5-A-101712	0.9 U	0.9 U	0.9 U	0.9 U	18 U	18 U	*see VOC's*	*see VOC's*	18 U	*see VOC's*	4.5 U	36 U
ICS-DOF-MW5-B-101712	1.1 U	1.1 U	1.1 U	1.1 U	20 U	20 U	*see VOC's*	*see VOC's*	**17 J**	*see VOC's*	5.0 U	**14 J**
ICS-DOF-MW5-C-101712												
ICS-DOF-MW5-D-101712												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	*tert*-Butyl-benzene 98-06-6 µg/kg, dry	*sec*-Butyl-benzene 135-98-8 µg/kg, dry	4-Isopropyl-toluene 99-87-6 µg/kg, dry	n-Butyl-benzene 104-51-8 µg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry
ICS-DOF-MW6-A-101712	280 U	**2100**	**4000**	**4400**	100 U	100 U	*see VOC's*	*see VOC's*	100 U	*see VOC's*	**45**	210 U
ICS-DOF-MW6-B-101712	270 U	**1400**	**2600**	**2900**	44 U	44 U	*see VOC's*	*see VOC's*	44 U	*see VOC's*	**17**	89 U
ICS-DOF-DUP2-101712	270 U	**480**	**890**	**1000**	61 U	61 U	*see VOC's*	*see VOC's*	61 U	*see VOC's*	**27**	120 U
ICS-DOF-MW6-C-101712	1.6 U	1.6 U	1.6 U	1.6 U	**650**	19 U	**26**	**120**	19 U	**7.2**	**8.8**	**42**
ICS-DOF-MW6-D-101712												
ICS-DOF-MW7-A-101612	91 U	91 U	91 U	91 U	**260**	19 U	19 U	19 U	19 U	**17 J**	**36**	**520**
ICS-DOF-MW7-B-101612	1.2 U	1.2 U	1.2 U	1.2 U	19 U	19 U	**2.8 J**	**4.7 J**	19 U	**6.8**	**7.6**	**80**
ICS-DOF-MW7-C-101612	1.3 U	1.3 U	1.3 U	1.3 U	**9.4 J**	19 U	*see VOC's*	*see VOC's*	**15 J**	*see VOC's*	**12**	**58**
ICS-DOF-MW7-D-101612												
ICS-DOF-MW8-A-101612	1.0 U	1.0 U	1.0 U	1.0 U	19 U	19 U	*see VOC's*	*see VOC's*	19 U	*see VOC's*	**4.2 J**	**31 J**
ICS-DOF-MW8-B-101612	1.3 U	1.3 U	**9.0**	1.3 U	19 U	19 U	*see VOC's*	*see VOC's*	19 U	*see VOC's*	4.8 U	38 U
ICS-DOF-MW8-C-101612	1.2 U	1.2 U	1.2 U	1.2 U	20 U	20 U	*see VOC's*	*see VOC's*	**14 J**	*see VOC's*	4.9 U	**11 J**
ICS-DOF-MW8-D-101612												
Trip Blank *(µg/L)*	1.0 U	1.0 U	1.0 U	1.0 U								

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value may be biased high due to contribution from laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	N-Nitroso-di-N-propylamine 621-64-7 µg/kg, dry	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,6-Trichloro-phenol 88-06-2 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry
ICS-LP1-SO-A-101512	18 U	18 U	18 U	18 U	**8.7 J**	350 U	180 U	4.4 U	**45**	87 U	**31**	87 U	87 U
ICS-LP1-SO-B-101512	63 U	63 U	63 U	63 U	**15 J**	1300 U	630 U	**10 J**	**91**	320 U	**66**	320 U	320 U
ICS-LP1-SO-C-101512	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.7 U	19 U	95 U	19 U	95 U	95 U
ICS-LP1-SO-D-101512													
ICS-LP2-SO-A-101512	18 U	18 U	18 U	18 U	18 U	370 U	180 U	18 U	**28**	92 U	**14 J**	92 U	92 U
ICS-LP2-SO-B-101512	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.7 U	**18 J**	95 U	**13 J**	95 U	95 U
ICS-LP2-SO-C-101512	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.8 U	19 U	96 U	19 U	96 U	96 U
ICS-LP2-SO-D-101512													
ICS-LP3-SO-A-101512	19 U	19 U	19 U	19 U	**3.4 J**	370 U	190 U	4.7 U	**210**	93 U	**90**	93 U	93 U
ICS-LP3-SO-B-101512	670 U	670 U	670 U	670 U	**2000**	13,000 U	6700 U	**340**	**51,000**	3400 U	**34,000**	3400 U	**1000 J**
ICS-LP3-SO-C-101512	18 U	18 U	18 U	18 U	**120**	370 U	180 U	**38**	**190**	**150**	**160**	91 U	91 U
ICS-LP3-SO-D-101512													
ICS-LP4-SO-A-101512	57 U	57 U	57 U	57 U	**18 J**	1100 U	570 U	**170**	**770**	280 U	**540**	280 U	280 U
ICS-LP4-SO-B-101512	19 U	19 U	19 U	19 U	**2600**	380 U	**170 J**	**19**	**560**	**1200**	**240**	94 U	**52 J**
ICS-LP4-SO-C-101512	18 U	18 U	18 U	18 U	**18 J**	360 U	180 U	4.5 U	18 U	90 U	18 U	90 U	90 U
ICS-LP4-SO-D-101512													
ICS-LP4-NAPL-101512													
ICS-DOF-MW1-A-101512	20 U	20 U	20 U	20 U	20 U	390 U	200 U	4.9 U	**840**	98 U	**89**	98 U	98 U
ICS-DOF-MW1-B-101512	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.7 U	19 U	94 U	19 U	94 U	94 U
ICS-DOF-MW1-C-101512	19 U	19 U	19 U	19 U	19 U	370 U	190 U	4.6 U	19 U	93 U	19 U	93 U	93 U
ICS-DOF-MW2-A-101612	18 U	18 U	18 U	18 U	18 U	370 U	180 U	4.6 U	18 U	92 U	18 U	92 U	92 U
ICS-DOF-MW2-B-101612	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.8 U	19 U	96 U	19 U	96 U	96 U
ICS-DOF-MW2-C-101612	20 U	20 U	20 U	20 U	20 U	390 U	200 U	4.9 U	20 U	98 U	20 U	98 U	98 U
ICS-DOF-MW2-D-101612													
ICS-DOF-MW3-A-101612	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.8 U	19 U	96 U	19 U	96 U	96 U
ICS-DOF-DUP1-101612	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.7 U	19 U	94 U	**12 J**	94 U	94 U
ICS-DOF-MW3-B-101612	20 U	20 U	20 U	20 U	20 U	400 U	200 U	5.0 U	**12 J**	100 U	**23**	100 U	100 U
ICS-DOF-MW3-C-101612													
ICS-DOF-MW3-D-101612													
ICS-DOF-MW4-A-101712	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.8 U	19 U	95 U	**9.5 J**	95 U	95 U
ICS-DOF-MW4-B-101712	19 U	19 U	19 U	19 U	19 U	380 U	190 U	4.7 U	**19**	95 U	**36**	95 U	95 U
ICS-DOF-MW4-C-101712	20 U	20 U	20 U	20 U	20 U	**120 J**	200 U	5.0 U	**24**	99 U	**24**	99 U	99 U
ICS-DOF-MW4-D-101712													
ICS-DOF-MW5-A-101712	18 U	18 U	18 U	18 U	18 U	360 U	180 U	4.5 U	**14 J**	90 U	**25**	90 U	90 U
ICS-DOF-MW5-B-101712	20 U	20 U	20 U	20 U	20 U	400 U	200 U	5.0 U	**46**	99 U	**56**	99 U	99 U
ICS-DOF-MW5-C-101712													
ICS-DOF-MW5-D-101712													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	N-Nitroso-di-N-propylamine 621-64-7 µg/kg, dry	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,6-Trichloro-phenol 88-06-2 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry
ICS-DOF-MW6-A-101712	100 U	100 U	100 U	100 U	210 U	2100 U	1000 U	**1100**	**10,000**	520 U	**62,000**	520 U	520 U
ICS-DOF-MW6-B-101712	44 U	44 U	44 U	44 U	89 U	890 U	440 U	**200**	**2900**	220 U	**17,000**	220 U	220 U
ICS-DOF-DUP2-101712	61 U	61 U	61 U	61 U	120 U	1200 U	610 U	**460**	**5200**	300 U	**33,000**	300 U	300 U
ICS-DOF-MW6-C-101712	19 U	19 U	19 U	19 U	**350**	370 U	190 U	4.7 U	**49**	93 U	**98**	93 U	93 U
ICS-DOF-MW6-D-101712													
ICS-DOF-MW7-A-101612	19 U	19 U	19 U	19 U	**200**	370 U	**32 J**	**240**	**680**	93 U	**91,000**	93 U	93 U
ICS-DOF-MW7-B-101612	19 U	19 U	19 U	19 U	**26**	380 U	190 U	**11**	19 U	95 U	**93**	95 U	95 U
ICS-DOF-MW7-C-101612	19 U	19 U	19 U	19 U	**33**	380 U	190 U	19 U	**55**	94 U	**470**	94 U	94 U
ICS-DOF-MW7-D-101612													
ICS-DOF-MW8-A-101612	19 U	19 U	19 U	19 U	**3.4 J**	380 U	190 U	4.7 U	**11 J**	95 U	**16 J**	95 U	95 U
ICS-DOF-MW8-B-101612	19 U	19 U	19 U	19 U	**14 J**	380 U	190 U	4.8 U	**64**	95 U	**150**	95 U	95 U
ICS-DOF-MW8-C-101612	20 U	20 U	20 U	20 U	**4.7 J**	390 U	200 U	4.9 U	**24**	98 U	**240**	98 U	98 U
ICS-DOF-MW8-D-101612													
Trip Blank *(µg/L)*													

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry
ICS-LP1-SO-A-101512	18 U	18 U	**23**	18 U	18 U	87 U	87 U	44 U	18 U	18 U	18 U	**15 J**	**52**
ICS-LP1-SO-B-101512	63 U	63 U	63 U	**50 J**	63 U	320 U	320 U	160 U	63 U	**50 J**	**38 J**	**140 J**	**200**
ICS-LP1-SO-C-101512	19 U	19 U	19 U	19 U	19 U	95 U	95 U	47 U	19 U	19 U	19 U	47 U	19 U
ICS-LP1-SO-D-101512													
ICS-LP2-SO-A-101512	18 U	18 U	18 U	18 U	18 U	92 U	92 U	46 U	18 U	18 U	18 U	46 U	**42**
ICS-LP2-SO-B-101512	19 U	19 U	19 U	19 U	19 U	95 U	95 U	47 U	19 U	19 U	19 U	47 U	**9.5 J**
ICS-LP2-SO-C-101512	19 U	19 U	19 U	19 U	19 U	96 U	96 U	48 U	19 U	19 U	19 U	48 U	19 U
ICS-LP2-SO-D-101512													
ICS-LP3-SO-A-101512	19 U	**460**	**18 J**	**23**	**48**	93 U	93 U	**1300**	19 U	**45**	**12 J**	**460**	**220**
ICS-LP3-SO-B-101512	670 U	**540 J**	670 U	**9700**	**7100**	3400 U	3400 U	**2200**	670 U	**12,000**	**1400**	**5300 J**	**42,000**
ICS-LP3-SO-C-101512	18 U	18 U	18 U	**46**	**36**	91 U	91 U	**34 J**	18 U	**78**	**28**	**56 J**	**330**
ICS-LP3-SO-D-101512													
ICS-LP4-SO-A-101512	57 U	57 U	57 U	**250**	**190**	280 U	280 U	140 U	57 U	**310**	**94**	**210 J**	**1100**
ICS-LP4-SO-B-101512	**760**	19 U	19 U	**20**	**24**	94 U	94 U	47 U	19 U	**45**	**41**	**150 J**	**250**
ICS-LP4-SO-C-101512	18 U	18 U	18 U	18 U	18 U	90 U	90 U	45 U	18 U	18 U	18 U	45 U	18 U
ICS-LP4-SO-D-101512													
ICS-LP4-NAPL-101512													
ICS-DOF-MW1-A-101512	20 U	20 U	20 U	20 U	**19 J**	98 U	98 U	49 U	20 U	20 U	20 U	49 U	**86**
ICS-DOF-MW1-B-101512	19 U	19 U	19 U	19 U	19 U	94 U	94 U	47 U	19 U	19 U	19 U	47 U	19 U
ICS-DOF-MW1-C-101512	19 U	19 U	19 U	19 U	19 U	93 U	93 U	46 U	19 U	19 U	19 U	46 U	19 U
ICS-DOF-MW2-A-101612	18 U	18 U	18 U	18 U	18 U	92 U	92 U	46 U	18 U	18 U	18 U	46 U	18 U
ICS-DOF-MW2-B-101612	19 U	19 U	19 U	19 U	19 U	96 U	96 U	48 U	19 U	19 U	19 U	48 U	19 U
ICS-DOF-MW2-C-101612	20 U	20 U	20 U	20 U	20 U	98 U	98 U	49 U	20 U	20 U	20 U	49 U	20 U
ICS-DOF-MW2-D-101612													
ICS-DOF-MW3-A-101612	19 U	19 U	19 U	19 U	19 U	96 U	96 U	48 U	19 U	19 U	19 U	48 U	19 U
ICS-DOF-DUP1-101612	19 U	19 U	19 U	19 U	19 U	94 U	94 U	47 U	19 U	19 U	19 U	47 U	19 U
ICS-DOF-MW3-B-101612	20 U	20 U	20 U	20 U	20 U	100 U	100 U	50 U	20 U	20 U	**13 J**	50 U	**30**
ICS-DOF-MW3-C-101612													
ICS-DOF-MW3-D-101612													
ICS-DOF-MW4-A-101712	19 U	19 U	19 U	19 U	19 U	95 U	95 U	48 U	19 U	19 U	19 U	48 U	19 U
ICS-DOF-MW4-B-101712	19 U	19 U	19 U	19 U	**15 J**	95 U	95 U	47 U	19 U	**10 J**	**15 J**	47 U	**51**
ICS-DOF-MW4-C-101712	20 U	20 U	20 U	**16 J**	**22**	99 U	99 U	50 U	20 U	**25**	20 U	50 U	**69**
ICS-DOF-MW4-D-101712													
ICS-DOF-MW5-A-101712	18 U	18 U	18 U	18 U	**12 J**	90 U	90 U	45 U	18 U	18 U	18 U	45 U	**36**
ICS-DOF-MW5-B-101712	20 U	20 U	20 U	**11 J**	**24**	99 U	99 U	50 U	20 U	**14 J**	20 U	50 U	**61**
ICS-DOF-MW5-C-101712													
ICS-DOF-MW5-D-101712													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry
ICS-DOF-MW6-A-101712	100 U	100 U	100 U	**3200**	100 U	520 U	520 U	260 U	100 U	**8400**	100 U	260 U	**9500**
ICS-DOF-MW6-B-101712	44 U	44 U	44 U	**620**	**330**	220 U	220 U	110 U	44 U	**1600**	44 U	110 U	**2400**
ICS-DOF-DUP2-101712	61 U	61 U	61 U	**1500**	61 U	300 U	300 U	150 U	61 U	**3500**	61 U	150 U	**4900**
ICS-DOF-MW6-C-101712	19 U	19 U	19 U	19 U	19 U	93 U	93 U	47 U	19 U	**12 J**	19 U	47 U	19 U
ICS-DOF-MW6-D-101712													
ICS-DOF-MW7-A-101612	19 U	19 U	**73**	**420**	**72**	93 U	93 U	47 U	19 U	**340**	19 U	**160,000**	**1000**
ICS-DOF-MW7-B-101612	19 U	19 U	19 U	19 U	19 U	95 U	95 U	48 U	19 U	**25**	**4.4 J**	**88**	**13 J**
ICS-DOF-MW7-C-101612	19 U	19 U	19 U	19 U	19 U	94 U	94 U	47 U	19 U	19 U	19 U	**62**	19 U
ICS-DOF-MW7-D-101612													
ICS-DOF-MW8-A-101612	19 U	19 U	19 U	19 U	19 U	95 U	95 U	47 U	19 U	19 U	19 U	190 U	19 U
ICS-DOF-MW8-B-101612	19 U	19 U	**27**	**110**	**160**	95 U	95 U	48 U	19 U	**220**	19 U	**24 J**	**620**
ICS-DOF-MW8-C-101612	20 U	20 U	20 U	20 U	20 U	98 U	98 U	49 U	20 U	20 U	20 U	**250**	20 U
ICS-DOF-MW8-D-101612													
Trip Blank *(µg/L)*													

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry	Pyrene 129-00-0 µg/kg, dry	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry
ICS-LP1-SO-A-101512	18 U	**21**	**9.6 J**	**68**	**66**	4.4 U	**34**	**170**	**53**	18 U	**93**	**62**	**51**
ICS-LP1-SO-B-101512	63 U	**110**	63 U	**540**	**600**	63 U	**220**	**2100**	**350**	63 U	**510**	**230**	**110**
ICS-LP1-SO-C-101512	19 U	19 U	19 U	**10 J**	**10 J**	4.7 U	19 U	**19 J_B**	19 U	19 U	38 U	19 U	19 U
ICS-LP1-SO-D-101512													
ICS-LP2-SO-A-101512	18 U	18 U	**10 J**	**55**	**50**	4.6 U	**21**	**37**	**38**	18 U	**56**	**25**	**23**
ICS-LP2-SO-B-101512	19 U	19 U	19 U	19 U	19 U	4.7 U	19 U	**22 J_B**	19 U	19 U	38 U	19 U	19 U
ICS-LP2-SO-C-101512	19 U	19 U	19 U	19 U	19 U	4.8 U	19 U	**24 J_B**	19 U	19 U	38 U	19 U	19 U
ICS-LP2-SO-D-101512													
ICS-LP3-SO-A-101512	**34**	**34**	**420**	**200**	**130**	**180**	**88**	**380**	**110**	19 U	**270**	**150**	**170**
ICS-LP3-SO-B-101512	**6000**	**7900**	**16,000**	**32,000**	**23,000**	**14,000**	**13,000**	**55,000**	**14,000**	670 U	**18,000**	**10,000**	**4500**
ICS-LP3-SO-C-101512	**33**	**42**	**81**	**120**	**120**	**48**	**49**	**340**	**64**	18 U	**78**	**38**	**16 J**
ICS-LP3-SO-D-101512													
ICS-LP4-SO-A-101512	**60**	**220**	**300**	**850**	**650**	**57**	**240**	**1400**	**300**	57 U	**350**	**200**	**99**
ICS-LP4-SO-B-101512	19 U	19 U	19 U	**130**	**140**	4.7 U	**50**	**120**	**79**	19 U	**84**	**41**	19 U
ICS-LP4-SO-C-101512	18 U	18 U	18 U	18 U	18 U	4.5 U	18 U	**22 J_B**	18 U	18 U	36 U	18 U	18 U
ICS-LP4-SO-D-101512													
ICS-LP4-NAPL-101512													
ICS-DOF-MW1-A-101512	20 U	20 U	20 U	**36**	**35**	20 U	**12 J**	**20 J_B**	**17 J**	20 U	**20 J**	20 U	20 U
ICS-DOF-MW1-B-101512	19 U	19 U	19 U	19 U	19 U	4.7 U	19 U	**22 J_B**	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW1-C-101512	19 U	19 U	19 U	19 U	19 U	4.6 U	19 U	**30 J_B**	19 U	19 U	37 U	19 U	19 U
ICS-DOF-MW2-A-101612	18 U	18 U	18 U	18 U	18 U	4.6 U	18 U	**17 J_B**	18 U	18 U	37 U	18 U	18 U
ICS-DOF-MW2-B-101612	19 U	19 U	19 U	19 U	19 U	4.8 U	19 U	**14 J_B**	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW2-C-101612	20 U	20 U	20 U	20 U	20 U	4.9 U	20 U	**16 J_B**	20 U	20 U	39 U	20 U	20 U
ICS-DOF-MW2-D-101612													
ICS-DOF-MW3-A-101612	19 U	19 U	19 U	19 U	19 U	**13**	19 U	**260**	19 U	19 U	38 U	19 U	19 U
ICS-DOF-DUP1-101612	19 U	19 U	19 U	19 U	19 U	4.7 U	19 U	24 U	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW3-B-101612	20 U	20 U	20 U	20 U	20 U	5.0 U	20 U	25 U	20 U	20 U	40 U	20 U	20 U
ICS-DOF-MW3-C-101612													
ICS-DOF-MW3-D-101612													
ICS-DOF-MW4-A-101712	19 U	19 U	19 U	19 U	19 U	4.8 U	19 U	24 U	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW4-B-101712	19 U	19 U	19 U	**24**	**18 J**	4.7 U	19 U	**16 J_B**	**10 J**	19 U	38 U	19 U	19 U
ICS-DOF-MW4-C-101712	20 U	**17 J**	20 U	**85**	**56**	5.0 U	**19 J**	**20 J_B**	**23**	20 U	**27 J**	**14 J**	20 U
ICS-DOF-MW4-D-101712													
ICS-DOF-MW5-A-101712	18 U	18 U	18 U	**14 J**	**14 J**	4.5 U	18 U	23 U	**13 J**	18 U	**9.0 J**	18 U	18 U
ICS-DOF-MW5-B-101712	20 U	**11 J**	20 U	**34**	**32**	5.0 U	**11 J**	25 U	**12 J**	20 U	**13 J**	20 U	20 U
ICS-DOF-MW5-C-101712													
ICS-DOF-MW5-D-101712													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry	Pyrene 129-00-0 µg/kg, dry	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry
ICS-DOF-MW6-A-101712	100 U	100 U	100 U	**99 J**	**300**	26 U	100 U	**88 J**	100 U	100 U	**88 J**	100 U	100 U
ICS-DOF-MW6-B-101712	44 U	44 U	44 U	**47**	**78**	11 U	**29 J**	**62**	**62**	44 U	**31 J**	44 U	44 U
ICS-DOF-DUP2-101712	61 U	61 U	61 U	**94**	**180**	15 U	**70**	76 U	**120**	61 U	**42 J**	61 U	61 U
ICS-DOF-MW6-C-101712	19 U	19 U	19 U	19 U	19 U	4.7 U	19 U	23 U	19 U	19 U	37 U	19 U	19 U
ICS-DOF-MW6-D-101712													
ICS-DOF-MW7-A-101612	**34 J_Q**	**270**	**600**	**580**	**530**	**130**	**250**	**400**	**220**	19 U	**240**	**150**	**52**
ICS-DOF-MW7-B-101612	19 U	19 U	19 U	19 U	19 U	4.8 U	19 U	24 U	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW7-C-101612	19 U	19 U	19 U	19 U	19 U	4.7 U	19 U	24 U	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW7-D-101612													
ICS-DOF-MW8-A-101612	19 U	19 U	19 U	19 U	19 U	4.7 U	19 U	**17 J_B**	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW8-B-101612	**200 J_Q**	**94**	19 U	**12 J**	19 U	4.8 U	19 U	**18 J_B**	19 U	19 U	38 U	19 U	19 U
ICS-DOF-MW8-C-101612	20 U	20 U	20 U	20 U	20 U	4.9 U	20 U	**23 J_B**	20 U	20 U	39 U	20 U	20 U
ICS-DOF-MW8-D-101612													
Trip Blank *(µg/L)*													

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value may be biased high due to contribution from laboratory background or method blank.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry
ICS-LP1-SO-A-101512	**11 J**	**77**	141	515	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	4.9 U	2.5 U	4.9 U	4.9 U
ICS-LP1-SO-B-101512	63 U	**130**	501	2690	17 U	17 U	52 U	17 U	19 U	17 U	180 U	17 U	96 U	**430**
ICS-LP1-SO-C-101512	19 U	19 U	19 U	20	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U
ICS-LP1-SO-D-101512														
ICS-LP2-SO-A-101512	18 U	**31**	70	299	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	2.7 U	0.94 U
ICS-LP2-SO-B-101512	19 U	19 U	27.5	38 U	0.46 U	0.76 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	0.92 U	0.92 U
ICS-LP2-SO-C-101512	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U
ICS-LP2-SO-D-101512														
ICS-LP3-SO-A-101512	**48**	**190**	550	1356	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	110 U	130 U	12 U	79 U
ICS-LP3-SO-B-101512	**2300**	**4400**	122,600	121,200	120 U	350 U	120 U	120 U	620 U	120 U	2400 U	120 U	240 U	**2900 J_P**
ICS-LP3-SO-C-101512	18 U	**19**	686	504	4.9 U	13 U	50 U	4.9 U	20 U	4.9 U	70 U	4.9 U	56 U	**170 J_P**
ICS-LP3-SO-D-101512														
ICS-LP4-SO-A-101512	**34 J**	**120**	2650	2843	20 U	20 U	290 U	20 U	120 U	20 U	220 U	20 U	41 U	**380 J_P**
ICS-LP4-SO-B-101512	19 U	19 U	875	524	2.8 U	16 U	12 U	2.8 U	12 U	2.8 U	46 U	2.8 U	20 U	**94 J_P**
ICS-LP4-SO-C-101512	18 U	18 U	18 U	36 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.91 U	0.46 U	0.91 U	**5.6**
ICS-LP4-SO-D-101512														
ICS-LP4-NAPL-101512														
ICS-DOF-MW1-A-101512	20 U	20 U	926	120	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	3.9 U	0.47 U	12 U	0.94 U
ICS-DOF-MW1-B-101512	19 U	19 U	19 U	38 U	0.47 U	1.5 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U
ICS-DOF-MW1-C-101512	19 U	19 U	19 U	37 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U
ICS-DOF-MW2-A-101612	18 U	18 U	18 U	37 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U
ICS-DOF-MW2-B-101612	19 U	19 U	19 U	38 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U
ICS-DOF-MW2-C-101612	20 U	20 U	20 U	39 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U
ICS-DOF-MW2-D-101612														
ICS-DOF-MW3-A-101612	19 U	19 U	19 U	38 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U
ICS-DOF-DUP1-101612	19 U	19 U	19 U	38 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U
ICS-DOF-MW3-B-101612	20 U	20 U	42	40 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	0.92 U	0.92 U
ICS-DOF-MW3-C-101612														
ICS-DOF-MW3-D-101612														
ICS-DOF-MW4-A-101712	19 U	19 U	19 U	38 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U
ICS-DOF-MW4-B-101712	19 U	19 U	80	52	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U
ICS-DOF-MW4-C-101712	20 U	**12 J**	151	236	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U
ICS-DOF-MW4-D-101712														
ICS-DOF-MW5-A-101712	18 U	18 U	50	50	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	0.92 U	0.92 U
ICS-DOF-MW5-B-101712	20 U	20 U	143	102	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U
ICS-DOF-MW5-C-101712														
ICS-DOF-MW5-D-101712														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry
ICS-DOF-MW6-A-101712	100 U	100 U	31,100	487	2.5 U	16 U	2.5 U	2.5 U	2.5 U	2.5 U	4.9 U	2.5 U	4.9 U	4.9 U
ICS-DOF-MW6-B-101712	44 U	44 U	7520	247	2.4 U	10 U	2.4 U	2.4 U	2.4 U	2.4 U	10 U	2.4 U	36 U	4.8 U
ICS-DOF-DUP2-101712	61 U	61 U	15,100	247	2.4 U	8.5 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U	33 U	4.8 U
ICS-DOF-MW6-C-101712	19 U	19 U	61	37 U	13 U	4.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	6.0 U	0.99 U	0.99 U
ICS-DOF-MW6-D-101712														
ICS-DOF-MW7-A-101612	**15 J**	**100**	2783	2137	4.4 U	200 U	95 U	4.4 U	4.4 U	4.4 U	15 U	40 U	8.8 U	**23 J_P**
ICS-DOF-MW7-B-101612	19 U	19 U	38	38 U	0.49 U	0.55 U	0.49 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U
ICS-DOF-MW7-C-101612	19 U	19 U	55	38 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U
ICS-DOF-MW7-D-101612														
ICS-DOF-MW8-A-101612	19 U	19 U	11	38 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	**0.68**	0.93 U	0.46 U	0.93 U	0.93 U
ICS-DOF-MW8-B-101612	19 U	19 U	1135	12	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**1.2**	0.99 U	0.50 U	0.99 U	0.99 U
ICS-DOF-MW8-C-101612	20 U	20 U	24	39 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U
ICS-DOF-MW8-D-101612														
Trip Blank *(µg/L)*														

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry	Endrin aldehyde 7421-93-4 µg/kg, dry	trans-Chlordane 5103-74-2 µg/kg, dry	cis-Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachloro-butadiene 87-68-3 µg/kg, dry
ICS-LP1-SO-A-101512	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	25 U	4.9 U	4.9 U	2.5 U	2.5 U	490 U	4.9 U	4.9 U
ICS-LP1-SO-B-101512	34 U	86 U	**1000**	34 U	270 U	170 U	120 U	74 U	83 U	17 U	3400 U	34 U	34 U
ICS-LP1-SO-C-101512	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U	0.94 U
ICS-LP1-SO-D-101512													
ICS-LP2-SO-A-101512	1.4 U	3.7 U	0.94 U	0.94 U	4.6 U	4.7 U	4.2 U	2.3 U	0.47 U	0.47 U	94 U	0.94 U	0.94 U
ICS-LP2-SO-B-101512	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.46 U	0.46 U	92 U	0.92 U	0.92 U
ICS-LP2-SO-C-101512	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U	0.96 U
ICS-LP2-SO-D-101512													
ICS-LP3-SO-A-101512	120 U	49 U	6.7 U	6.7 U	180 U	33 U	6.7 U	17 U	38 U	3.3 U	670 U	6.7 U	6.7 U
ICS-LP3-SO-B-101512	1200 U	1000 U	**3000 J_P**	240 U	2900 U	1200 U	240 U	810 U	690 U	120 U	24,000 U	240 U	240 U
ICS-LP3-SO-C-101512	47 U	9.8 U	**56 J_P**	9.8 U	62 U	49 U	30 U	18 U	26 U	4.9 U	980 U	9.8 U	9.8 U
ICS-LP3-SO-D-101512													
ICS-LP4-SO-A-101512	250 U	130 U	**970**	41 U	450 U	200 U	41 U	210 U	20 U	20 U	4100 U	41 U	41 U
ICS-LP4-SO-B-101512	30 U	16 U	**60 J_P**	5.5 U	56 U	28 U	5.5 U	20 U	9.8 U	2.8 U	550 U	21 U	5.5 U
ICS-LP4-SO-C-101512	0.91 U	0.91 U	**2.7**	0.91 U	2.5 U	4.6 U	0.91 U	0.91 U	0.46 U	0.46 U	91 U	0.91 U	0.91 U
ICS-LP4-SO-D-101512													
ICS-LP4-NAPL-101512													
ICS-DOF-MW1-A-101512	25 U	0.94 U	4.6 U	0.94 U	42 U	4.7 U	31 U	17 U	0.47 U	0.47 U	94 U	0.94 U	0.94 U
ICS-DOF-MW1-B-101512	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U	0.94 U
ICS-DOF-MW1-C-101512	2.0 U	0.97 U	0.97 U	0.97 U	3.2 U	4.8 U	0.97 U	1.4 U	0.48 U	0.48 U	97 U	0.97 U	0.97 U
ICS-DOF-MW2-A-101612	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U	0.97 U	0.49 U	0.49 U	97 U	0.97 U	0.97 U
ICS-DOF-MW2-B-101612	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U	0.94 U
ICS-DOF-MW2-C-101612	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U	0.96 U
ICS-DOF-MW2-D-101612													
ICS-DOF-MW3-A-101612	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	95 U	0.95 U	0.95 U
ICS-DOF-DUP1-101612	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	1.2 U	0.47 U	94 U	0.94 U	0.94 U
ICS-DOF-MW3-B-101612	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.46 U	0.46 U	92 U	0.92 U	0.92 U
ICS-DOF-MW3-C-101612													
ICS-DOF-MW3-D-101612													
ICS-DOF-MW4-A-101712	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	95 U	0.95 U	0.95 U
ICS-DOF-MW4-B-101712	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U	0.96 U
ICS-DOF-MW4-C-101712	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U	0.97 U	0.48 U	0.48 U	97 U	0.97 U	0.97 U
ICS-DOF-MW4-D-101712													
ICS-DOF-MW5-A-101712	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.46 U	0.46 U	92 U	0.92 U	0.92 U
ICS-DOF-MW5-B-101712	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U	0.94 U	0.94 U
ICS-DOF-MW5-C-101712													
ICS-DOF-MW5-D-101712													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry	Endrin aldehyde 7421-93-4 µg/kg, dry	trans-Chlordane 5103-74-2 µg/kg, dry	cis-Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachloro-butadiene 87-68-3 µg/kg, dry
ICS-DOF-MW6-A-101712	4.9 U	19 U	4.9 U	4.9 U	10 U	25 U	4.9 U	4.9 U	7.4 U	11 U	490 U	4.9 U	**73**
ICS-DOF-MW6-B-101712	48 U	68 U	4.8 U	4.8 U	72 U	24 U	4.8 U	43 U	7.5 U	11 U	480 U	4.8 U	**52**
ICS-DOF-DUP2-101712	44 U	27 U	4.8 U	4.8 U	67 U	24 U	59 U	41 U	9.1 U	14 U	480 U	4.8 U	**65**
ICS-DOF-MW6-C-101712	2.0 U	3.1 U	0.99 U	0.99 U	2.5 U	5.0 U	0.99 U	8.5 U	0.50 U	0.50 U	99 U	0.99 U	0.99 U
ICS-DOF-MW6-D-101712													
ICS-DOF-MW7-A-101612	8.8 U	8.8 U	8.8 U	8.8 U	22 U	44 U	23 U	22 U	13 U	4.4 U	880 U	**34**	8.8 U
ICS-DOF-MW7-B-101612	0.98 U	1.8 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	98 U	0.98 U	0.98 U
ICS-DOF-MW7-C-101612	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	98 U	0.98 U	0.98 U
ICS-DOF-MW7-D-101612													
ICS-DOF-MW8-A-101612	0.93 U	0.93 U	**1.7**	0.93 U	0.93 U	4.6 U	0.93 U	0.93 U	0.46 U	0.46 U	93 U	0.93 U	0.93 U
ICS-DOF-MW8-B-101612	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	99 U	0.99 U	0.99 U
ICS-DOF-MW8-C-101612	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U	0.96 U	0.96 U
ICS-DOF-MW8-D-101612													
Trip Blank *(µg/L)*													

J_P = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-LP1-SO-A-101512	3.8 U	3.8 U	**17 J_P**	**26**	**49**	3.8 U	3.8 U	92
ICS-LP1-SO-B-101512	140 U	140 U	**4100**	**4600**	**1900**	140 U	140 U	10,600
ICS-LP1-SO-C-101512	3.9 U	3.9 U	**10**	**12**	**12**	3.9 U	3.9 U	34
ICS-LP1-SO-D-101512								
ICS-LP2-SO-A-101512	3.8 U	3.8 U	3.8 U	**16**	**33**	3.8 U	3.8 U	49
ICS-LP2-SO-B-101512	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-LP2-SO-C-101512	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-LP2-SO-D-101512								
ICS-LP3-SO-A-101512	130 U	130 U	1900 U	**3300**	520 U	130 U	130 U	3300
ICS-LP3-SO-B-101512	980 U	980 U	**53,000**	**36,000**	**24,000**	980 U	980 U	113,000
ICS-LP3-SO-C-101512	37 U	37 U	**1000**	**760**	**310**	37 U	37 U	2070
ICS-LP3-SO-D-101512								
ICS-LP4-SO-A-101512	200 U	200 U	**7400**	**4000**	**3900**	200 U	200 U	15,300
ICS-LP4-SO-B-101512	55 U	55 U	**810**	**780**	**560**	55 U	55 U	2150
ICS-LP4-SO-C-101512	3.8 U	3.8 U	**31**	**21**	**12**	3.8 U	3.8 U	64
ICS-LP4-SO-D-101512								
ICS-LP4-NAPL-101512								
ICS-DOF-MW1-A-101512	3.7 U	3.7 U	9.3 U	83 U	**470**	3.7 U	3.7 U	470
ICS-DOF-MW1-B-101512	3.8 U	3.8 U	3.8 U	**5.8**	**9.8**	3.8 U	3.8 U	15.6
ICS-DOF-MW1-C-101512	3.8 U	3.8 U	**6.4**	7.6 U	**26**	3.8 U	3.8 U	32.4
ICS-DOF-MW2-A-101612	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-DOF-MW2-B-101612	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW2-C-101612	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW2-D-101612								
ICS-DOF-MW3-A-101612	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-DUP1-101612	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW3-B-101612	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-DOF-MW3-C-101612								
ICS-DOF-MW3-D-101612								
ICS-DOF-MW4-A-101712	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW4-B-101712	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-DOF-MW4-C-101712	3.9 U	3.9 U	3.9 U	**3.1 J**	**2.3 J**	3.9 U	3.9 U	5.4
ICS-DOF-MW4-D-101712								
ICS-DOF-MW5-A-101712	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-DOF-MW5-B-101712	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW5-C-101712								
ICS-DOF-MW5-D-101712								

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Soils Analyses, October 2012

Field I.D.	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-DOF-MW6-A-101712	19 U	19 U	**130**	**160**	**180**	19 U	19 U	470
ICS-DOF-MW6-B-101712	20 U	20 U	**260 J_P**	390 U	**1200**	20 U	20 U	1460
ICS-DOF-DUP2-101712	19 U	19 U	**200 J_P**	240 U	**740**	19 U	19 U	940
ICS-DOF-MW6-C-101712	4.0 U	4.0 U	**9.9 J_P**	12 U	**32**	4.0 U	4.0 U	41.9
ICS-DOF-MW6-D-101712								
ICS-DOF-MW7-A-101612	140 U	140 U	**220**	210 U	**670**	140 U	140 U	890
ICS-DOF-MW7-B-101612	3.9 U	3.9 U	**3.2 J**	**2.3 J**	**4.1 J_P**	3.9 U	3.9 U	9.6
ICS-DOF-MW7-C-101612	3.9 U	3.9 U	**3.3 J**	**2.4 J**	**2.5 J_P**	3.9 U	3.9 U	8.2
ICS-DOF-MW7-D-101612								
ICS-DOF-MW8-A-101612	3.7 U	3.7 U	3.7 U	**5.3**	**3.1 J**	3.7 U	5.6 U	8.4
ICS-DOF-MW8-B-101612	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	4.9 U	4.9 U
ICS-DOF-MW8-C-101612	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-DOF-MW8-D-101612								
Trip Blank *(µg/L)*								

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: December 30, 2012

SUBJECT: Data Evaluation/Assessment for 5 Surface Waters and 3 Solids (manhole/catch basin sediment, ash and baghouse dust) Collected during July and August 2012 from the ICS / [former] NW Cooperage Site, Seattle, WA

Five surface water samples and three solids were collected by Dalton, Olmsted & Fuglevand (DOF) staff on July 5, August 3, and August 13, 2012 for chemical characterization. All samples were delivered in four delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within six hours of collection. Samples were received on ice at temperatures between 3.6 and 13.6 degrees C, and maintained at the project laboratory at 4 degrees C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. One field rinsate and three VOC's trip/transport blanks were also submitted and analyzed for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012). All analyses were performed by methods presented in Tables SAP-3 through SAP-6 of the SAP.

VOC's	SW846-M.8260C	pH	SW846-M.9045
SVOC's	SW846-M.8270	SVOC's (selected)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. pesticides	SW846-M.8081
PCDD/PCDF's	EPA 1613B	chlor. phenols	SW846-M.8041
Hg	SW846-M.7470/7471A	metals (exc Hg)	SW846-M.6010C & EPA 200.8
total organic carbon	SW846-M.9060M	total petroleum HC's	NWTPH-Dx & -G
BTEX	SW846-M.8021M	Cl & SO_4	EPA 300.0
sediment grain size	PSEP		

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and selected analytes were further analyzed and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. These selected analytes include

the PAH's, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine (as diphenylamine), benzyl alcohol, and pentachlorophenol. Results for detected analytes were reported from the full-scan analyses or from the mode that yielded non-qualified data. For nondetected analytes, the lowest reporting limit between the two analytical modes was reported in the attached results table; generally from the SIM mode of analyses. Similarly, selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method and the volatile organic compound (VOC's) method (M.8260). The attached results table reports only one result, which is either one of the two exhibiting the lowest reporting limit or the result with the least limitations in data quality. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260 (VOC's method) were only considered when SVOC (in the case of naphthalene) and chlorinated pesticides (by M.8081 in the case of HCBD) analyses were not requested or reported. The lower reporting limit for chlorinated phenols was improved over M.8270 by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and acid cleanup steps.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications.

For the environmental samples, [lower] **reporting limits** were consistent with specified-limits presented in the SAP. Some Aroclors (commercial PCB mixtures) were reported with slightly elevated reporting limits or nondetects due to slightly elevated or busy baselines. Considerable effort was made by the analysts to achieve the specified lower reporting limits when the sample matrix and chemical interferences would allow it. In the case of polychlorinated dibenzo-*p*-dioxins and dibenzofurans (PCDD/PCDF's), analyte concentrations reported at less than the lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of some analyte carryover exhibited in delivery groups VE84 and VF62 due to elevated analyte levels in solids samples. This includes PCDD/PCDF's at levels significantly less than ($< 10x$) lower reporting limits and significantly less than levels reported in the project sample, and selected SVOC analytes (isophorone, naphthalene, dimethylphthalate, benzyl alcohol, and *bis*(2-ethylhexyl)phthalate) at levels significantly less than that reported in project samples. SVOC analyses were reperformed by reextraction and reanalyses until associated method blanks were determined to be acceptable. Sample results presented in the attached table are unaffected by any potential bias associated with either sample carryover and/or laboratory background. No results required qualification due to method blanks performance.

A single field equipment **rinsate blank** was generated and submitted for analysis of chloride, sulfate, dissolved metals, TPH, VOC's, SVOC's, chlorinated pesticides and PCB's. Only toluene was detected at 0.22 µg/L. No toluene was found in project samples greater than the lower reporting limit of 0.20 µg/L. Three **trip/transport blanks** were generated and submitted for analysis and determination of potential contamination during handling of VOC's, BTEX and TPHG samples. Results of these analyses are reported in the attached table – no target analytes were detected. No data required qualification due to field blanks performance.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. Some MS recoveries were nonevaluable due to high native levels of analyte interfering with [low] spike levels, such as iron and zinc in analytical group VE84 (MH1-SE). Several analytes, such as benzoic acid, anthracene, and chrysene exhibited LCS recoveries outside specification in single incidences, however the associated MS recoveries were acceptable. No associated data required qualification. Copper (Cu) matrix spike recovery was reported high (199%) in manhole/catchbasin sediment MH1-SE, requiring the qualification of the associated Cu result as likely biased high with the "J_R" qualifier code. Silver (Ag) matrix spike recovery in the ash sample (ASH) was reported low at 6.7% requiring the assignment of the "J_R" qualifier code to indicate results are considered estimated (biased low) due to a low matrix spike recovery. The presence of high chloride levels in the ash sample could yield depressed Ag recoveries. No other results required qualification of sample results due to unacceptable analyte recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, BTEX, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and PCDD/PCDF's. Four labeled compounds were utilized for the evaluation of VOC's recovery performance. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance. Trifluorotoluene and bromobenzene were used as surrogates for the TPH-G and BTEX analyses, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM utilized the surrogate compounds d_{10}-2-methylnaphthalene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. PCDD/PCDF's recoveries were evaluated with the stable isotope labeled C-13 analogs of the target analytes. All surrogate recoveries were within specification, with the exception of 2,4,6-tribromophenol and d_{14}-*p*-terphenyl in the DUST sample. Reextraction and reanalysis of the DUST showed a consistently low d_{14}-*p*-terphenyl recovery at 8.0% while the bromophenol was within the specified acceptance range. A single neutral surrogate compound out of four falling outside the acceptance range does not require the qualification of associated results. Results from the reextraction and reanalysis of DUST are reported in the attached table. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV) checks revealed occasional [minor] noncompliant responses for chloroethane, *t*-1,4-dichloro-2-butene, bromoform, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene (VOC's), pentachlorophenol (M.8270), hexachlorobenzene

(M.8270), and pyrene (M.8270-SIM). Associated results were mostly reported as nondetected, with the exception of hexachlorobenzene (HCB by GC/MS [M.8270]) in manhole/catch basin sediment at 230 µg/kg (J_Q). Reported data associated with noncompliant CCV's are nonetheless qualified as estimated with the "J_Q" code, even though the data quality, by other measures, is generally within specified acceptance limits.

A single pair of blind **field duplicate** samples were collected and submitted for analysis for the assessment of monitoring variability. A duplicate pair is identified in the attached table of sample results; SEEP1 / DUP1. Most analytes, with the exception of a few metals, were not detected. Results for detected parameters were essentially the same. Significant sample heterogeneity was exhibited in sample MH1 (manhole/catch basin sediment) for hexachlorobenzene – GC/MS (M.8270) analyses reported 230 µg/kg while GC/ECD (M.8081) analyses reported nondetected at 1.6 µg/kg U. Careful inspection of both data sets revealed no apparent error in analyses or reporting. The GC/MS result for HCB in sample MH1 is reported in the attached results table. Laboratory duplicate analyses were generally less than 20 RPD (within SAP specifications).

TPH-Dx analyses indicate principally lube-range hydrocarbons present in the manhole/catch basin sediment sample MH1. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present. No TPH was detected in any of the surface water samples collected.

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data for solids and water samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	TOC	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7	
					%	%	mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		1212872-VB38A			**2430**	**321**	1 U	-	**5**	-	1 U	-
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	1212873-VB38B			**2440**	**327**	1 U	-	**5**	-	1 U	-
ICS-SEEP2-GW-070512	grd water	7/5/2012		1212874-VB38C			**2220**	**303**	1 U	-	**4**	-	1 U	-
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	1212875-VB38D			0.1 U	0.1 U	0.2 U	-	0.2 U	-	0.2 U	-
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	1212876-VB38E										
ICS-OUTF-SW-080312	water	8/3/2012		1214841-VE83D / 1214862-VE83A			**7710**	**1100**	5 U	5 U	**8**	**10**	2 U	2 U
ICS-MH1-SW-080312	water	8/3/2012		1214865-VE83E / 1214863-VE83B			**6970**	**995**	5 U	5 U	**7**	**6**	2 U	2 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	1214864-VE83C										
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	1214866-VE84A	77	**4.20**				7 mg/kg U		**8** mg/kg		0.1 mg/kg U
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank	1214867-VE84B										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***	1215324-VF62A	71					**33.7** mg/kg		**4.7** mg/kg		0.2 mg/kg U
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***	1215325-VF62B	100					**0.5** mg/kg		**8.3** mg/kg		0.2 mg/kg U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Cadmium 7440-43-9		Calcium 7440-70-2		Chromium 7440-47-3		Copper 7440-50-8		Iron 7439-89-6	Lead 7439-92-1	
				diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	mg/kg	diss. µg/L	total µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.5 U	-	**74,100**	-	2 U	-	2 U	-		0.2 U	-
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.5 U	-	**74,100**	-	**2**	-	2 U	-		0.2 U	-
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.5 U	-	**76,200**	-	**2**	-	2 U	-		0.2 U	-
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.1 U	-	50 U	-	0.5 U	-	0.5 U	-		0.1 U	-
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank											
ICS-OUTF-SW-080312	water	8/3/2012		2 U	2 U	-	**169,000**	10 U	10 U	10 U	10 U		1 U	1 U
ICS-MH1-SW-080312	water	8/3/2012		2 U	2 U	-	**150,000**	10 U	10 U	10 U	10 U		0.5 U	1 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank											
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***		**1.3** mg/kg				**62.3** mg/kg		**86.8** mg/kg J_R	**25,400**		**63** mg/kg
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank											
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***		**3.9** mg/kg				**2110** mg/kg		**1830** mg/kg			**226** mg/kg
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***		**0.3** mg/kg				**1150** mg/kg		**653** mg/kg			**1200** mg/kg

J_R = estimate; due to low matrix spike recovery. Value likely biased low.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Magnesium 7439-95-4		Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Zinc 7440-66-6		Hardness
				diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		**173,000**	-	0.1 U	-	**4**	-	1 U	-	20 U	-	900
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	**173,000**	-	0.1 U	-	**4**	-	1 U	-	20 U	-	900
ICS-SEEP2-GW-070512	grd water	7/5/2012		**179,000**	-	0.1 U	-	**6**	-	1 U	-	**210**	-	930
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	50 U	-	0.1 U	-	0.5 U	-	0.2 U	-	4 U	-	0.33 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank											
ICS-OUTF-SW-080312	water	8/3/2012		-	**521,000**	0.1 U	0.1 U	10 U	10 U	5 U	5 U	100 U	100 U	2600
ICS-MH1-SW-080312	water	8/3/2012		-	**453,000**	0.1 U	0.1 U	10 U	10 U	5 U	5 U	100 U	100 U	2200
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank											
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***				**0.08** mg/kg		**39** mg/kg		**1.6** mg/kg		**464** mg/kg	
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank											
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***				**0.05** mg/kg		**171** mg/kg		**13.7** mg/kg J_R		**3680** mg/kg	
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***				0.02 mg/kg U		**107** mg/kg		**1.6** mg/kg		**2380** mg/kg	

J_R = estimate; due to low matrix spike recovery. Value likely biased low.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Total Petroleum Hydrocarbons			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane
				Gasoline-range	Diesel-range	Lube-range	74-87-3	74-83-9	75-01-4	75-00-3	75-09-2	67-64-1	75-15-0	75-35-4	75-34-3
				mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-080312	water	8/3/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**5.6**	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-080312	water	8/3/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**16**	0.20 U	0.20 U	0.20 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank				0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	9.9 mg/kg U	290 mg/kg	**1400** mg/kg									
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank	0.10 U											
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***												
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***												

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L	1,2-Dichloroethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Trichloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromodichloromethane 75-27-4 µg/L	1,2-Dichloropropane 78-87-5 µg/L	*cis*-1,3-Dichloropropene 10061-01-5 µg/L	Trichloroethene 79-01-6 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***											
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank											
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***											
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***											

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans*-1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.21**
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***			25 U							25 U		25 U
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank			0.25 U							0.25 U		0.25 U
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***												
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***												

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-OUTF-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-MH1-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	**0.71**	**0.29**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***				50 U	25 U					
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank				0.50 U	0.25 U					
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***										
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***										

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	1,1-Dichloropropene 563-58-6 µg/L	Dibromomethane 74-95-3 µg/L	1,1,1,2-Tetrachloroethane 630-20-6 µg/L	1,2,3-Trichloropropane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethylbenzene 108-67-8 µg/L	1,2,4-Trimethylbenzene 95-63-6 µg/L	Hexachlorobutadiene 87-68-3 µg/L	Ethylene dibromide 106-93-4 µg/L	Bromochloromethane 74-97-5 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	*see Cl pest.*	0.20 U	0.20 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	*see Cl pest.*	0.20 U	0.20 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	*see Cl pest.*	0.20 U	0.20 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	*see Cl pest.*	0.20 U	0.20 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U
ICS-OUTF-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	*see Cl pest.*	0.20 U	0.20 U
ICS-MH1-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.59**	*see Cl pest.*	0.20 U	0.20 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***										
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***										
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***										

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L	*tert*-Butyl-benzene 98-06-6 µg/L	*sec*-Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-080312	water	8/3/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***										
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***										
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***										

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	Naphthalene 91-20-3 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Benzyl alcohol 100-51-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.20 U	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U	*see VOC's*
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.20 U	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U	*see VOC's*
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.20 U	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U	*see VOC's*
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.20 U	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U	*see VOC's*
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	0.20 U	0.50 U	0.50 U	0.50 U			*see VOC's*	*see VOC's*		*see VOC's*
ICS-OUTF-SW-080312	water	8/3/2012		0.20 U	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U	*see VOC's*
ICS-MH1-SW-080312	water	8/3/2012		0.20 U	*see SVOC's*	*see SVOC's*	0.50 U	1.0 U	1.0 U	*see VOC's*	*see VOC's*	5.0 U	*see VOC's*
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	0.20 U	0.50 U	0.50 U	0.50 U			*see VOC's*	*see VOC's*		*see VOC's*
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***					**500**	**71**	**4100**	**2900**	**160**	**3400**
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***					**45,000**	190 U	48 U	48 U	**3300**	48 U
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***					**350**	18 U	4.5 U	**6.3**	**60**	**7.0**

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/kg	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	1.0 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	1.0 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	1.0 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	1.0 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank										*see VOC's*
ICS-OUTF-SW-080312	water	8/3/2012		1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	1.0 U
ICS-MH1-SW-080312	water	8/3/2012		1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	1.0 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank										*see VOC's*
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	**23**	**90**	18 U	18 U	18 U	18 U	18 U	**770**	180 U	**5300**
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***	**1900**	**1000**	190 U	190 U	190 U	**220,000**	**790**	3900 U	1900 U	48 U
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***	**33**	**47**	18 U	18 U	18 U	**210**	18 U	**730**	180 U	4.5 U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.10 U	5.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.10 U	5.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.10 U	5.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.10 U	5.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank	*see VOC's*									
ICS-OUTF-SW-080312	water	8/3/2012		0.10 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U
ICS-MH1-SW-080312	water	8/3/2012		0.10 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank	*see VOC's*									
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	**4100**	93 U	**70**	93 U	93 U	**2800**	18 U	**740**	**18**	**20**
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***	**91,000**	970 U	**22,000**	970 U	970 U	190 U	**81,000**	190 U	**360**	190 U
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***	**160**	90 U	**39**	90 U	90 U	18 U	18 U	18 U	18 U	18 U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank										
ICS-OUTF-SW-080312	water	8/3/2012		5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	1.0 U	5.0 U	0.10 U	1.0 U	0.10 U
ICS-MH1-SW-080312	water	8/3/2012		5.0 U	5.0 U	1.0 U	1.0 U	0.10 U	1.0 U	5.0 U	0.10 U	1.0 U	0.10 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank										
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	93 U	93 U	46 U	18 U	**32**	18 U	44 U	**1700**	18 U	**190**
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***	970 U	970 U	480 U	190 U	**640**	**2800**	480 U	**760**	190 U	190 U
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***	90 U	90 U	45 U	18 U	18 U	18 U	45 U	18 U	18 U	18 U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank										
ICS-OUTF-SW-080312	water	8/3/2012		1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	1.0 U	0.20 U	0.10 U
ICS-MH1-SW-080312	water	8/3/2012		1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	**1.1**	0.10 U	1.0 U	0.20 U	0.10 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank										
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	**65**	**2200**	**1700**	**82**	**240**	**3400**	**640**	**900**	**1400**	**500**
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***	**9300**	**340**	**350**	**5600**	190 U	**26,000**	**350**	190 U	390 U	190 U
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***	**640**	18 U	18 U	**120**	18 U	**2000**	18 U	**49**	36 U	18 U

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank									
ICS-OUTF-SW-080312	water	8/3/2012		0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-MH1-SW-080312	water	8/3/2012		0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank									
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	**260**	**44**	**210**	6780	7194	6.0 U	4.0 U	39 U	1.6 U
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank									
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***	190 U	190 U	190 U	92,760	1040				
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***	18 U	18 U	18 U	160	36 U				

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank										
ICS-OUTF-SW-080312	water	8/3/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-MH1-SW-080312	water	8/3/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank										
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***										
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***										

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	5.0 U	0.050 U	0.050 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	5.0 U	0.050 U	0.050 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	5.0 U	0.050 U	0.050 U
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	5.0 U	0.050 U	0.050 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank									*see VOC's*
ICS-OUTF-SW-080312	water	8/3/2012		0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U		0.050 U	0.050 U
ICS-MH1-SW-080312	water	8/3/2012		0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U		0.050 U	0.050 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank									*see VOC's*
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	6.4 U	16 U	3.2 U	3.2 U	6.7 U	2.8 U		**230 J_Q**	1.6 U
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank									
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***								190 U	190 U
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***								**18**	18 U

U = nondetected at the associated lower reporting limit.
J_Q = estimate; due to noncompliant CCV check.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-SEEP1-GW-070512	grd water	7/5/2012		0.010 U	0.010 U	0.025 U	0.075 U	0.010 U	0.010 U	0.010 U	0.075 U
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1	0.010 U	0.010 U	0.025 U	0.075 U	0.010 U	0.010 U	0.010 U	0.075 U
ICS-SEEP2-GW-070512	grd water	7/5/2012		0.010 U	0.010 U	0.032 U	**0.14**	**0.16**	0.010 U	0.010 U	0.30
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank								
ICS-OUTF-SW-080312	water	8/3/2012		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.015 U	0.015 U
ICS-MH1-SW-080312	water	8/3/2012		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank								
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	3.7 U	3.7 U	**31**	**36**	**38**	3.7 U	3.7 U	105
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank								
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***								
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***								

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	gravel > 2000 µm %	very coarse sand 2000 - 1000 µm %	coarse sand 1000 - 500 µm %	medium sand 500 - 250 µm %	fine sand 250 - 125 µm %	very fine sand 125 - 62 µm %	coarse silt 62 - 31 µm %	medium silt 31 - 15.6 µm %	fine silt 15.6 - 7.8 µm %	very fine silt 7.8 - 3.9 µm %	total silt 32 - 3.2 µm %
ICS-SEEP1-GW-070512	grd water	7/5/2012												
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1											
ICS-SEEP2-GW-070512	grd water	7/5/2012												
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank											
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank											
ICS-OUTF-SW-080312	water	8/3/2012												
ICS-MH1-SW-080312	water	8/3/2012												
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank											
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	15.2	23.0	22.5	12.5	6.8	3.7	2.6	6.3	4.6	1.6	15.1
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank											
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***											
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***											

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	clay 3.9 - 2.0 µm %	clay 2.0 - 1.0 µm %	clay < 1.0 µm %	total fines < 62 µm %	2,3,7,8-TCDF 51207-31-9 ng/kg, dry	total TCDF 55722-27-5 ng/kg, dry	2,3,7,8-TCDD 1746-01-6 ng/kg, dry	total TCDD 41903-57-5 ng/kg, dry	1,2,3,7,8-PeCDF 57117-41-6 ng/kg, dry	2,3,4,7,8-PeCDF 57117-31-4 ng/kg, dry	total PeCDF 30402-15-4 ng/kg, dry	1,2,3,7,8-PeCDD 40321-76-4 ng/kg, dry
ICS-SEEP1-GW-070512	grd water	7/5/2012													
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1												
ICS-SEEP2-GW-070512	grd water	7/5/2012													
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank												
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank												
ICS-OUTF-SW-080312	water	8/3/2012													
ICS-MH1-SW-080312	water	8/3/2012													
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank												
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	0.2	0.2	0.8	16.3	**1.54**	25.0	**0.772 J**	6.10	**1.18 J**	**1.77 J**	50.3	**3.67 J**
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank												
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***												
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***												

J = estimate associated with value less than the verifiable lower quantitation limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	total PeCDD 36088-22-9 ng/kg, dry	1,2,3,4,7,8-HxCDF 70648-26-9 ng/kg, dry	1,2,3,6,7,8-HxCDF 57117-44-9 ng/kg, dry	2,3,4,6,7,8-HxCDF 60851-34-5 ng/kg, dry	1,2,3,7,8,9-HxCDF 72918-21-9 ng/kg, dry	total HxCDF 55684-94-1 ng/kg, dry	1,2,3,4,7,8-HxCDD 39227-28-6 ng/kg, dry	1,2,3,6,7,8-HxCDD 57653-85-7 ng/kg, dry	1,2,3,7,8,9-HxCDD 19408-74-3 ng/kg, dry	total HxCDD 34465-46-8 ng/kg, dry
ICS-SEEP1-GW-070512	grd water	7/5/2012											
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1										
ICS-SEEP2-GW-070512	grd water	7/5/2012											
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank										
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank										
ICS-OUTF-SW-080312	water	8/3/2012											
ICS-MH1-SW-080312	water	8/3/2012											
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank										
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	19.6	**4.94 J**	**3.35 J**	**4.78 J**	**1.20 J**	89.1	**5.41**	**17.7**	**12.0**	117
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank										
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***										
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***										

J = estimate associated with value less than the verifiable lower quantitation limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Water & Miscellaneous Analyses, July-August 2012

Field I.D.	Matrix	Collection Date	Comments	1,2,3,4,6,7,8-HpCDF 67562-39-4 ng/kg, dry	1,2,3,4,7,8,9-HpCDF 55673-89-7 ng/kg, dry	total HpCDF 38998-75-3 ng/kg, dry	1,2,3,4,6,7,8-HpCDD 35822-46-9 ng/kg, dry	total HpCDD 37871-00-4 ng/kg, dry	OCDF 39001-02-0 ng/kg, dry	OCDD 3268-87-9 ng/kg, dry	TEQ ND=0 ng/kg, dry	TEQ ND/2 ng/kg, dry
ICS-SEEP1-GW-070512	grd water	7/5/2012										
ICS-DUP1-GW-070512	grd water	7/5/2012	dup of SEEP1									
ICS-SEEP2-GW-070512	grd water	7/5/2012										
ICS-RIN1-GW-070512	water	7/5/2012	rinsate blank									
ICS-TB-01-GW-070512	water	7/5/2012	VOC's trip blank									
ICS-OUTF-SW-080312	water	8/3/2012										
ICS-MH1-SW-080312	water	8/3/2012										
ICS-TB-SW-080312	water	8/3/2012	VOC's trip blank									
ICS-MH1-SE-080312	sediment	8/3/2012	***(organics µg/kg)***	**59.2**	**3.30 J**	155	**364**	677	**126**	**2590**	15.2	15.2
ICS-TB-SE-080312	water	8/3/2012	VOC's trip blank									
ICS-ASH-081312	ash	8/13/2012	***(organics µg/kg)***									
ICS-DUST-081312	dust	8/13/2012	***(organics µg/kg)***									

J = estimate associated with value less than the verifiable lower quantitation limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: January 17, 2013

SUBJECT: Data Evaluation/Assessment for 12 Groundwaters and a NAPL Collected during November 2012 from the ICS / [former] NW Cooperage Site, Seattle, WA

Twelve groundwater samples and a NAPL were collected by Dalton, Olmsted & Fuglevand (DOF) staff during November, 2012 for chemical characterization. All samples were delivered in four delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 31 hours of collection. Samples were received on ice at temperatures between 0.9 and 5.4 degrees C, and maintained at the project laboratory at 4 degrees C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. One blind field duplicate (the pair ICS-DOF-MW6-GW-110912 / ICS-DUP-GW-110912) and a single VOC's trip/transport blank were also submitted and analyzed for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012). All analyses were performed by methods presented in Table SAP-4 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270
chlor. pesticides	SW846-M.8081	SVOC's (PAH's)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. phenols	SW846-M.8041
metals (exc Hg)	SW846-M.6010C & EPA 200.8	Hg	SW846-M.7470
total petroleum HC's	NWTPH-Dx & -G	Cl & SO_4	EPA 300.0

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. Anthracene reported from the analysis of groundwater from DOF-MW8 by M.8270 (full-scan) did not satisfy all identification criteria at a level of 4.4 µg/L due to possible interference, whereas the analysis of the same extract by M.8270-SIM reported anthracene as not detected at 0.10 µg/L (U). The nondetected value is reported in the attached results table. Selected analytes,

such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method and the volatile organic compound (VOC's) method (M.8260). The attached results table reports only the result from the VOC's analyses due to lower reporting limits. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260 (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC-SIM (M.8270-SIM) and chlorinated pesticides (by M.8081) methods, respectively. The lower reporting limit for chlorinated phenols (2,4,6-trichlorophenol and pentachlorophenol) was improved over M.8270 by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and acid cleanup steps.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. Some Aroclors (commercial PCB mixtures) were reported with slightly elevated reporting limits or nondetects due to elevated or busy baselines; specifically for samples DOF-MW6 and its associated blind duplicate. δ-BHC exhibited an elevated reporting limit at 0.22 µg/L (U) in DOF-MW7 due to chemical interference. Lower reporting limits were elevated for some metals in samples from DOF-MW1, HC-B1 and SA-MW3 due to elevated dissolved solids requiring dilutions of digestates. Considerable effort was made by the analysts to achieve the specified lower reporting limits when the sample matrix and chemical interferences would allow it. Analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of the following:

Analyte	Analytical group	Conc. (µg/L)
Hexachlorobutadiene (VOC's)	VS14 (MB1)	ND
	VS14 (MB2)	0.43
	VS49 (MB1)	0.31
	VS49 (MB2)	0.38
n-Butylbenzene (VOC's)	VS14 (MB1)	ND
	VS14 (MB2)	0.10
	VS49 (MB1)	ND
	VS49 (MB2)	0.14

No hexachlorobutadiene (HCBD) was detected in any of the project samples during analyses of VOC's by M.8260. HCBD however was reported in the attached results table from the analyses of chlorinated pesticides by M.8081 due to lowered reporting limits. n-Butylbenzene was detected at 0.23 µg/L in two project samples; just above the reporting limit of 0.20 µg/L. These two results are qualified as estimated with the "J_B" qualifier code to indicate potential positive

bias associated with laboratory background contributions. No other results required qualification due to method blanks performance.

No field equipment **rinsate blank**s were generated nor submitted for determination of potential bias associated with field activities. A single **trip/transport blank** was generated and submitted for analysis and determination of potential contamination during handling of VOC's samples. This sample was analyzed twice with consistent results. Results of these analyses are reported in the attached table. Methylene chloride, acetone and butanone were detected at levels less than the lower verifiable lower quantitation limit (or PQL's). Benzene and alkyl-substituted benzenes were detected and reported in the VOC's field blank at levels greater than the project PQL's. Laboratory method blanks did not show these analytes, indicating possible introduction during field activities and handling. Some positive bias may be associated with these analytes reported in project samples.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. δ-BHC exhibited lower than specified LCS/LCSD recoveries at 35.4% and 34.4% for analytical groups VR88 and VS14. None of the BHC's were detected in any of the project samples. LCS/LCSD recoveries were reported greater than specified for the VOC's 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, 1,2,3-trichlorobenzene and hexachlorobutadiene in the range of 122-152% for analytical group VS49. No associated data required qualification. Chromium (Cr) matrix spike recovery was reported low (70%) in the dissolved phase for DOF-MW6 while the total phase Cr recovery was within specified limits. Nickel (Ni) matrix spike recovery in the total phase for HC-B1 was reported high at 128%, and the MS recovery for sulfate in DOF-MW6 was reported high at 130%. These recoveries are sufficiently close to the specified limits to not require qualification of reported results. No results required qualification of sample results due to unacceptable analyte recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols. Four labeled compounds were utilized for the evaluation of VOC's recovery performance. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM utilized the surrogate compounds d_{10}-2-methylnaphthalene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All surrogate recoveries were within specification, with the exception of *o*-terphenyl at 38.7% in DOF-MW4 in an initial analysis; with a subsequent reextraction and reanalysis yielding an acceptable surrogate recovery. The pesticide surrogate, TCMX, reported a lower than specified recovery at 26.5% in DOF-MW6, whereas the surrogate DCBP exhibited an acceptable recovery. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed occasional [minor] noncompliant responses for pentachlorophenol (PCP by M.8270) in analytical group VS14 and several VOC's analytes in analytical group VS49. PCP was reported from analyses performed by M.8041 that exhibited acceptable QC measurements, and the affected VOC analytes were all reported as nondetected. No results required further qualification due to CCV or CCAL performance.

A single pair of blind **field duplicate** samples were collected and submitted for analysis for the assessment of monitoring variability. A duplicate pair is identified in the attached table of sample results; DOF-MW6 / DUP. Analytes, with the exception of sulfate, exhibited a relative percent difference (RPD) less than or equal to 30. Sulfate exhibited the greatest variability at 0.1 mg/L U (nondetected in the primary sample) and detected at 0.9 mg/L in the blind duplicate. Laboratory duplicate analyses were generally less than 20 RPD (within SAP specifications).

TPH-Dx and TPH-G analyses indicate presence of principally weathered gasoline in two of the locations sampled – DOF-MW6 and DOF-MW7. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present; weathered gasoline.

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data for NAPL and water samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7	
					mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		1222516-VR88A / 1222521-VR88F	**2210**	**323**	2 U	2 U	**2**	**2**	2 U	2 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		1222517-VR88B / 1222522-VR88G	**179**	**1.0**	0.2 U	0.2 U	**2.6**	**4.3**	**0.3**	**0.3**
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		1222518-VR88C / 1222523-VR88H	**217**	**0.8**	0.2 U	0.2 U	**2.0**	**3.1**	0.2 U	**0.2**
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		1222519-VR88D / 1222524-VR88I	**103**	**1.1**	0.2 U	0.2 U	**2**	**3.6**	1 U	**0.3**
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		1222520-VR88E / 1222525-VR88J	**61.9**	**1.0**	0.2 U	0.2 U	0.5 U	**0.7**	0.5 U	0.2 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		1222637-VS14A / 1222642-VS14F	**356**	0.1 U	0.2 U	0.2 U	**0.8**	**1.3**	0.2 U	0.2 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	1222641-VS14E / 1222646-VS14J	**359**	**0.9**	0.2 U	0.2 U	**0.8**	**1.6**	0.2 U	0.2 U
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		1222638-VS14B / 1222643-VS14G	**470**	**2.5**	0.2 U	0.2 U	**1.6**	**1.4**	0.5 U	0.2 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		1222639-VS14C / 1222644-VS14H	**46.0**	**1.5**	0.2 U	**0.5**	**6**	**5.6**	0.5 U	0.2 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		1222640-VS14D / 1222645-VS14I	**2280**	**36.1**	**0.2**	**0.2**	**0.5**	0.5 U	0.2 U	0.2 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		1222838-VS49A / 1222841-VS49D	**3730**	**4.8**	1 U	1 U	**4**	**4**	1 U	1 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		1222839-VS49B / 1222842-VS49E	**4050**	**576**	1 U	1 U	**4**	**3**	1 U	1 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012		1222843-VS49F								
Trip Blank	water		VOC's trip/transport blank	1222840-VS49C								
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*	1223949-VU99A								

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Cadmium 7440-43-9		Calcium 7440-70-2		Chromium 7440-47-3		Copper 7440-50-8		Lead 7439-92-1	
				diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		1 U	1 U	-	**130,000**	5 U	5 U	5 U	**4**	1 U	**2**
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.1 U	0.1 U	-	**15,300**	**47.2**	**68.3**	**5.2**	**22.9**	**0.3**	**1.1**
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.1 U	0.1 U	-	**16,700**	**28.3**	**37.1**	**1.7**	**5.3**	0.1 U	**0.7**
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.1 U	0.1 U	-	**16,000**	**46.0**	**55.5**	**7.4**	**15.1**	**0.4**	**0.9**
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.1 U	0.1 U	-	**7070**	**10.9**	**13.6**	**2.1**	**7.0**	**0.1**	**0.3**
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.1 U	0.1 U	-	**31,400**	**7.7**	**17**	1 U	**6.6**	**0.1**	**1.4**
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	0.1 U	0.1 U	-	**33,300**	**10**	**12.4**	**1.0**	**6.5**	**0.1**	**1.8**
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		0.1 U	0.1 U	-	**36,500**	**10**	**14**	**1.8**	**3.6**	0.1 U	**0.4**
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.1 U	0.1 U	-	**32,400**	**2**	**5**	**0.6**	**3.4**	**0.5**	**13.5**
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.1 U	0.1 U	-	**85,700**	**2.5**	**5**	2 U	**1.0**	0.1 U	**0.6**
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.5 U	0.5 U	-	**126,000**	**6**	**6**	2 U	2 U	0.5 U	0.5 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.5 U	0.5 U	-	**142,000**	**4**	**4**	**4**	**4**	0.5 U	0.5 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012											
Trip Blank	water		VOC's trip/transport blank										
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*										

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Magnesium 7439-95-4		Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Zinc 7440-66-6		Hardness
				diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		-	**170,000**	0.1 U	0.1 U	**8**	**8**	2 U	2 U	40 U	40 U	1000
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		-	**22,100**	0.1 U	0.1 U	**1.7**	**2.1**	1 U	1 U	4 U	**7**	130
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		-	**40,500**	0.1 U	0.1 U	**1.4**	**1.4**	1 U	1 U	4 U	**4**	210
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		-	**24,800**	0.1 U	0.1 U	**1.5**	**1.7**	1 U	1 U	**5**	**5**	140
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		-	**10,900**	0.1 U	0.1 U	**0.8**	**1.0**	0.5 U	1 U	4 U	4 U	63
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		-	**37,800**	0.1 U	0.1 U	**1.7**	**2.3**	0.2 U	0.2 U	4 U	4 U	230
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	-	**39,800**	0.1 U	0.1 U	**1.8**	**2.3**	0.2 U	0.2 U	4 U	4 U	250
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		-	**28,200**	0.1 U	0.1 U	**2**	**2.4**	0.2 U	0.2 U	4 U	4 U	210
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		-	**35,100**	0.1 U	0.1 U	**7**	**7.6**	0.2 U	0.2 U	4 U	**11**	230
ICS-SA-MW2-GW-110912	grd water	11/9/2012		-	**156,000**	0.1 U	0.1 U	**4.7**	**4.1**	0.2 U	0.2 U	4 U	4 U	860
ICS-HC-B1-GW-111312	grd water	11/13/2012		-	**205,000**	0.1 U	0.1 U	**6**	**7**	1 U	1 U	20 U	20 U	1200
ICS-SA-MW3-GW-111312	grd water	11/13/2012		-	**312,000**	0.1 U	0.1 U	**11**	**10**	1 U	1 U	**30**	**30**	1600
ICS-SA-MW1-GW-111312	NAPL	11/13/2012												
Trip Blank	water		VOC's trip/transport blank											
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*											

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Total Petroleum Hydrocarbons **			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane
				Gasoline-range	Diesel-range	Lube-range	74-87-3	74-83-9	75-01-4	75-00-3	75-09-2	67-64-1	75-15-0	75-35-4	75-34-3
				mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.10 J**
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.19 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.15 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.17 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		**0.22 J**	0.10 U	0.20 U	0.50 U	1.0 U	**0.33**	**0.65**	1.0 U	5.0 U	**1.6**	0.20 U	**0.14 J**
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	**0.25 J**	0.10 U	0.20 U	0.50 U	1.0 U	**0.37**	**0.74**	1.0 U	5.0 U	**1.6**	0.20 U	**0.14 J**
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		**0.50**	0.41	0.20 U	0.50 U	1.0 U	**2.1**	**4.8**	**0.59 J**	5.0 U	**0.61**	0.20 U	**1.2**
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.89**	**3.3**	1.0 U	5.0 U	**0.74**	0.20 U	**0.45**
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**3.7 J**	0.20 U	0.20 U	0.20 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012													
Trip Blank	water		VOC's trip/transport blank				0.50 U	1.0 U	0.20 U	0.20 U	**0.64 J**	**3.8 J**	0.20 U	0.20 U	0.20 U
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*												

*** bold-typed values resemble corresponding petroleum hydrocarbon mixture*

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	*trans* -1,2-Dichloroethene 156-60-5 µg/L	*cis* -1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L	1,2-Dichloroethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Trichloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromodichloromethane 75-27-4 µg/L	1,2-Dichloropropane 78-87-5 µg/L	*cis* -1,3-Dichloropropene 10061-01-5 µg/L	Trichloroethene 79-01-6 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	**0.15 J**	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		**0.34**	**0.22**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	**0.34**	**0.24**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		**0.36**	**25**	**0.16 J**	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.79**
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		**0.40**	**0.42**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.20 U	**0.16 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012												
Trip Blank	water		VOC's trip/transport blank	0.20 U	0.20 U	0.20 U	0.20 U	**0.98 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*											

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	**3.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.5**	**13**
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	0.20 U	0.20 U	**3.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.5**	**13**
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	**1.7**	0.20 U	0.20 U	5.0 U	5.0 U	**0.43**	0.20 U	**28**	**0.14 J**
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	**61**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**2.6**	**0.81**
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012												
Trip Blank	water		VOC's trip/transport blank	0.20 U	0.20 U	**0.91**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**5.0**	0.20 U
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*											

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		**2.7**	0.20 U	0.20 U	0.20 U	**1.8**	**1.5**	**0.67**	**3.6**	**22**	5.0 U	0.20 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	**2.7**	0.20 U	0.20 U	0.20 U	**1.8**	**1.5**	**0.71**	**3.6**	**22**	5.0 U	0.20 U
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		**21**	**1.7**	0.20 U	0.20 U	**51**	**18**	**0.36**	0.20 U	**0.12 J**	5.0 U	0.20 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		**2.0**	0.20 U	0.20 U	0.20 U	**7.6**	**1.3**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		**0.20**	0.20 U	0.20 U	0.20 U	**0.25 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012												
Trip Blank	water		VOC's trip/transport blank	**0.65**	0.20 U	0.20 U	0.20 U	**2.9**	**1.4**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*											

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	1,1-Dichloro-propene 563-58-6 µg/L	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans* -1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**1.5**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**1.5**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	**1.8**	**5.2**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.29**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.16 J**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012												
Trip Blank	water		VOC's trip/transport blank	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**1.3**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*											

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U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		**0.33**	**0.37**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.28**	**0.23 J_B**	**0.27 J**	0.50 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	**0.33**	**0.36**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.26**	0.20 U	**0.29 J**	0.50 U
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		**0.50**	**0.53**	0.20 U	0.20 U	0.20 U	0.20 U	**0.23**	**0.35**	**0.23 J_B**	**1.3**	**0.39 J**
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		**0.45**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012												
Trip Blank	water		VOC's trip/transport blank	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*											

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value may be biased high due to contribution from laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		**2.1**	1.0 U	2.0 U	1.0 U	**8.9**	1.0 U	2.0 U	1.0 U	1.0 U	**8.5**	20 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012												
Trip Blank	water		VOC's trip/transport blank											
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*											

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		3.0 U	**0.48**	3.0 U	**1.4**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**0.11**
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	3.0 U	**0.40**	3.0 U	**0.8 J**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**0.09 J**
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		3.0 U	**1.7**	3.0 U	**59**	0.25 U	5.0 U	1.0 U	1.0 U	**0.10 J**	**0.48**
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		3.0 U	**0.10**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	**0.07 J**	0.10 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		3.0 U	**0.06 J**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**0.10 J**
ICS-HC-B1-GW-111312	grd water	11/13/2012		3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012											
Trip Blank	water		VOC's trip/transport blank										
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*										

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	**0.22**	1.0 U	0.25 U	**0.12**
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	**0.16**	1.0 U	0.25 U	**0.11**
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		**0.06 J**	3.0 U	3.0 U	1.0 U	1.0 U	**0.40**	1.0 U	**240**	**0.48**
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	**0.76**	0.10 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012										
Trip Blank	water		VOC's trip/transport blank									
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*									

J = estimate associated with value less than the verifiable lower quantitation limit.
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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	**1.6 J**	0.10 U	1.0 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		1.0 U	**0.07 J**	1.0 U	**0.09 J**	**0.08 J**	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012											
Trip Blank	water		VOC's trip/transport blank										
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*										

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	total Benzo-fluoranthenes	Benzo(a)-pyrene 50-32-8	Indeno(1,2,3-cd)pyrene 193-39-5	Dibenz(a,h)-anthracene 53-70-3	Benzo(g,h,i)-perylene 191-24-2	LPAH	HPAH	alpha-BHC 319-84-6	beta-BHC 319-85-7	delta-BHC 319-86-8
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.93	0.20 U	0.050 U	0.050 U	0.050 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.76	0.20 U			
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	3.23	0.17	0.050 U	0.050 U	0.22 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.17	0.20 U	0.050 U	0.050 U	0.050 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.16	0.20 U	0.050 U	0.050 U	0.050 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.050 U	0.050 U	0.050 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012											
Trip Blank	water		VOC's trip/transport blank										
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*										

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6										
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012											
Trip Blank	water		VOC's trip/transport blank										
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*										

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6									
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.10 U	0.10 U	0.50 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
ICS-SA-MW1-GW-111312	NAPL	11/13/2012										
Trip Blank	water		VOC's trip/transport blank									
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*									

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater & NAPL Analyses, November 2012

Field I.D.	Matrix	Collection Date	Comments	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L	
ICS-DOF-MW1-GW-110812	grd water	11/8/2012		0.010 U	0.010 U	**0.12**	**0.16**	**0.14**	0.010 U	0.010 U	0.42	
ICS-DOF-MW2-GW-110812	grd water	11/8/2012		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
ICS-DOF-MW3-GW-110812	grd water	11/8/2012		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
ICS-DOF-MW4-GW-110812	grd water	11/8/2012		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
ICS-DOF-MW5-GW-110812	grd water	11/8/2012		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
ICS-DOF-MW6-GW-110912	grd water	11/9/2012		0.010 U	0.010 U	0.12 U	0.062 U	**0.068**	0.010 U	0.010 U	0.12 U	
ICS-DUP-GW-110912	grd water	11/9/2012	dup. of DOF-MW6	0.010 U	0.010 U	0.088 U	0.050 U	**0.052**	0.010 U	0.010 U	0.088 U	
ICS-DOF-MW7-GW-110912	grd water	11/9/2012		0.010 U	**0.10**	0.010 U	**0.028**	**0.012**	0.010 U	0.010 U	0.14	
ICS-DOF-MW8-GW-110912	grd water	11/9/2012		0.010 U	0.010 U	**0.033**	**0.029**	**0.017**	0.010 U	0.010 U	0.079	
ICS-SA-MW2-GW-110912	grd water	11/9/2012		0.010 U	**0.063**	0.010 U	**0.036**	**0.016**	0.010 U	0.010 U	0.12	
ICS-HC-B1-GW-111312	grd water	11/13/2012		0.010 U	**0.052**	0.010 U	0.012 U	0.010 U	0.010 U	0.010 U	0.052	
ICS-SA-MW3-GW-111312	grd water	11/13/2012		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
ICS-SA-MW1-GW-111312	NAPL	11/13/2012										
Trip Blank	water		VOC's trip/transport blank									
ICS-SA-MW1-NAPL-112712	NAPL	11/27/2012	*results in µg/kg*	100,000 U	100,000 U	**1,000,000**	**470,000**	**200,000**	100,000 U	100,000 U	1,670,000	µg/kg

U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: January 18, 2013

SUBJECT: Data Evaluation/Assessment for 41 Subsurface Sediment Samples Collected during November-December 2012 from the ICS / [former] NW Cooperage Site, Seattle, WA

Seventy subsurface sediment samples were collected from 13 sediment cores by Dalton, Olmsted & Fuglevand (DOF) staff during November 26-30 and December 10 of 2012 for the evaluation of sediment quality. All sediment samples were delivered in four delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within nine days of collection. Samples held for up to nine days were received at temperatures between 0.6 and 4.0 degrees C, and one sample received within an hour of collection was received at ambient temperature. All samples were maintained at the project laboratory at 4 degrees C prior to analyses. No chemical preservatives were specified nor required.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012). All analyses were performed by methods presented in Table SAP-3 of the SAP.

grain size	ASTM D422/D421	Atterberg limits	ASTM D4318
bulk density	ASTM D7263	moisture content	ASTM D2216
TOC	Plumb, 1981 (PSEP)	SVOC's	SW846-M.8270
SVOC's (selected)	M.8270D-SIM	chlor. pesticides	SW846-M.8081
PCB's as Aroclors	SW846-M.8082	metals (exc Hg)	SW846-M.6020A
TBT	Krone/8270-SIM	Hg	SW846-M.7471A
total petroleum HC's	NWTPH-Dx		

Atterberg limits are not reported in the attached data/results table. Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and selected analytes were further analyzed and reported from analyses performed in the (M.8270D) SIM (selected ion monitoring) mode to improve/lower the reporting limits. These selected analytes include 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine (as diphenylamine), benzyl alcohol, butylbenzylphthalate, and pentachlorophenol. Results for detected analytes were reported from the full-scan analyses or from the mode that yielded non-

qualified data. For nondetected analytes, the lowest reporting limit between the two analytical modes was reported in the attached results table; generally from the SIM mode of analyses.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications.

Generally, [lower] **reporting limits** were consistent with specified-limits presented in the SAP (table SAP-3) and achieved the sediment PQL goals when contaminant levels allowed it. Exceptions are noted principally for organic compound analytes due to presence of chemical interferents and elevated levels of other target analytes. Specifically, samples B-SE-3, G-SE-5, I-SE-3, and DSS-01-SE required extract dilutions due to elevated levels of organic contaminants resulting in the elevation of some analyte nondetection reporting limits. Sample G-SE-5, for example, exhibited elevated levels of both target analytes and petroleum hydrocarbons necessitating extract dilutions in order to prevent instrumental overloading. Most of the elevated nondetects for the chlorinated pesticides are due to chemical interferences and elevated PCB's for samples B-SE-3, G-SE-5, H-SE-3, and DSS-01-SE. Considerable effort was made by the analysts to achieve the specified lower reporting limits when the sample matrix and chemical interferences would allow it. Analyte concentrations reported at less than the lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of *bis*(2-ethylhexyl)phthalate in three analytical groups at 26, 44, and 15 µg/kg, and 1,3-dichlorobenzene in group VV01 by M.8270-SIM at 6.3 µg/kg. *bis*(2-Ethylhexyl)phthalate and 1,3-dichlorobenzene results were qualified as estimated with potential positive bias with the "J_B" qualifier code when results have the potential to be significantly impacted by laboratory background levels. *bis*(2-Ethylhexyl)phthalate and 1,3-dichlorobenzene values were qualified as estimated when the results were less than or equal to 2x the associated method blank values. Seventeen sample results were sufficiently low to require "J_B" qualification. No other data required qualification due to method blanks performance.

No field equipment **rinsate blanks** were specified in the project SAP nor were any collected.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. Some recoveries were nonevaluable due to high native levels of analyte interfering with [low] spike levels, such as lead (Pb), nickel (Ni), and zinc (Zn) in sample DSS-01-SE. δ-BHC recoveries were typically reported lower than specified for LCS/LCSD's at 52.5%, 52.0%, 38.8% and 39.2%. MS/MSD recoveries for δ-BHC were within acceptable limits with the exception of a single pair in sample M-SE-3 at 39.4% and 42.0%. No δ-BHC or any other BHC's were detected in any project samples; no associated results required qualification. Endrin aldehyde exhibited the lowest MS/MSD recoveries in sample F-SE-8 outside advisory limits at 41.3% and 39.9%. LCS/LCSD recoveries for endrin aldehyde are

within specification. No significant adverse effect on data quality is anticipated as a consequence – no endrin aldehyde was detected in any project samples. The MS recovery for TOC was outside of specification high in H-SE-4 at 133.7% - no significant adverse effect on sample results is expected. MS recoveries for metals in sample DSS-01-SE are highly variable (from nonmeasurable for lead due to high native levels and up to 170% in the case of chromium) and attributed to the high heterogeneity of the sample matrix. Variability associated with duplicate analyses for DSS-01-SE exhibited RPD's up to 120 in the case of silver, and 87.5 for copper. Antimony (Sb) matrix spike recoveries are reported consistently low in samples A-SE-4, H-SE-4, and DSS-01-SE at 2.1%, 4.7% and 20.8%, respectively. Sb LCS recoveries are determined to be acceptable. This behavior for Sb is typical due to formation of Sb-SiO_4 complexes in the presence of soil minerals; however, positive hits for Sb are thus qualified with the "J_R" qualifier code to indicate results are considered estimates (biased low) due to low matrix spike recoveries. Recoveries of spike analytes for all analyses were determined to be acceptable, with the exceptions noted above for antimony, requiring qualification of associated results as estimates with the "J_R" code.

Surrogate compound recoveries (for organic analytes) were evaluated for SVOC's, TPH-Dx, tributyl tin, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), and PCB's. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance. Tributyl tin recovery performance is evaluated by the use of tripropyl and tripentyl tin chlorides. *o*-Terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC (M.8270 full scan) recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds, while the SIM analyses recoveries were evaluated with the surrogates 2-fluorophenol and d_{14}-*p*-terphenyl. All surrogate compound performances were within specification with some minor exceptions. The PCB's surrogate, TCMX, in J-SE-5 reported 116%, which does not adversely affect the nondetected results for the sample. The PCB's surrogate, DCBP, in L-SE-2 reported 136%, which is attributed to small additional contributions from elevated levels of [native] Aroclor 1260 (Aroclor 1260 contains small amounts of DCBP). The TPH-Dx surrogate, *o*-terphenyl, exhibited slightly low recoveries (46.7%) in sample M-SE-2 (acceptance range = 50-150% recovery). The analytical group (VV10) MS/MSD performance for TPH-Dx was evaluated on M-SE-2, which yielded acceptable and within specification recoveries. Consequently, the noncompliant (slightly low) surrogate recovery is considered sufficiently minor to not require qualification of associated TPH-Dx results. No qualification of results was required due to surrogate compounds performance.

SVOC continuing calibration verification (CCV) checks revealed lowered responses for phenol (VV01 & VV10), 2-methylphenol (VV01 & VV10), 4-methylphenol (VV10), N-nitrosodi-n-propylamine (VV01 & VV10), isophorone (VV01), and carbazole (VV01), and elevated responses for 2,4,5-trichlorophenol (VV01 & VV10), benzyl alcohol (VW14), benzoic acid (VW14) and pentachlorophenol (VV01, VV10 & VW14 by M.8270-SIM). Reported data for <u>detected</u> analytes associated with noncompliant CCV's are qualified as estimates with the "J_Q" code, even though the data quality by other measures, such as LCS/LCSD and MS/MSD performance, is within acceptance limits. Affected [detected] results are for phenol, 4-methylphenol and pentachlorophenol in selected samples. The closing DDT breakdown/degradation check for group VV01 was noncompliant, while the closing DDT

CCV/CCAL was within specification. This is expected to have minimal adverse effect on data quality for the DDT class of analytes.

Two pairs of blind **field duplicate** samples were collected and submitted for analyses for the assessment of monitoring variability for TOC, metals and total PCB's. Duplicate pairs are identified in the attached table of sample results. Variability in terms of relative percent difference (RPD) for all parameters generally averaged less than 20% for duplicate pairs. Greatest RPDs (up to 24 & 39) were observed for total PCB's. Laboratory duplicate analyses were generally less than 20 RPD (within SAP specifications) for all parameters, with the exception of metals in sample DSS-01-SE. DSS-01-SE exhibited high replicate variability for metals (replicate analyses were not performed for other parameters); metals exceeding an RPD of 20 are Cr at 64.6 RPD, 87.5 for Cu, 51.9 for Ni and 120 for silver (0.2 mg/kg U and 0.8 mg/kg for Ag). Sample DSS-01-SE exhibits unusually high heterogeneity. Grain size triplicate analyses yielded acceptable performance.

TPH-Dx analyses indicate the principal recognizable pattern is associated with unresolved complex mixtures (UCM's) typically associated with weathered diesel fuel (or heating oil) and lubricant petroleum hydrocarbons. Bold type values are associated with the patterns that most likely identify the hydrocarbon mixture present, such as [weathered] diesel fuel and/or motor/lubricant oil. No unweathered or moderately weathered diesel fuel patterns were found, only <u>severely</u> weathered diesel range and lubricant-like hydrocarbons were found and highlighted in bold in the attached results table.

Dual-column analyses were performed for chlorinated pesticides (M.8081) and PCB's (M.8082), as specified. Variability in responses between the two columns is specified to be less than 40% RPD for compound identification and assignment. In some cases, however, the analyst has determined that the analyte is likely present, even though the variability in responses exceeds the criterion of < 40%. 4,4'-DDE was determined to be likely present and at estimated concentrations for several project samples, even though the 40%-criterion was not met. In these cases, estimated concentrations (by M.8081) of DDE are reported in the attached results table with the associated "J_P" qualifier code.

Excess variability was exhibited in the total solids determinations for sample G-SE-6. Three separate determinations of total solids reported 57.1% (for SVOC's), 62.8% (for metals) and 80.1% (for conventionals/TOC). The mean for the SVOC's and metals determinations of 60% is reported in the attached results table. A potential inconsistency was observed in the fluoranthene and pyrene relative concentrations for sample G-SE-5. A review of the laboratory instrumental raw data indicates the concentrations are accurately reported based on the instrumental responses.

Sample results reported here are determined to be in general compliance with method and SAP requirements. Most deviations of data quality from SAP and method specifications are associated with generally elevated levels of multiple contaminants in site sediments. All reported data for sediment samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Wet density	Moisture content	Dry density	TOC	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3
					%	lb/ft^3	%	lb/ft^3	%	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-A-SE-1-112612	sediment	11/26/2012	mid = 0.4'	1223977-VV01U										
ICS-A-SE-2-112612	sediment	11/26/2012	mid = 1.3'	1223970-VV01N	76				1.37	0.3 U	**11.5**	0.3 U	**0.3**	**19.5**
ICS-A-SE-3-112612	sediment	11/26/2012	mid = 2.7'	1223978-VV01V										
ICS-A-SE-4-112612	sediment	11/26/2012	mid = 3.9'	1223957-VV01A	61				2.77	0.3 U	**9.7**	**0.4**	**0.2**	**21.5**
ICS-A-SE-5-112612	sediment	11/26/2012	mid = 5.1'	1223958-VV01B	66				1.61	0.3 U	**6.5**	**0.5**	0.1 U	**22**
ICS-A-SE-6-112612	sediment	11/26/2012	mid = 6.3'	1223979-VV01W										
ICS-A-SE-7-112612	sediment	11/26/2012	mid = 7.2'	1223980-VV01X										
ICS-B-SE-1-112712	sediment	11/27/2012	mid = 1.1'	1223971-VV01O	65				0.775	0.3 U	**19.8**	0.3 U	0.2 U	**22.7**
ICS-B-SE-2-112712	sediment	11/27/2012	mid = 2.2'	1223981-VV01Y										
ICS-B-SE-3-112712	sediment	11/27/2012	mid = 3.3'	1223959-VV01C	49				3.96	**0.8 J_R**	**31.1**	0.4 U	**5.4**	**153**
ICS-B-SE-4-112712	sediment	11/27/2012	mid = 4.4'	1223982-VV01Z										
ICS-B-SE-5-112712	sediment	11/27/2012	mid = 5.5'	1223960-VV01D	61				3.64	0.3 U	**7.7**	**0.5**	**0.2**	**24**
ICS-B-SE-6-112712	sediment	11/27/2012	mid = 6.6'	1223983-VV01AA		100.6	65.8	60.7						
ICS-C-SE-1-112712	sediment	11/27/2012	mid = 0.5'	1223984-VV01AB										
ICS-C-SE-2-112712	sediment	11/27/2012	mid = 2.3'	1223972-VV01P	73				0.894	0.3 U	**5.6**	0.3 U	0.1 U	**11.0**
ICS-C-SE-3-112712	sediment	11/27/2012	mid = 3.3'	1223961-VV01E	62				2.29	0.3 U	**7.3**	**0.4**	**0.1**	**18.9**
ICS-C-SE-4-112712	sediment	11/27/2012	mid = 4.4'	1223962-VV01F	80				1.57	0.2 U	**4.1**	0.2 U	0.1 U	**10.8**
ICS-D-SE-1-112712	sediment	11/27/2012	mid = 0.7'	1223985-VV01AC										
ICS-D-SE-2-112712	sediment	11/27/2012	mid = 2.1'	1223973-VV01Q	66				6.91	**1.1 J_R**	**15.1**	0.3 U	**8.8**	**431**
ICS-D-SE-3-112712	sediment	11/27/2012	mid = 3.8'	1223963-VV01G	65				2.07	0.3 U	**8.7**	**0.4**	**0.2**	**25**
ICS-D-SE-4-112712	sediment	11/27/2012	mid = 5.3'	1223964-VV01H	62				2.70	0.3 U	**8.8**	**0.6**	**0.2**	**27**
ICS-D-SE-5-112712	sediment	11/27/2012	mid = 6.7'	1223986-VV01AD										
ICS-F-SE-1-112712	sediment	11/27/2012	mid = 0.5'	1223987-VV01AE										
ICS-F-SE-2-112712	sediment	11/27/2012	mid = 1.7'	1223988-VV01AF										
ICS-F-SE-3-112712	sediment	11/27/2012	mid = 3.1'	1223989-VV01AG										
ICS-F-SE-3-121012	sediment	12/10/2012	mid = 3.1'	1224451-VV82A		99.5	70.8	58.3						
ICS-F-SE-4-112712	sediment	11/27/2012	mid = 4.5'	1223990-VV01AH										
ICS-F-SE-5-112712	sediment	11/27/2012	mid = 5.8'	1223974-VV01R	60				2.67	0.3 U	**11.2**	**0.5**	**0.2**	**24.4**
ICS-F-SE-6-112712	sediment	11/27/2012	mid = 7.0'	1223991-VV01AI										
ICS-F-SE-7-112712	sediment	11/27/2012	mid = 8.3'	1223965-VV01I	66				1.26	0.3 U	**5.8**	**0.4**	0.1 U	**18.4**
ICS-F-SE-8-112712	sediment	11/27/2012	mid = 9.7'	1223966-VV01J	76	115.7	28.5	90.1	0.436	0.3 U	**2.0**	0.3 U	0.1 U	**12.2**
ICS-F-SE-9-112712	sediment	11/27/2012	mid = 10.9'	1223992-VV01AJ										
ICS-G-SE-1-112812	sediment	11/28/2012	mid = 0.6'	1223993-VV01AK										
ICS-G-SE-2-112812	sediment	11/28/2012	mid = 1.8'	1223994-VV01AL										
ICS-G-SE-3-112812	sediment	11/28/2012	mid = 3.0'	1223975-VV01S	63				1.78	0.3 U	**11.9**	**0.5**	**0.5**	**23.7**
ICS-DUP1-SE-112812	sediment	11/28/2012	dup. of G-SE-3	1224067-VV10Q	61				1.32	0.3 U	**10.1**	**0.5**	**0.5**	**22.5**
ICS-G-SE-4-112812	sediment	11/28/2012	mid = 4.1'	1223995-VV01AM										
ICS-G-SE-5-112812	sediment	11/28/2012	mid = 5.1'	1223967-VV01K	58				1.85	0.3 U	**24.9**	**0.4**	**2.6**	**112**
ICS-G-SE-6-112812	sediment	11/28/2012	mid = 6.8'	1223968-VV01L	60				1.60	0.3 U	**11.6**	**0.5**	**0.3**	**23.0**
ICS-H-SE-1-112812	sediment	11/28/2012	mid = 0.4'	1223996-VV01AN										
ICS-H-SE-2-112812	sediment	11/28/2012	mid = 1.7'	1223976-VV01T	79				2.00	0.2 U	**4.7**	**0.3**	**0.5**	**59.7**
ICS-H-SE-3-112812	sediment	11/28/2012	mid = 3.3'	1223969-VV01M	69				3.41	0.2 U	**7.2**	0.2 U	**1.3**	**96.4**

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Wet density	Moisture content	Dry density	TOC	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3
					%	lb/ft^3	%	lb/ft^3	%	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-H-SE-4-112812	sediment	11/28/2012	mid = 4.7'	1224051-VV10A	74				0.856	0.3 U	**2.7**	0.3 U	0.1 U	**14.0**
ICS-I-SE-1-112812	sediment	11/28/2012	mid = 0.9'	1224069-VV10S										
ICS-I-SE-2-112812	sediment	11/28/2012	mid = 2.6'	1224062-VV10L	70				3.13	**0.3**	**10.1**	**0.3**	**0.4**	**24.9**
ICS-I-SE-3-112812	sediment	11/28/2012	mid = 4.2'	1224052-VV10B	58	96.2	84.7	52.1	2.28	0.3 U	**6.6**	**0.4**	**0.2**	**18.4**
ICS-I-SE-4-112812	sediment	11/28/2012	mid = 5.9'	1224070-VV10T										
ICS-I-SE-5-112812	sediment	11/28/2012	mid = 7.8'	1224053-VV10C	67	114	35.6	84.1	1.02	0.3 U	**5.1**	0.3 U	0.1 U	**14.4**
ICS-I-SE-6-112812	sediment	11/28/2012	mid = 9.5'	1224071-VV10U										
ICS-J-SE-1-112812	sediment	11/28/2012	mid = 0.8'	1224072-VV10V										
ICS-J-SE-2-112812	sediment	11/28/2012	mid = 2.6'	1224073-VV10W										
ICS-J-SE-3-112812	sediment	11/28/2012	mid = 4.9'	1224063-VV10M	56				2.31	0.4 U	**26.0**	**0.5**	**2.2**	**64.4**
ICS-J-SE-4-112812	sediment	11/28/2012	mid = 6.8'	1224074-VV10X										
ICS-J-SE-5-112812	sediment	11/28/2012	mid = 8.5'	1224054-VV10D	67				1.33	0.3 U	**5.6**	**0.3**	0.1 U	**15.3**
ICS-J-SE-6-112812	sediment	11/28/2012	mid = 10.4'	1224055-VV10E	63				1.55	0.3 U	**7.2**	**0.4**	0.1 U	**17.8**
ICS-K-SE-1-113012	sediment	11/30/2012	mid = 0.7'	1224075-VV10Y										
ICS-K-SE-2-113012	sediment	11/30/2012	mid = 2.2'	1224064-VV10N	57				2.37	0.3 U	**11.3**	0.3 U	**2.5**	**52.4**
ICS-DUP2-SE-113012	sediment	11/30/2012	dup. of K-SE-2	1224068-VV10R	57				2.03	0.3 U	**12.6**	0.3 U	**1.5**	**59.3**
ICS-K-SE-3-113012	sediment	11/30/2012	mid = 3.8'	1224076-VV10Z										
ICS-K-SE-4-113012	sediment	11/30/2012	mid = 5.5'	1224056-VV10F	60				2.31	0.3 U	**21.0**	**0.4**	**1.6**	**45.2**
ICS-K-SE-5-113012	sediment	11/30/2012	mid = 7.0'	1224057-VV10G	73				1.83	0.3 U	**6.9**	**0.3**	0.1 U	**14.9**
ICS-L-SE-1-113012	sediment	11/30/2012	mid = 0.7'	1224077-VV10AA										
ICS-L-SE-2-113012	sediment	11/30/2012	mid = 1.9'	1224065-VV10O	74				1.66	0.3 U	**6.3**	0.3 U	**0.4**	**23.6**
ICS-L-SE-3-113012	sediment	11/30/2012	mid = 3.5'	1224058-VV10H	62				1.55	0.3 U	**7.1**	**0.3**	**0.3**	**17.9**
ICS-L-SE-4-113012	sediment	11/30/2012	mid = 5.0'	1224059-VV10I	70				1.44	0.3 U	**6.2**	**0.3**	0.1 U	**18.4**
ICS-L-SE-5-113012	sediment	11/30/2012	mid = 6.7'	1224078-VV10AB										
ICS-M-SE-1-113012	sediment	11/30/2012	mid = 0.6'	1224066-VV10P	66				2.55	0.3 U	**7.7**	**0.3**	**0.4**	**21.7**
ICS-M-SE-2-113012	sediment	11/30/2012	mid = 1.6'	1224060-VV10J	84				2.95	0.2 U	**2.9**	0.2 U	0.1 U	**13.0**
ICS-M-SE-3-113012	sediment	11/30/2012	mid = 2.7'	1224061-VV10K	80				0.283	0.2 U	**1.1**	0.2 U	0.1 U	**8.9**
ICS-DSS-01-SE-121012	sediment	12/10/2012	surface	1224655-VW14A	77				2.65	**0.5 J_R**	**61.1**	0.2 U	**0.3**	**35.2**

J_R = estimate; due to low matrix spike recovery. Value likely biased low.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Copper 7440-50-8 mg/kg, dry	Lead 7439-92-1 mg/kg, dry	Mercury 7439-97-6 mg/kg, dry	Nickel 7440-02-0 mg/kg, dry	Silver 7440-22-4 mg/kg, dry	Zinc 7440-66-6 mg/kg, dry	Total Petroleum Hydrocarbons ** Diesel-range mg/kg, dry	Total Petroleum Hydrocarbons ** Lube-range mg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry
ICS-A-SE-1-112612											
ICS-A-SE-2-112612	**427**	**86.7**	**0.24**	**15.8**	0.3 U	**111**	**180**	**450**			
ICS-A-SE-3-112612											
ICS-A-SE-4-112612	**42.8**	**10.3**	**0.17**	**20.5**	0.3 U	**61**	32	**52**	**72 J_Q**	20 U	**4.9 J_B**
ICS-A-SE-5-112612	**33.7**	**10.6**	**0.12**	**17.9**	0.3 U	**52**	29	**43**	**34 J_Q**	19 U	4.8 U
ICS-A-SE-6-112612											
ICS-A-SE-7-112612											
ICS-B-SE-1-112712	**34.8**	**14.9**	**0.04**	**26.6**	0.3 U	**80**	29	**56**			
ICS-B-SE-2-112712											
ICS-B-SE-3-112712	**169**	**796**	**13.1**	**29**	**0.5**	**670**	**6700**	**7600**	**60 J_Q**	57 U	**94**
ICS-B-SE-4-112712											
ICS-B-SE-5-112712	**43.1**	**12.4**	**0.13**	**21.3**	0.3 U	**65**	39	**75**	**37 J_Q**	20 U	**20**
ICS-B-SE-6-112712											
ICS-C-SE-1-112712											
ICS-C-SE-2-112712	**36.0**	**13.1**	**0.04**	**8.3**	0.3 U	**31**	**34**	**57**			
ICS-C-SE-3-112712	**34.0**	**7.9**	**0.12**	**18.1**	0.3 U	**53**	27	**39**	**17 J**	18 U	**3.0 J**
ICS-C-SE-4-112712	**11.0**	**8.0**	**0.03**	**7.3**	0.2 U	**26**	20	**41**	20 U	20 U	**47**
ICS-D-SE-1-112712											
ICS-D-SE-2-112712	**254**	**4430**	**38.8**	**43.9**	**0.4**	**3240**	**12,000**	**9900**			
ICS-D-SE-3-112712	**41.3**	**28.3**	**2.05**	**21.1**	0.3 U	**79**	39	**64**	**24 J_Q**	19 U	**3.0 J**
ICS-D-SE-4-112712	**47.7**	**10.6**	**0.14**	**24.3**	0.3 U	**68**	27	**44**	**21 J_Q**	20 U	5.0 U
ICS-D-SE-5-112712											
ICS-F-SE-1-112712											
ICS-F-SE-2-112712											
ICS-F-SE-3-112712											
ICS-F-SE-3-121012											
ICS-F-SE-4-112712											
ICS-F-SE-5-112712	**50.9**	**17.4**	**0.17**	**22.7**	0.3 U	**66**	**40**	**49**			
ICS-F-SE-6-112712											
ICS-F-SE-7-112712	**33.7**	**11.5**	**0.09**	**17.9**	0.3 U	**54**	17	26	**13 J**	20 U	4.9 U
ICS-F-SE-8-112712	**14.2**	**2.1**	**0.02**	**10.8**	0.3 U	**28**	6.5 U	13 U	18 U	18 U	4.6 U
ICS-F-SE-9-112712											
ICS-G-SE-1-112812											
ICS-G-SE-2-112812											
ICS-G-SE-3-112812	**41.7**	**22.5**	**0.20**	**22.0**	**0.4**	**91**	**85**	**140**			
ICS-DUP1-SE-112812	**39.3**	**20.4**	**0.21**	**21.2**	**0.4**	**84**	**82**	**130**			
ICS-G-SE-4-112812											
ICS-G-SE-5-112812	**141**	**1340**	**0.49**	**49.0**	**0.6**	**840**	**6700**	**9600**	110 U	110 U	**38 J_B**
ICS-G-SE-6-112812	**65.3**	**33.9**	**0.20**	**24.2**	0.3 U	**81**	**73**	**120**	**18 J**	19 U	4.8 U
ICS-H-SE-1-112812											
ICS-H-SE-2-112812	**46.9**	**168**	**0.39**	**32.8**	0.2 U	**149**	**300**	**580**			
ICS-H-SE-3-112812	**61.3**	**936**	**4.85**	**19.8**	0.2 U	**377**	**1400**	**2000**	**20 J**	26 U	**210**

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Copper 7440-50-8 mg/kg, dry	Lead 7439-92-1 mg/kg, dry	Mercury 7439-97-6 mg/kg, dry	Nickel 7440-02-0 mg/kg, dry	Silver 7440-22-4 mg/kg, dry	Zinc 7440-66-6 mg/kg, dry	Total Petroleum Hydrocarbons ** Diesel-range mg/kg, dry	Total Petroleum Hydrocarbons ** Lube-range mg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry
ICS-H-SE-4-112812	**18.1**	**6.5**	**0.04**	**10.5**	0.3 U	**37**	28	**50**	19 U	19 U	**10**
ICS-I-SE-1-112812											
ICS-I-SE-2-112812	**37.3**	**123**	**1.77**	**17.3**	0.2 U	**109**	**290**	**560**			
ICS-I-SE-3-112812	**41.4**	**25.4**	**0.30**	**16.6**	0.3 U	**60**	**76**	**130**	57 U	57 U	14 U
ICS-I-SE-4-112812											
ICS-I-SE-5-112812	**34.7**	**18.8**	**0.14**	**12.5**	0.3 U	**40**	250	**460**	18 U	18 U	4.6 U
ICS-I-SE-6-112812											
ICS-J-SE-1-112812											
ICS-J-SE-2-112812											
ICS-J-SE-3-112812	**61.1**	**224**	**0.29**	**20.2**	**0.9**	**201**	**1600**	**1400**			
ICS-J-SE-4-112812											
ICS-J-SE-5-112812	**25.3**	**13.7**	**0.11**	**13.1**	0.3 U	**44**	33	**62**	**13 J**	19 U	4.7 U
ICS-J-SE-6-112812	**43.6**	**22.4**	**0.11**	**16.3**	0.3 U	**56**	**41**	**58**	**10 J**	19 U	4.8 U
ICS-K-SE-1-113012											
ICS-K-SE-2-113012	**129**	**310**	**1.95**	**19.2**	**0.5**	**213**	**560**	**1200**			
ICS-DUP2-SE-113012	**115**	**364**	**2.32**	**21.6**	**0.6**	**261**	**530**	**1200**			
ICS-K-SE-3-113012											
ICS-K-SE-4-113012	**46.3**	**241**	**0.21**	**18.0**	**0.5**	**143**	**620**	**440**	**26 J_Q**	20 U	5.0 U
ICS-K-SE-5-113012	**25.1**	**17.7**	**0.12**	**13.2**	0.3 U	**46**	28	**55**	20 U	20 U	4.9 U
ICS-L-SE-1-113012											
ICS-L-SE-2-113012	**21.9**	**87.2**	**0.34**	**10.5**	0.3 U	**82**	**1200**	**1400**			
ICS-L-SE-3-113012	**44.3**	**62.0**	**0.63**	**14.0**	0.3 U	**89**	**77**	**120**	**17 J**	20 U	4.9 U
ICS-L-SE-4-113012	**29.5**	**11.9**	**0.31**	**17.0**	0.3 U	**52**	24	**42**	**11 J**	19 U	4.8 U
ICS-L-SE-5-113012											
ICS-M-SE-1-113012	**52.9**	**57.9**	**0.21**	**17.8**	0.3 U	**116**	55	**160**			
ICS-M-SE-2-113012	**16.8**	**23.7**	**0.04**	**10.1**	0.2 U	**48**	**16**	**29**	20 U	20 U	4.9 U
ICS-M-SE-3-113012	**8.0**	**1.9**	0.3 U	**7.4**	0.2 U	**21**	6.1 U	12 U	19 U	19 U	4.7 U
ICS-DSS-01-SE-121012	**96.3**	**69.8**	**0.17**	**35.8**	0.2 U	**125**	84	**550**	**35 J**	58 U	14 U

J = estimate associated with value less than the verifiable lower quantitation limit.

J_Q = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

*** bold-typed values resemble corresponding petroleum hydrocarbon mixture*

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry	N-Nitroso-di-n-propylamine 621-64-7 µg/kg, dry	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry
ICS-A-SE-1-112612												
ICS-A-SE-2-112612												
ICS-A-SE-3-112612												
ICS-A-SE-4-112612	**3.0 J**	**130**	**6.5**	**5.5**	**57**	20 U	20 U	20 U	20 U	**15 J**	**620**	200 U
ICS-A-SE-5-112612	**2.9 J**	**130**	**10**	**3.8 J**	**25 J**	19 U	19 U	19 U	19 U	**4.6 J**	**400**	190 U
ICS-A-SE-6-112612												
ICS-A-SE-7-112612												
ICS-B-SE-1-112712												
ICS-B-SE-2-112712												
ICS-B-SE-3-112712	**300**	57 U	**97**	**14 J**	110 U	57 U	57 U	57 U	57 U	**58**	1100 U	570 U
ICS-B-SE-4-112712												
ICS-B-SE-5-112712	**22**	**150**	**22**	**4.1 J**	**28 J**	20 U	20 U	20 U	20 U	**5.4 J**	**440**	200 U
ICS-B-SE-6-112712												
ICS-C-SE-1-112712												
ICS-C-SE-2-112712												
ICS-C-SE-3-112712	4.6 U	**54**	4.6 U	**3.2 J**	**18 J**	18 U	18 U	18 U	18 U	**92**	**210 J**	180 U
ICS-C-SE-4-112712	**33**	20 U	**2.8 J**	4.9 U	39 U	20 U	20 U	20 U	20 U	**22**	390 U	200 U
ICS-D-SE-1-112712												
ICS-D-SE-2-112712												
ICS-D-SE-3-112712	**15**	**41**	**76**	**9.2**	**25 J**	19 U	19 U	19 U	19 U	**82**	**230 J**	190 U
ICS-D-SE-4-112712	5.0 U	**100**	5.0 U	**3.1 J**	**23 J**	20 U	20 U	20 U	20 U	**4.3 J**	**320 J**	200 U
ICS-D-SE-5-112712												
ICS-F-SE-1-112712												
ICS-F-SE-2-112712												
ICS-F-SE-3-112712												
ICS-F-SE-3-121012												
ICS-F-SE-4-112712												
ICS-F-SE-5-112712												
ICS-F-SE-6-112712												
ICS-F-SE-7-112712	4.9 U	**42**	4.9 U	4.9 U	**13 J**	20 U	20 U	20 U	20 U	20 U	**120 J**	200 U
ICS-F-SE-8-112712	4.6 U	18 U	4.6 U	4.6 U	37 U	18 U	18 U	18 U	18 U	18 U	370 U	180 U
ICS-F-SE-9-112712												
ICS-G-SE-1-112812												
ICS-G-SE-2-112812												
ICS-G-SE-3-112812												
ICS-DUP1-SE-112812												
ICS-G-SE-4-112812												
ICS-G-SE-5-112812	**140**	110 U	29 U	29 U	230 U	110 U	110 U	110 U	110 U	**58 J**	2300 U	1100 U
ICS-G-SE-6-112812	4.8 U	**61**	**3.2 J**	**2.6 J**	**25 J**	19 U	19 U	19 U	19 U	**4.9 J**	**170 J**	190 U
ICS-H-SE-1-112812												
ICS-H-SE-2-112812												
ICS-H-SE-3-112812	**1000**	26 U	**100**	**4.2 J**	51 U	26 U	26 U	26 U	26 U	**15 J**	510 U	260 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry	N-Nitroso-di-n-propylamine 621-64-7 µg/kg, dry	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry
ICS-H-SE-4-112812	**24**	19 U	**7.4**	4.9 U	39 U	19 U	19 U	19 U	19 U	**6.4 J**	390 U	190 U
ICS-I-SE-1-112812												
ICS-I-SE-2-112812												
ICS-I-SE-3-112812	14 U	**36 J**	14 U	14 U	110 U	57 U	57 U	57 U	57 U	57 U	1100 U	570 U
ICS-I-SE-4-112812												
ICS-I-SE-5-112812	4.6 U	18 U	4.6 U	4.6 U	37 U	18 U	18 U	18 U	18 U	18 U	370 U	180 U
ICS-I-SE-6-112812												
ICS-J-SE-1-112812												
ICS-J-SE-2-112812												
ICS-J-SE-3-112812												
ICS-J-SE-4-112812												
ICS-J-SE-5-112812	4.7 U	**27**	4.7 U	**2.4 J**	**42 J_Q**	19 U	19 U	19 U	19 U	**3.0 J**	**110 J**	190 U
ICS-J-SE-6-112812	4.8 U	**44**	4.8 U	4.8 U	**14 J**	19 U	19 U	19 U	19 U	19 U	380 U	190 U
ICS-K-SE-1-113012												
ICS-K-SE-2-113012												
ICS-DUP2-SE-113012												
ICS-K-SE-3-113012												
ICS-K-SE-4-113012	**2.7 J**	**57**	5.0 U	**3.7 J**	**34 J**	20 U	20 U	20 U	20 U	**11 J**	**170 J**	200 U
ICS-K-SE-5-113012	4.9 U	20 U	4.9 U	4.9 U	39 U	20 U	20 U	20 U	20 U	20 U	390 U	200 U
ICS-L-SE-1-113012												
ICS-L-SE-2-113012												
ICS-L-SE-3-113012	4.9 U	**25**	4.9 U	**3.7 J**	**28 J**	20 U	20 U	20 U	20 U	**6.4 J**	390 U	200 U
ICS-L-SE-4-113012	4.8 U	**27**	4.8 U	**7.1**	**38 J**	19 U	19 U	19 U	19 U	**3.5 J**	390 U	190 U
ICS-L-SE-5-113012												
ICS-M-SE-1-113012												
ICS-M-SE-2-113012	4.9 U	20 U	4.9 U	4.9 U	39 U	20 U	20 U	20 U	20 U	20 U	390 U	200 U
ICS-M-SE-3-113012	4.7 U	19 U	4.7 U	4.7 U	38 U	19 U	19 U	19 U	19 U	19 U	380 U	190 U
ICS-DSS-01-SE-121012	14 U	58 U	14 U	14 U	**70 J**	58 U	58 U	58 U	58 U	**29 J**	1200 U	580 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,6-Trichloro-phenol 88-06-2 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry
ICS-A-SE-1-112612											
ICS-A-SE-2-112612											
ICS-A-SE-3-112612											
ICS-A-SE-4-112612	**6.9**	**66**	98 U	**41**	98 U	98 U	20 U	20 U	20 U	**46**	**43**
ICS-A-SE-5-112612	4.8 U	**50**	95 U	**34**	95 U	95 U	19 U	19 U	19 U	**21**	**30**
ICS-A-SE-6-112612											
ICS-A-SE-7-112612											
ICS-B-SE-1-112712											
ICS-B-SE-2-112712											
ICS-B-SE-3-112712	**66**	**360**	280 U	**260**	280 U	280 U	57 U	57 U	57 U	**910**	57 U
ICS-B-SE-4-112712											
ICS-B-SE-5-112712	4.9 U	**57**	97 U	**44**	97 U	97 U	20 U	20 U	20 U	**29**	**39**
ICS-B-SE-6-112712											
ICS-C-SE-1-112712											
ICS-C-SE-2-112712											
ICS-C-SE-3-112712	4.6 U	**24**	92 U	**13 J**	92 U	92 U	18 U	18 U	18 U	**21**	**20**
ICS-C-SE-4-112712	4.9 U	**18 J**	98 U	20 U	98 U	98 U	20 U	20 U	20 U	**23**	20 U
ICS-D-SE-1-112712											
ICS-D-SE-2-112712											
ICS-D-SE-3-112712	4.8 U	**620**	96 U	**520**	96 U	96 U	19 U	19 U	**19**	**34**	**33**
ICS-D-SE-4-112712	5.0 U	**69**	100 U	**45**	100 U	100 U	20 U	20 U	**12 J**	**31**	**42**
ICS-D-SE-5-112712											
ICS-F-SE-1-112712											
ICS-F-SE-2-112712											
ICS-F-SE-3-112712											
ICS-F-SE-3-121012											
ICS-F-SE-4-112712											
ICS-F-SE-5-112712											
ICS-F-SE-6-112712											
ICS-F-SE-7-112712	4.9 U	**22**	97 U	**20**	97 U	97 U	20 U	20 U	20 U	20 U	**14 J**
ICS-F-SE-8-112712	4.6 U	18 U	92 U	18 U	92 U	92 U	18 U	18 U	18 U	18 U	18 U
ICS-F-SE-9-112712											
ICS-G-SE-1-112812											
ICS-G-SE-2-112812											
ICS-G-SE-3-112812											
ICS-DUP1-SE-112812											
ICS-G-SE-4-112812											
ICS-G-SE-5-112812	29 U	**380**	570 U	**220**	570 U	570 U	110 U	110 U	110 U	**330**	**91 J**
ICS-G-SE-6-112812	4.8 U	**84**	96 U	**40**	96 U	96 U	19 U	19 U	**34**	**34**	**35**
ICS-H-SE-1-112812											
ICS-H-SE-2-112812											
ICS-H-SE-3-112812	**36**	**190**	130 U	**91**	130 U	130 U	26 U	26 U	26 U	**240**	**86**

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,6-Trichloro-phenol 88-06-2 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry
ICS-H-SE-4-112812	**6.1**	**20**	97 U	19 U	97 U	97 U	19 U	19 U	19 U	19 U	19 U
ICS-I-SE-1-112812											
ICS-I-SE-2-112812											
ICS-I-SE-3-112812	14 U	**86**	290 U	**29 J**	290 U	290 U	57 U	57 U	**37 J**	**77**	**29 J**
ICS-I-SE-4-112812											
ICS-I-SE-5-112812	4.6 U	**23**	92 U	**11 J**	92 U	92 U	18 U	18 U	18 U	**520**	**23**
ICS-I-SE-6-112812											
ICS-J-SE-1-112812											
ICS-J-SE-2-112812											
ICS-J-SE-3-112812											
ICS-J-SE-4-112812											
ICS-J-SE-5-112812	4.7 U	**64**	94 U	**17 J**	94 U	94 U	19 U	19 U	**22**	**44**	**25**
ICS-J-SE-6-112812	4.8 U	**23**	96 U	**36**	96 U	96 U	19 U	19 U	19 U	**23**	**15 J**
ICS-K-SE-1-113012											
ICS-K-SE-2-113012											
ICS-DUP2-SE-113012											
ICS-K-SE-3-113012											
ICS-K-SE-4-113012	5.0 U	**100**	100 U	**140**	100 U	100 U	20 U	20 U	20 U	**62**	**34**
ICS-K-SE-5-113012	4.9 U	**83**	98 U	**21**	98 U	98 U	20 U	20 U	**28**	**80**	**28**
ICS-L-SE-1-113012											
ICS-L-SE-2-113012											
ICS-L-SE-3-113012	4.9 U	**160**	98 U	**39**	98 U	98 U	20 U	20 U	**51**	**66**	**48**
ICS-L-SE-4-113012	4.8 U	**71**	97 U	**38**	97 U	97 U	19 U	19 U	**22**	**23**	**32**
ICS-L-SE-5-113012											
ICS-M-SE-1-113012											
ICS-M-SE-2-113012	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U	20 U	20 U	20 U	20 U
ICS-M-SE-3-113012	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U	19 U	19 U
ICS-DSS-01-SE-121012	14 U	**52 J**	290 U	**38 J**	290 U	290 U	58 U	58 U	58 U	**260**	**67**

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry
ICS-A-SE-1-112612												
ICS-A-SE-2-112612												
ICS-A-SE-3-112612												
ICS-A-SE-4-112612	98 U	98 U	49 U	20 U	**51**	20 U	**18 J**	**180**	**13 J**	**45**	20 U	**200**
ICS-A-SE-5-112612	95 U	95 U	**37 J**	19 U	**33**	**11 J**	48 U	**110**	19 U	**22**	19 U	**92**
ICS-A-SE-6-112612												
ICS-A-SE-7-112612												
ICS-B-SE-1-112712												
ICS-B-SE-2-112712												
ICS-B-SE-3-112712	280 U	280 U	140 U	57 U	**450**	57 U	**800**	**400**	57 U	**600**	57 U	**2200**
ICS-B-SE-4-112712												
ICS-B-SE-5-112712	97 U	97 U	**60**	20 U	**45**	**6.6 J**	49 U	**140**	20 U	**26**	20 U	**120**
ICS-B-SE-6-112712												
ICS-C-SE-1-112712												
ICS-C-SE-2-112712												
ICS-C-SE-3-112712	92 U	92 U	46 U	18 U	**22**	**2.4 J**	46 U	**53**	18 U	**15 J**	18 U	**71**
ICS-C-SE-4-112712	98 U	98 U	**51**	20 U	**13 J**	20 U	49 U	**49**	20 U	**14 J**	20 U	**83**
ICS-D-SE-1-112712												
ICS-D-SE-2-112712												
ICS-D-SE-3-112712	96 U	96 U	48 U	19 U	**51**	**6.1 J**	48 U	**130**	**17 J**	**39**	19 U	**240**
ICS-D-SE-4-112712	100 U	100 U	50 U	20 U	**51**	**3.5 J**	50 U	**160**	20 U	**30**	20 U	**140**
ICS-D-SE-5-112712												
ICS-F-SE-1-112712												
ICS-F-SE-2-112712												
ICS-F-SE-3-112712												
ICS-F-SE-3-121012												
ICS-F-SE-4-112712												
ICS-F-SE-5-112712												
ICS-F-SE-6-112712												
ICS-F-SE-7-112712	97 U	97 U	49 U	20 U	**20**	20 U	49 U	**54**	20 U	**16 J**	20 U	**74**
ICS-F-SE-8-112712	92 U	92 U	**220**	18 U	18 U	18 U	46 U	**12 J**	18 U	18 U	18 U	**12 J**
ICS-F-SE-9-112712												
ICS-G-SE-1-112812												
ICS-G-SE-2-112812												
ICS-G-SE-3-112812												
ICS-DUP1-SE-112812												
ICS-G-SE-4-112812												
ICS-G-SE-5-112812	570 U	570 U	290 U	110 U	**1200**	**1800**	**880 J_Q**	**940**	110 U	**730**	110 U	**1600**
ICS-G-SE-6-112812	96 U	96 U	48 U	19 U	**52**	**9.6 J**	48 U	**170**	**13 J**	**59**	19 U	**250**
ICS-H-SE-1-112812												
ICS-H-SE-2-112812												
ICS-H-SE-3-112812	130 U	130 U	64 U	26 U	**490**	**260**	**190 J_Q**	**800**	26 U	**300**	**120**	**910**

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry
ICS-H-SE-4-112812	97 U	97 U	**49**	19 U	**16 J**	**3.3 J**	49 U	**35**	19 U	19 U	19 U	**41**
ICS-I-SE-1-112812												
ICS-I-SE-2-112812												
ICS-I-SE-3-112812	290 U	290 U	140 U	57 U	**52 J**	**8.9 J**	140 U	**150**	**29 J**	**97**	57 U	**460**
ICS-I-SE-4-112812												
ICS-I-SE-5-112812	92 U	92 U	46 U	18 U	**41**	**2.8 J**	46 U	**500**	**87**	**150**	18 U	**770**
ICS-I-SE-6-112812												
ICS-J-SE-1-112812												
ICS-J-SE-2-112812												
ICS-J-SE-3-112812												
ICS-J-SE-4-112812												
ICS-J-SE-5-112812	94 U	94 U	47 U	19 U	**35**	19 U	47 U	**120**	**12 J**	**57**	19 U	**380**
ICS-J-SE-6-112812	96 U	96 U	48 U	19 U	**21**	19 U	48 U	**84**	**10 J**	**33**	19 U	**260**
ICS-K-SE-1-113012												
ICS-K-SE-2-113012												
ICS-DUP2-SE-113012												
ICS-K-SE-3-113012												
ICS-K-SE-4-113012	100 U	100 U	50 U	20 U	**49**	20 U	**59 J**	**100**	20 U	**44**	20 U	**180**
ICS-K-SE-5-113012	98 U	98 U	49 U	20 U	**39**	20 U	49 U	**110**	20 U	**71**	**16 J**	**280**
ICS-L-SE-1-113012												
ICS-L-SE-2-113012												
ICS-L-SE-3-113012	98 U	98 U	49 U	20 U	**59**	**4.0 J**	49 U	**200**	**17 J**	**65**	20 U	**400**
ICS-L-SE-4-113012	97 U	97 U	48 U	19 U	**45**	**2.6 J**	48 U	**130**	**11 J**	**37**	19 U	**180**
ICS-L-SE-5-113012												
ICS-M-SE-1-113012												
ICS-M-SE-2-113012	98 U	98 U	**40 J**	20 U	20 U	20 U	49 U	20 U	20 U	20 U	20 U	**26**
ICS-M-SE-3-113012	94 U	94 U	47 U	19 U	19 U	19 U	47 U	19 U	19 U	19 U	19 U	19 U
ICS-DSS-01-SE-121012	290 U	290 U	140 U	58 U	**220**	58 U	**150 J_Q**	**3700**	**470**	**720**	58 U	**5100**

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Pyrene 129-00-0 µg/kg, dry	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
ICS-A-SE-1-112612													
ICS-A-SE-2-112612													
ICS-A-SE-3-112612													
ICS-A-SE-4-112612	**160**	4.9 U	**53**	**40 J_B**	**65**	20 U	**78**	**53**	**23**	20 U	**30**	388	662
ICS-A-SE-5-112612	**78**	4.8 U	**26**	**40 J_B**	**38**	19 U	**43**	19 U	**12 J**	19 U	**19**	236	308
ICS-A-SE-6-112612													
ICS-A-SE-7-112612													
ICS-B-SE-1-112712													
ICS-B-SE-2-112712													
ICS-B-SE-3-112712	**2000**	**47**	**640**	**5600**	**1100**	57 U	**930**	**480**	**120**	**57**	**140**	2720	7667
ICS-B-SE-4-112712													
ICS-B-SE-5-112712	**95**	4.9 U	**29**	**66**	**43**	20 U	**48**	20 U	20 U	20 U	**20**	297	355
ICS-B-SE-6-112712													
ICS-C-SE-1-112712													
ICS-C-SE-2-112712													
ICS-C-SE-3-112712	**58**	**3.2 J**	**19**	**92**	**22**	18 U	**30 J**	18 U	18 U	18 U	**12 J**	135	212
ICS-C-SE-4-112712	**86**	4.9 U	**35**	**28 J_B**	**36**	20 U	**48**	**31**	**14 J**	20 U	**18 J**	117	351
ICS-D-SE-1-112712													
ICS-D-SE-2-112712													
ICS-D-SE-3-112712	**200**	4.8 U	**59**	**37 J_B**	**75**	19 U	**100**	**48**	**27**	**10 J**	**34**	893	793
ICS-D-SE-4-112712	**100**	5.0 U	**34**	**32 J_B**	**44**	20 U	**48**	20 U	**13 J**	20 U	**18 J**	322	397
ICS-D-SE-5-112712													
ICS-F-SE-1-112712													
ICS-F-SE-2-112712													
ICS-F-SE-3-112712													
ICS-F-SE-3-121012													
ICS-F-SE-4-112712													
ICS-F-SE-5-112712													
ICS-F-SE-6-112712													
ICS-F-SE-7-112712	**62**	4.9 U	**18 J**	**32 J_B**	**26**	20 U	**16 J**	20 U	**14 J**	20 U	**16 J**	112	226
ICS-F-SE-8-112712	**11 J**	4.6 U	18 U	**29 J_B**	18 U	18 U	37 U	18 U	18 U	18 U	18 U	18 U	23
ICS-F-SE-9-112712													
ICS-G-SE-1-112812													
ICS-G-SE-2-112812													
ICS-G-SE-3-112812													
ICS-DUP1-SE-112812													
ICS-G-SE-4-112812													
ICS-G-SE-5-112812	**4200**	**170**	**740**	**2800**	**1800**	110 U	**890**	110 U	**140**	110 U	**180**	3580	9550
ICS-G-SE-6-112812	**330**	4.8 U	**110**	**37 J_B**	**130**	19 U	**180**	**110**	**45**	**16 J**	**56**	433	1227
ICS-H-SE-1-112812													
ICS-H-SE-2-112812													
ICS-H-SE-3-112812	**920**	**51**	**350**	**1400**	**490**	26 U	**490**	**260**	**68**	**26**	**67**	2020	3581

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Pyrene 129-00-0 µg/kg, dry	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
ICS-H-SE-4-112812	**41**	4.9 U	**14 J**	**32 J_B**	**15 J**	19 U	**20 J**	19 U	19 U	19 U	19 U	71	131
ICS-I-SE-1-112812													
ICS-I-SE-2-112812													
ICS-I-SE-3-112812	**360**	14 U	**300**	72 U	**540**	57 U	**780**	**360**	**180**	**63**	**210**	499	3253
ICS-I-SE-4-112812													
ICS-I-SE-5-112812	**840**	4.6 U	**310**	**37 J_B**	**350**	18 U	**470**	**360**	**170**	**73**	**220**	1234	3563
ICS-I-SE-6-112812													
ICS-J-SE-1-112812													
ICS-J-SE-2-112812													
ICS-J-SE-3-112812													
ICS-J-SE-4-112812													
ICS-J-SE-5-112812	**270**	4.7 U	**94**	**25 J_B**	**160**	19 U	**140**	**72**	**36**	**11 J**	**34**	342	1197
ICS-J-SE-6-112812	**220**	4.8 U	**80**	24 U	**78**	19 U	**120**	**64**	**34**	**16 J**	**42**	184	914
ICS-K-SE-1-113012													
ICS-K-SE-2-113012													
ICS-DUP2-SE-113012													
ICS-K-SE-3-113012													
ICS-K-SE-4-113012	**200**	5.0 U	**54**	**46 J_B**	**79**	20 U	**90**	**38**	**28**	20 U	**32**	355	701
ICS-K-SE-5-113012	**230**	4.9 U	**120**	**24 J_B**	**170**	20 U	**210**	**110**	**49**	**17 J**	**65**	411	1251
ICS-L-SE-1-113012													
ICS-L-SE-2-113012													
ICS-L-SE-3-113012	**320**	4.9 U	**91**	25 U	**120**	20 U	**160**	**93**	**50**	**21**	**56**	601	1311
ICS-L-SE-4-113012	**150**	4.8 U	**40**	24 U	**50**	19 U	**67**	19 U	**21**	19 U	**32**	328	540
ICS-L-SE-5-113012													
ICS-M-SE-1-113012													
ICS-M-SE-2-113012	**26**	4.9 U	20 U	**41 J_B**	**14 J**	20 U	**25 J**	**9.8 J**	20 U	20 U	20 U	20 U	101
ICS-M-SE-3-113012	19 U	4.7 U	19 U	**24 J_B**	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-DSS-01-SE-121012	**5400**	**13 J**	**3500**	**520**	**3800**	58 U	**5000**	**3000**	**1200**	**510**	**1200**	4952	28,710

J = estimate associated with value less than the verifiable lower quantitation limit.

J_B = associated value may be biased high due to contribution from laboratory background or method blank.

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Tributyltin ion 36643-28-4 µg/kg, dry	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry
ICS-A-SE-1-112612											
ICS-A-SE-2-112612											
ICS-A-SE-3-112612											
ICS-A-SE-4-112612		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U	4.7 U	4.7 U
ICS-A-SE-5-112612		0.48 U	1.2 U	1.4 U	0.48 U	0.48 U	0.62 U	0.96 U	0.48 U	0.96 U	0.96 U
ICS-A-SE-6-112612											
ICS-A-SE-7-112612											
ICS-B-SE-1-112712											
ICS-B-SE-2-112712											
ICS-B-SE-3-112712		25 U	120 U	25 U	25 U	100 U	190 U	340 U	25 U	430 U	**870 J_P**
ICS-B-SE-4-112712											
ICS-B-SE-5-112712		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	4.9 U	2.5 U	4.9 U	4.9 U
ICS-B-SE-6-112712											
ICS-C-SE-1-112712											
ICS-C-SE-2-112712											
ICS-C-SE-3-112712		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U	4.7 U	4.7 U
ICS-C-SE-4-112712		0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U
ICS-D-SE-1-112712											
ICS-D-SE-2-112712											
ICS-D-SE-3-112712		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U	4.9 U	4.9 U
ICS-D-SE-4-112712		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U	4.8 U	4.8 U
ICS-D-SE-5-112712											
ICS-F-SE-1-112712											
ICS-F-SE-2-112712											
ICS-F-SE-3-112712											
ICS-F-SE-3-121012											
ICS-F-SE-4-112712											
ICS-F-SE-5-112712											
ICS-F-SE-6-112712											
ICS-F-SE-7-112712		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U	4.7 U	4.7 U
ICS-F-SE-8-112712		0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	0.92 U	0.92 U
ICS-F-SE-9-112712											
ICS-G-SE-1-112812											
ICS-G-SE-2-112812											
ICS-G-SE-3-112812											
ICS-DUP1-SE-112812											
ICS-G-SE-4-112812											
ICS-G-SE-5-112812		24 U	24 U	24 U	24 U	36 U	24 U	120 U	24 U	48 U	**480**
ICS-G-SE-6-112812		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U	4.9 U	4.9 U
ICS-H-SE-1-112812											
ICS-H-SE-2-112812											
ICS-H-SE-3-112812		36 U	36 U	36 U	36 U	100 U	340 U	390 U	36 U	410 U	**650 J_P**

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Tributyltin ion 36643-28-4 µg/kg, dry	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry
ICS-H-SE-4-112812		0.47 U	0.47 U	0.47 U	1.5 U	4.2 U	8.9 U	4.8 U	0.47 U	2.2 U	**24**
ICS-I-SE-1-112812											
ICS-I-SE-2-112812											
ICS-I-SE-3-112812		2.4 U	3.7 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U	4.9 U	**29**
ICS-I-SE-4-112812											
ICS-I-SE-5-112812		0.48 U	1.0 U	0.48 U	0.48 U	0.98 U	1.1 U	2.2 U	0.48 U	0.96 U	**31 J_P**
ICS-I-SE-6-112812											
ICS-J-SE-1-112812											
ICS-J-SE-2-112812											
ICS-J-SE-3-112812											
ICS-J-SE-4-112812											
ICS-J-SE-5-112812		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	5.0 U	5.0 U
ICS-J-SE-6-112812		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.9 U	2.4 U	4.9 U	4.9 U
ICS-K-SE-1-113012											
ICS-K-SE-2-113012	**59**										
ICS-DUP2-SE-113012											
ICS-K-SE-3-113012											
ICS-K-SE-4-113012		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U	4.8 U	**41**
ICS-K-SE-5-113012		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U	4.7 U	4.7 U
ICS-L-SE-1-113012											
ICS-L-SE-2-113012	3.7 U										
ICS-L-SE-3-113012		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	5.0 U	5.0 U
ICS-L-SE-4-113012		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U	4.8 U	4.8 U
ICS-L-SE-5-113012											
ICS-M-SE-1-113012											
ICS-M-SE-2-113012		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	7.9 U	2.5 U	4.9 U	**11 J_P**
ICS-M-SE-3-113012		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U
ICS-DSS-01-SE-121012		4.9 U	4.9 U	6.9 U	4.9 U	4.9 U	4.9 U	9.9 U	4.9 U	9.9 U	**51 J_P**

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry	Endrin aldehyde 7421-93-4 µg/kg, dry	*trans* - Chlordane 5103-74-2 µg/kg, dry	*cis* - Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry
ICS-A-SE-1-112612											
ICS-A-SE-2-112612											
ICS-A-SE-3-112612											
ICS-A-SE-4-112612	4.7 U	4.7 U	4.7 U	4.7 U	5.8 U	24 U	4.7 U	4.7 U	2.4 U	2.4 U	470 U
ICS-A-SE-5-112612	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U
ICS-A-SE-6-112612											
ICS-A-SE-7-112612											
ICS-B-SE-1-112712											
ICS-B-SE-2-112712											
ICS-B-SE-3-112712	120 U	210 U	640 U	140 U	990 U	250 U	50 U	50 U	300 U	25 U	5000 U
ICS-B-SE-4-112712											
ICS-B-SE-5-112712	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	25 U	4.9 U	4.9 U	2.5 U	2.5 U	490 U
ICS-B-SE-6-112712											
ICS-C-SE-1-112712											
ICS-C-SE-2-112712											
ICS-C-SE-3-112712	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	24 U	4.7 U	4.7 U	2.4 U	2.4 U	470 U
ICS-C-SE-4-112712	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U	0.94 U	0.47 U	0.47 U	94 U
ICS-D-SE-1-112712											
ICS-D-SE-2-112712											
ICS-D-SE-3-112712	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U	4.9 U	2.4 U	2.4 U	490 U
ICS-D-SE-4-112712	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	24 U	4.8 U	4.8 U	2.4 U	2.4 U	480 U
ICS-D-SE-5-112712											
ICS-F-SE-1-112712											
ICS-F-SE-2-112712											
ICS-F-SE-3-112712											
ICS-F-SE-3-121012											
ICS-F-SE-4-112712											
ICS-F-SE-5-112712											
ICS-F-SE-6-112712											
ICS-F-SE-7-112712	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	24 U	4.7 U	4.7 U	2.4 U	2.4 U	470 U
ICS-F-SE-8-112712	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.46 U	0.46 U	92 U
ICS-F-SE-9-112712											
ICS-G-SE-1-112812											
ICS-G-SE-2-112812											
ICS-G-SE-3-112812											
ICS-DUP1-SE-112812											
ICS-G-SE-4-112812											
ICS-G-SE-5-112812	48 U	48 U	**870**	48 U	290 U	240 U	79 U	48 U	92 U	24 U	4800 U
ICS-G-SE-6-112812	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U	4.9 U	2.4 U	2.4 U	490 U
ICS-H-SE-1-112812											
ICS-H-SE-2-112812											
ICS-H-SE-3-112812	210 U	71 U	640 U	71 U	1100 U	360 U	220 U	71 U	36 U	36 U	7100 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry	Endrin aldehyde 7421-93-4 µg/kg, dry	*trans* - Chlordane 5103-74-2 µg/kg, dry	*cis* - Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry
ICS-H-SE-4-112812	0.94 U	1.3 U	**16**	0.94 U	3.6 U	4.7 U	0.94 U	0.94 U	2.5 U	0.47 U	94 U
ICS-I-SE-1-112812											
ICS-I-SE-2-112812											
ICS-I-SE-3-112812	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U	4.9 U	2.4 U	2.4 U	490 U
ICS-I-SE-4-112812											
ICS-I-SE-5-112812	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	96 U
ICS-I-SE-6-112812											
ICS-J-SE-1-112812											
ICS-J-SE-2-112812											
ICS-J-SE-3-112812											
ICS-J-SE-4-112812											
ICS-J-SE-5-112812	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	2.5 U	2.5 U	500 U
ICS-J-SE-6-112812	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	24 U	4.9 U	4.9 U	2.4 U	2.4 U	490 U
ICS-K-SE-1-113012											
ICS-K-SE-2-113012											
ICS-DUP2-SE-113012											
ICS-K-SE-3-113012											
ICS-K-SE-4-113012	4.8 U	4.8 U	**27**	4.8 U	4.8 U	24 U	4.8 U	4.8 U	2.4 U	2.4 U	480 U
ICS-K-SE-5-113012	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	24 U	4.7 U	4.7 U	2.4 U	2.4 U	470 U
ICS-L-SE-1-113012											
ICS-L-SE-2-113012											
ICS-L-SE-3-113012	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	2.5 U	2.5 U	500 U
ICS-L-SE-4-113012	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	24 U	4.8 U	4.8 U	2.4 U	2.4 U	480 U
ICS-L-SE-5-113012											
ICS-M-SE-1-113012											
ICS-M-SE-2-113012	4.9 U	4.9 U	4.9 U	4.9 U	16 U	25 U	4.9 U	4.9 U	2.5 U	2.5 U	490 U
ICS-M-SE-3-113012	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.48 U	0.48 U	95 U
ICS-DSS-01-SE-121012	9.9 U	9.9 U	9.9 U	9.9 U	12 U	49 U	9.9 U	9.9 U	4.9 U	4.9 U	990 U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachloro-butadiene 87-68-3 µg/kg, dry	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-A-SE-1-112612										
ICS-A-SE-2-112612			75 U	75 U	**810**	**870**	**690**	75 U	75 U	2370
ICS-A-SE-3-112612										
ICS-A-SE-4-112612	4.7 U	4.7 U	3.8 U	3.8 U	**42**	**31**	**26**	3.8 U	3.8 U	99
ICS-A-SE-5-112612	0.96 U	0.96 U	3.8 U	3.8 U	**12**	**7.8**	**7.3**	3.8 U	3.8 U	27.1
ICS-A-SE-6-112612										
ICS-A-SE-7-112612										
ICS-B-SE-1-112712			37 U	37 U	**170**	**140**	**120**	37 U	37 U	430
ICS-B-SE-2-112712										
ICS-B-SE-3-112712	57 U	50 U	400 U	400 U	**9600**	**11,000**	**8600**	400 U	400 U	29,200
ICS-B-SE-4-112712										
ICS-B-SE-5-112712	4.9 U	4.9 U	3.9 U	**50**	3.9 U	**24**	**23**	3.9 U	3.9 U	97
ICS-B-SE-6-112712										
ICS-C-SE-1-112712										
ICS-C-SE-2-112712			3.6 U	3.6 U	**18**	**21**	**16**	3.6 U	3.6 U	55
ICS-C-SE-3-112712	4.7 U	4.7 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-C-SE-4-112712	0.94 U	0.94 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
ICS-D-SE-1-112712										
ICS-D-SE-2-112712			200 U	200 U	**6200**	**7700**	**3100**	200 U	200 U	17,000
ICS-D-SE-3-112712	4.9 U	4.9 U	3.9 U	3.9 U	**27**	**30**	**10**	3.9 U	3.9 U	67
ICS-D-SE-4-112712	4.8 U	4.8 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-D-SE-5-112712										
ICS-F-SE-1-112712										
ICS-F-SE-2-112712										
ICS-F-SE-3-112712										
ICS-F-SE-3-121012										
ICS-F-SE-4-112712										
ICS-F-SE-5-112712			4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-F-SE-6-112712										
ICS-F-SE-7-112712	4.7 U	4.7 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-F-SE-8-112712	0.92 U	0.92 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-F-SE-9-112712										
ICS-G-SE-1-112812										
ICS-G-SE-2-112812										
ICS-G-SE-3-112812			39 U	39 U	**610**	**670**	**270**	39 U	39 U	1550
ICS-DUP1-SE-112812			38 U	38 U	**390**	**440**	**210**	38 U	38 U	1040
ICS-G-SE-4-112812										
ICS-G-SE-5-112812	48 U	48 U	78 U	78 U	**3600**	**3600**	**2800**	78 U	78 U	10,000
ICS-G-SE-6-112812	4.9 U	4.9 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-H-SE-1-112812										
ICS-H-SE-2-112812			170 U	170 U	**7400**	**4900**	**5800**	170 U	170 U	18,100
ICS-H-SE-3-112812	71 U	71 U	580 U	580 U	**13,000**	**16,000**	**9100**	580 U	580 U	38,100

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachloro-butadiene 87-68-3 µg/kg, dry	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-H-SE-4-112812	0.94 U	0.94 U	18 U	**260**	18 U	93 U	18 U	18 U	18 U	260
ICS-I-SE-1-112812										
ICS-I-SE-2-112812			140 U	140 U	**5100**	**6000**	**1900**	140 U	140 U	13,000
ICS-I-SE-3-112812	4.9 U	4.9 U	3.9 U	3.9 U	**170**	**160**	**65**	3.9 U	3.9 U	395
ICS-I-SE-4-112812										
ICS-I-SE-5-112812	0.96 U	0.96 U	3.8 U	**36**	3.8 U	19 U	**5.6**	3.8 U	3.8 U	42
ICS-I-SE-6-112812										
ICS-J-SE-1-112812										
ICS-J-SE-2-112812										
ICS-J-SE-3-112812			3.8 U	3.8 U	**47**	**110**	**180**	3.8 U	3.8 U	337
ICS-J-SE-4-112812										
ICS-J-SE-5-112812	5.0 U	5.0 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-J-SE-6-112812	4.9 U	4.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-K-SE-1-113012										
ICS-K-SE-2-113012			170 U	170 U	**5000**	**5100**	**2900**	170 U	170 U	13,000
ICS-DUP2-SE-113012			220 U	220 U	**6700**	**6500**	**3400**	220 U	220 U	16,600
ICS-K-SE-3-113012										
ICS-K-SE-4-113012	4.8 U	4.8 U	3.8 U	3.8 U	**22**	76 U	**81**	3.8 U	3.8 U	103
ICS-K-SE-5-113012	4.7 U	4.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-L-SE-1-113012										
ICS-L-SE-2-113012			38 U	38 U	**910**	**880**	**520**	38 U	38 U	2310
ICS-L-SE-3-113012	5.0 U	5.0 U	4.0 U	4.0 U	**8.0**	**9.2**	**6.0**	4.0 U	4.0 U	23
ICS-L-SE-4-113012	4.8 U	4.8 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-L-SE-5-113012										
ICS-M-SE-1-113012			37 U	37 U	**370**	**360**	**380**	37 U	37 U	1110
ICS-M-SE-2-113012	4.9 U	4.9 U	3.8 U	3.8 U	**98**	**120**	**94**	3.8 U	3.8 U	312
ICS-M-SE-3-113012	0.95 U	0.95 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-DSS-01-SE-121012	9.9 U	9.9 U	20 U	20 U	**420**	**420**	**350**	20 U	20 U	1190

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	gravel > 4750 µm %	coarse sand 4750 - 2000 µm %	medium sand 2000 - 425 µm %	fine sand 425 - 75 µm %	v. coarse silt 75 - 32 µm %	coarse silt 32 - 22 µm %	medium silt 22 - 13 µm %	fine silt 13 - 7 µm %	v. fine silt 7 - 3.2 µm %	total silt 32 - 3.2 µm %	clay 3.2 - 1.3 µm %	clay < 1.3 µm %	total fines < 32 µm %
ICS-A-SE-1-112612													
ICS-A-SE-2-112612													
ICS-A-SE-3-112612													
ICS-A-SE-4-112612													
ICS-A-SE-5-112612													
ICS-A-SE-6-112612													
ICS-A-SE-7-112612													
ICS-B-SE-1-112712													
ICS-B-SE-2-112712													
ICS-B-SE-3-112712													
ICS-B-SE-4-112712													
ICS-B-SE-5-112712													
ICS-B-SE-6-112712	0.0	0.0	3.9	7.1	14.0	14.1	14.1	17.0	11.9	71.2	8.2	9.4	88.8
ICS-C-SE-1-112712													
ICS-C-SE-2-112712													
ICS-C-SE-3-112712													
ICS-C-SE-4-112712													
ICS-D-SE-1-112712													
ICS-D-SE-2-112712													
ICS-D-SE-3-112712													
ICS-D-SE-4-112712													
ICS-D-SE-5-112712													
ICS-F-SE-1-112712													
ICS-F-SE-2-112712													
ICS-F-SE-3-112712													
ICS-F-SE-3-121012	0.0	0.5	1.9	8.9	16.9	13.2	13.2	18.9	11.3	73.5	7.6	7.6	88.7
ICS-F-SE-4-112712													
ICS-F-SE-5-112712													
ICS-F-SE-6-112712													
ICS-F-SE-7-112712													
ICS-F-SE-8-112712	0.0	0.0	0.5	72.2	12.4	3.5	2.2	3.5	2.2	23.8	0.9	2.6	27.3
ICS-F-SE-9-112712													
ICS-G-SE-1-112812													
ICS-G-SE-2-112812													
ICS-G-SE-3-112812													
ICS-DUP1-SE-112812													
ICS-G-SE-4-112812													
ICS-G-SE-5-112812													
ICS-G-SE-6-112812		*grain size analyses: % retained in each size fraction*											
ICS-H-SE-1-112812													
ICS-H-SE-2-112812													
ICS-H-SE-3-112812													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Subsurface Sediment Analyses, November - December 2012

Field I.D.	gravel > 4750 µm	coarse sand 4750 - 2000 µm	medium sand 2000 - 425 µm	fine sand 425 - 75 µm	v. coarse silt 75 - 32 µm	coarse silt 32 - 22 µm	medium silt 22 - 13 µm	fine silt 13 - 7 µm	v. fine silt 7 - 3.2 µm	total silt 32 - 3.2 µm	clay 3.2 - 1.3 µm	clay < 1.3 µm	total fines < 32 µm
	%	%	%	%	%	%	%	%	%	%	%	%	%
ICS-H-SE-4-112812													
ICS-I-SE-1-112812													
ICS-I-SE-2-112812													
ICS-I-SE-3-112812	8.7	1.7	1.5	3.3	10.0	10.1	13.4	19.3	14.3	67.1	9.2	8.4	84.7
ICS-I-SE-4-112812													
ICS-I-SE-5-112812	0.3	1.1	3.7	62.3	12.8	6.1	2.6	4.3	3.0	28.8	1.3	2.6	32.7
ICS-I-SE-6-112812													
ICS-J-SE-1-112812													
ICS-J-SE-2-112812													
ICS-J-SE-3-112812													
ICS-J-SE-4-112812													
ICS-J-SE-5-112812													
ICS-J-SE-6-112812													
ICS-K-SE-1-113012													
ICS-K-SE-2-113012													
ICS-DUP2-SE-113012													
ICS-K-SE-3-113012													
ICS-K-SE-4-113012													
ICS-K-SE-5-113012													
ICS-L-SE-1-113012													
ICS-L-SE-2-113012													
ICS-L-SE-3-113012													
ICS-L-SE-4-113012													
ICS-L-SE-5-113012													
ICS-M-SE-1-113012													
ICS-M-SE-2-113012													
ICS-M-SE-3-113012													
ICS-DSS-01-SE-121012													

grain size analyses: % retained in each size fraction

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: October 11, 2013

SUBJECT: Data Evaluation/Assessment for one Soil and 10 Subsurface Sediment Samples Collected during October - November 2012 from the ICS / [former] NW Cooperage Site, Seattle, WA – Supplemental Analyses

One soil and ten sediment samples collected by Dalton, Olmsted & Fuglevand (DOF) staff during October and November of 2012 were removed from frozen archival storage and thawed for preparation of analyses of selected parameters. These samples were delivered to Analytical Resources Inc. (ARI) of Tukwila, Washington within one week of collection. Samples were received on ice at temperatures between 0.9 and 4.0 degrees C, and maintained at the project laboratory at -20 degrees C prior to analyses. No chemical preservatives were specified nor required.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012). The extended holding time at -20 degrees C is consistent with EPA Region 10 guidance for sample handling and storage. The sample holding time for mercury analyses is outside the recommended limits of 28 days, however, this deviation is unlikely to adversely affect the data quality for mercury results. All analyses were performed by methods presented in Table SAP-3 of the SAP.

SVOC's	SW846-M.8270	TOC	Plumb, 1981 (PSEP)
selected SVOC's	M.8270 - SIM	chlor. pesticides	SW846-M.8081
PCB's as Aroclors	SW846-M.8082	metals (exc Hg)	SW846-M.6020A
Hg	SW846-M.7471A	total petroleum HC's	NWTPH-Dx

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 with GPC cleanup of extracts in full-scan mode, and selected analytes were further analyzed and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. These selected analytes include 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine (as diphenylamine), benzyl alcohol, and pentachlorophenol. Results for detected analytes were reported from the full-scan analyses or from the mode that yielded non-qualified data. For nondetected analytes, the lowest reporting limit between the two analytical modes was reported in the attached results table; generally from the SIM mode of analyses.

PCB's extracts were subjected to silica gel and strong-acid cleanups, as well as elemental [polymeric] sulfur (S_x) removal, prior to instrumental analyses. Chlorinated pesticides extracts were subjected to GPC, silica gel and S_x removal cleanup steps. TPH-Dx analyses were performed with silica gel and acid cleanup procedures on sample extracts.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Mercury results are not expected to be adversely affected by the extended holding time, however, the results are qualified as estimated with the "J_{HT}" qualifier code due to exceedance of the recommended holding time. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications, with the exception of mercury results as noted above.

Generally, [lower] **reporting limits** were consistent with specified-limits presented in the SAP (table SAP-3) and achieved the sediment PQL goals when contaminant levels allowed it. Exceptions are noted principally for organic compound analytes due to presence of chemical interferents and elevated levels of other target analytes. Specifically, sample F-SE-2 required extract dilutions due to elevated levels of organic contaminants, principally diesel-range petroleum hydrocarbons resulting in the elevation of most analyte nondetection reporting limits. Samples LP3-SO-D, B-SE-4, F-SE-2 I-SE-4 and K-SE-3 exhibited elevated levels of PCBs resulting in subsequent elevation of lower reporting limits for many of the chlorinated pesticide target analytes due to extract dilutions and associated instrumental interferences. Some Aroclors (commercial PCB mixtures) were reported with elevated reporting limits or nondetects due to elevated levels of other detected Aroclors that have the potential to contribute overlapping signals. Considerable effort was made by the analysts to achieve the specified lower reporting limits when the sample matrix and chemical interferences would allow it. Analyte concentrations reported at less than the lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of diethylphthalate at 30 µg/kg. Diethylphthalate results were qualified with the "J_B" qualifier code when results have the potential to be significantly impacted by laboratory background levels, up to 1.5x the level reported in the method blank (with consideration of extracted sample sizes and extract dilutions/volumes). Six sample results required "J_B" qualification. No other data required qualification due to method blanks performance.

No field equipment **rinsate blanks** were specified in the project SAP nor were any collected.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. Hexachloroethane MS and MSD recoveries in sample F-SE-4 were reported at 2.2% and 7.6%, while the LCS recovery was 71.2%. No hexachloroethane was detected in site samples and no results were qualified. N-Nitrosodiphenylamine MS/MSD recoveries during M.8270-SIM analyses were reported at 18.5 and 26.7%, while the LCS recovery was 86.2%. No N-nitrosodiphenylamine was detected in site

samples and no results were qualified. MS/MSD recoveries for chlorinated pesticides in sample K-SE-3 were generally high and associated with elevated background interferences. LCS recoveries for α-BHC and hexachlorobenzene (HCB) were slightly low at 63.5 and 56.5%, respectively. MS/MSD recoveries for PCBs in J-SE-4 were slightly low and ranged from 59.4 to 63.1% (for Aroclors 1016 and 1260), while LCS recoveries were within specified ranges. No significant adverse effects on data quality are anticipated as a consequence. Antimony (Sb) matrix spike recovery in LP3-SO-D is reported low at 7.0%. Sb LCS and SRM recoveries are determined to be acceptable. This behavior for Sb is typical due to formation of Sb-SiO_4 complexes in the presence of soil minerals; however, no positive hits for Sb are reported and the lower reporting limits should be considered biased low. Recoveries of spike analytes for all analyses were determined to be acceptable, with the exceptions noted above. No sample results are qualified due to spike recoveries

Surrogate compound recoveries (for organic analytes) were evaluated for SVOC's, TPH-Dx, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), and PCB's. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance. *o*-Terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. The SVOC surrogate, d_5-nitrobenzene, exhibited high recoveries (161%) for the initial and confirmatory analyses performed for F-SE-4, while all other surrogate recoveries were within specified ranges. All other surrogate compound performances were within specified acceptance ranges. No qualification of results was required due to surrogate compounds performance.

SVOC continuing calibration verification (CCV) checks revealed lower-than-specified responses for benzoic acid and pentachlorophenol (PCP). Positive (detectable) sample results for benzoic acid and PCP are consequently considered estimates and qualified with the "J_Q" qualifier code.

TPH-Dx analytical results are highlighted with **bold-type** values when the associated profiles resemble the respective calibrant/reference mixtures, such as diesel fuel (for DRO) and/or motor/lubricant oil (for RRO). All other non-bolded TPH-Dx values are associated with presence of discrete organic compounds and not petroleum hydrocarbon mixtures.

Examination of the raw GC/MS (M.8270) data files was performed for confirmation of selected pesticides results reported from M.8081 analyses, when appropriate. Nontarget chemical interferences elevated the reporting limits and interfered with accurate reporting of Heptachlor, Heptachlor epoxide, and the DDT analogs in the B-SE-4 extract. Lower reporting limits for these selected analytes in B-SE-4 were taken from M.8270 analyses and provided in the attached results table. It is also noted that the single soil sample (LP3-SO-D) contains multiple silane compounds, possibly associated with silicon oil, and *bis*Phenol A.

Sample results reported here are determined to be in general compliance with method and SAP requirements. Most deviations of data quality from SAP and method specifications are associated with generally elevated levels of multiple contaminants in site samples. All reported data for site samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	TOC	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3	Copper 7440-50-8
					%	%	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-LP3-SO-D-101512	soil	10/15/2012	15 - 16'	1318483-XD56A	80		0.2 U	**1.5**	0.2 U	**0.2**	**18.0**	**11.7**
ICS-A-SE-6-112612	sediment	11/26/2012	mid = 6.3'	1318484-XD56B	59	**3.22**	0.3 U	**9.5**	**0.6**	**0.2**	**25.7**	**49.3**
ICS-A-SE-7-112612	sediment	11/26/2012	mid = 7.2'	1318485-XD56C	62	**4.22**	0.3 U	**9.2**	**0.6**	**0.2**	**23.3**	**43.5**
ICS-B-SE-4-112712	sediment	11/27/2012	mid = 4.4'	1318486-XD56D	64	**3.37**	0.3 U	**9.4**	0.3 U	**1.1**	**45.8**	**133**
ICS-B-SE-6-112712	sediment	11/27/2012	mid = 6.6'	1318487-XD56E	60	**2.66**	0.3 U	**10.1**	**0.6**	**0.3**	**25.4**	**50.6**
ICS-D-SE-5-112712	sediment	11/27/2012	mid = 6.7'	1318488-XD56F	61	**2.26**	0.3 U	**9.4**	**0.5**	**0.2**	**25.1**	**46.6**
ICS-F-SE-2-112712	sediment	11/27/2012	mid = 1.7'	1318489-XD56G	56	**3.15**	0.3 U	**12.7**	0.3 U	**3.4**	**114**	**56.6**
ICS-F-SE-4-112712	sediment	11/27/2012	mid = 4.5'	1318490-XD56H	60	**2.22**	0.3 U	**8.7**	**0.6**	**0.2**	**24.7**	**46.1**
ICS-I-SE-4-112812	sediment	11/28/2012	mid = 5.9'	1318491-XD56I	61	**2.84**	0.3 U	**11.1**	**0.5**	**0.2**	**26.3**	**58.5**
ICS-J-SE-4-112812	sediment	11/28/2012	mid = 6.8'	1318492-XD56J	66	**0.961**	0.3 U	**6.1**	0.3 U	0.1 U	**16.0**	**22.3**
ICS-K-SE-3-113012	sediment	11/30/2012	mid = 3.8'	1318493-XD56K	88	**0.879**	0.2 U	**4.1**	0.2 U	**0.2**	**26.4**	**25.1**

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	Lead 7439-92-1 mg/kg, dry	Mercury 7439-97-6 mg/kg, dry	Nickel 7440-02-0 mg/kg, dry	Silver 7440-22-4 mg/kg, dry	Zinc 7440-66-6 mg/kg, dry	Total Petroleum Hydrocarbons ** Diesel-range mg/kg, dry	Total Petroleum Hydrocarbons ** Lube-range mg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry
ICS-LP3-SO-D-101512	**23.3**	**0.08 J_{HT}**	**11.7**	0.2 U	**35**	92	**170**	**36**	19 U	4.8 U
ICS-A-SE-6-112612	**12.4**	**0.15 J_{HT}**	**24.0**	0.3 U	**72**	29	58	**61**	20 U	5.0 U
ICS-A-SE-7-112612	**10.4**	**0.14 J_{HT}**	**20.3**	0.3 U	**63**	44	77	**66**	19 U	4.8 U
ICS-B-SE-4-112712	**218**	**1.84 J_{HT}**	**17.8**	0.3 U	**286**	**4200**	**10,000**	**96**	52 U	**160**
ICS-B-SE-6-112712	**13.3**	**0.19 J_{HT}**	**24.6**	0.3 U	**74**	47	100	**42**	20 U	4.9 U
ICS-D-SE-5-112712	**11.6**	**0.15 J_{HT}**	**21.9**	0.3 U	**67**	43	76	**76**	19 U	4.8 U
ICS-F-SE-2-112712	**4380**	**0.29 J_{HT}**	**23.2**	0.3 U	**1420**	**12,000**	2100	300 U	300 U	**13 J**
ICS-F-SE-4-112712	**11.5**	**0.16 J_{HT}**	**23.0**	0.3 U	**70**	43	72	**38**	20 U	4.9 U
ICS-I-SE-4-112812	**38.5**	**0.24 J_{HT}**	**22.0**	0.3 U	**91**	61	120	**30**	19 U	4.8 U
ICS-J-SE-4-112812	**11.4**	**0.08 J_{HT}**	**11.7**	0.3 U	**51**	40	72	**20**	19 U	4.7 U
ICS-K-SE-3-113012	**79.3**	**0.38 J_{HT}**	**21.2**	0.2 U	**70**	70	**180**	19 U	19 U	**3.0 J**

*** bold-typed values resemble corresponding petroleum hydrocarbon mixture*
DRO = C_{12} - C_{24}; RRO = C_{24} - C_{38}

J = estimate associated with value less than the verifiable lower quantitation limit.
J_{HT} = estimate; due to exceedance of recommended holding time.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry	N-Nitroso-di-n-propylamine 621-64-7 µg/kg, dry	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry
ICS-LP3-SO-D-101512	**4.5 J**	19 U	**14**	**21**	**40**	19 U	19 U	19 U	19 U	**34**	190 U	96 U
ICS-A-SE-6-112612	5.0 U	**190**	5.0 U	**6.8**	**50**	20 U	20 U	20 U	20 U	25 U	**470 J_Q**	99 U
ICS-A-SE-7-112612	4.8 U	**140**	4.8 U	**6.5**	**41**	19 U	19 U	19 U	19 U	24 U	**380 J_Q**	95 U
ICS-B-SE-4-112712	**370**	52 U	**150**	**42**	**55**	52 U	52 U	52 U	52 U	**120**	520 U	260 U
ICS-B-SE-6-112712	4.9 U	**160**	4.9 U	**5.1**	**32**	20 U	20 U	20 U	20 U	25 U	**310 J_Q**	98 U
ICS-D-SE-5-112712	4.8 U	**170**	4.8 U	**8.0**	**44**	19 U	19 U	19 U	19 U	24 U	**540 J_Q**	96 U
ICS-F-SE-2-112712	**11 J**	59 U	**9.5 J**	15 U	300 U	300 U	300 U	300 U	300 U	**890**	3000 U	1500 U
ICS-F-SE-4-112712	4.9 U	**120**	4.9 U	**4.5 J**	**24**	20 U	20 U	20 U	20 U	24 U	**230 J_Q**	98 U
ICS-I-SE-4-112812	4.8 U	**72**	**3.0 J**	**3.9 J**	**21**	19 U	19 U	19 U	19 U	24 U	190 U	97 U
ICS-J-SE-4-112812	4.7 U	**37**	4.7 U	**2.9 J**	**49**	19 U	19 U	19 U	19 U	24 U	190 U	95 U
ICS-K-SE-3-113012	**5.0**	19 U	**3.1 J**	4.7 U	19 U	19 U	19 U	19 U	19 U	24 U	190 U	94 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry
ICS-LP3-SO-D-101512	**7.0**	**180**	96 U	**180**	96 U	19 U	19 U	19 U	**42**	**32**
ICS-A-SE-6-112612	5.0 U	**71**	99 U	**44**	99 U	20 U	20 U	**19 J**	**27**	**39**
ICS-A-SE-7-112612	4.8 U	**52**	95 U	**39**	95 U	19 U	19 U	19 U	**25**	**37**
ICS-B-SE-4-112712	**52**	**120**	260 U	**180**	260 U	52 U	52 U	**99**	**220**	**100**
ICS-B-SE-6-112712	4.9 U	**73**	98 U	**48**	98 U	20 U	20 U	20 U	**32**	**45**
ICS-D-SE-5-112712	4.8 U	**77**	96 U	**63**	96 U	19 U	19 U	19 U	**23**	**47**
ICS-F-SE-2-112712	15 U	**17,000**	1500 U	**62,000**	1500 U	300 U	300 U	**900**	**980**	**1600**
ICS-F-SE-4-112712	4.9 U	**72**	98 U	**120**	98 U	20 U	20 U	20 U	**22**	**38**
ICS-I-SE-4-112812	4.8 U	**56**	97 U	**19**	97 U	19 U	19 U	19 U	**290**	**40**
ICS-J-SE-4-112812	4.7 U	**53**	95 U	**43**	95 U	19 U	19 U	**24**	**19**	**24**
ICS-K-SE-3-113012	**3.8 J**	19 U	94 U	**13 J**	94 U	19 U	19 U	19 U	**18 J**	**17 J**

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry	Pyrene 129-00-0 µg/kg, dry
ICS-LP3-SO-D-101512	96 U	96 U	**39 J_B**	19 U	**53**	4.8 U	**72 J_Q**	**210**	**30**	**35**	**59**	**110**	**100**
ICS-A-SE-6-112612	99 U	99 U	**27 J_B**	20 U	**44**	5.0 U	20 U	**150**	20 U	**29**	20 U	**110**	**100**
ICS-A-SE-7-112612	95 U	95 U	**24 J_B**	19 U	**39**	4.8 U	19 U	**130**	19 U	**33**	19 U	**130**	**110**
ICS-B-SE-4-112712	260 U	260 U	**220**	52 U	**260**	13 U	52 U	**630**	52 U	**160**	52 U	**1700**	**980**
ICS-B-SE-6-112712	98 U	98 U	**20 J_B**	20 U	**54**	4.9 U	20 U	**170**	20 U	**28**	20 U	**130**	**110**
ICS-D-SE-5-112712	96 U	96 U	19 U	19 U	**40**	4.8 U	19 U	**140**	19 U	**34**	19 U	**140**	**120**
ICS-F-SE-2-112712	1500 U	1500 U	300 U	300 U	**5000**	15 U	59 U	**6800**	300 U	**440**	300 U	**860**	**740**
ICS-F-SE-4-112712	98 U	98 U	**35 J_B**	20 U	**42**	4.9 U	20 U	**130**	20 U	**24**	20 U	**100**	**93**
ICS-I-SE-4-112812	97 U	97 U	**80**	19 U	**59**	4.8 U	19 U	**67**	19 U	**25**	19 U	**130**	**130**
ICS-J-SE-4-112812	95 U	95 U	**42 J_B**	19 U	**21**	4.7 U	19 U	**90**	19 U	**20**	19 U	**87**	**89**
ICS-K-SE-3-113012	94 U	94 U	**86**	19 U	**12 J**	4.7 U	19 U	**34**	19 U	**15 J**	19 U	**36**	**76**

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = associated value may be biased high due to contribution from laboratory background or method blank.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
ICS-LP3-SO-D-101512	**43**	**46**	**270**	**54**	19 U	**78**	**40**	**22**	19 U	**26**	520	476
ICS-A-SE-6-112612	**8.2**	**30**	50 U	**47**	20 U	**56**	20 U	**20**	20 U	**31**	340	394
ICS-A-SE-7-112612	**6.6**	**35**	48 U	**47**	19 U	**59**	19 U	**18 J**	19 U	**24**	279	423
ICS-B-SE-4-112712	13 U	**280**	**2900**	**480**	52 U	**460**	**200**	**83**	52 U	**83**	1489	4266
ICS-B-SE-6-112712	**5.2**	**33**	**37 J**	**45**	20 U	**56**	20 U	**17 J**	20 U	**25**	357	416
ICS-D-SE-5-112712	**5.0**	**39**	48 U	**50**	19 U	**66**	19 U	**18 J**	19 U	**23**	314	456
ICS-F-SE-2-112712	15 U	**280 J**	740 U	**410**	300 U	**410 J**	**220 J**	300 U	300 U	300 U	31,020	2920
ICS-F-SE-4-112712	4.9 U	**29**	49 U	**37**	20 U	**51**	20 U	**15 J**	20 U	**20**	290	345
ICS-I-SE-4-112812	**9.5**	**42**	48 U	**45**	19 U	**80**	19 U	**18 J**	19 U	**22**	497	467
ICS-J-SE-4-112812	**48**	**19**	47 U	**23**	19 U	**34 J**	19 U	19 U	19 U	**10 J**	227	262
ICS-K-SE-3-113012	**5.1**	**31**	**120**	**67**	19 U	**56**	**22**	19 U	19 U	19 U	79	288

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry
ICS-LP3-SO-D-101512	2.4 U	2.4 U	2.4 U	2.4 U	6.5 U	2.4 U	28 U	2.4 U	17 U	**50 J_P**
ICS-A-SE-6-112612	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U
ICS-A-SE-7-112612	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.77 U	0.96 U	0.48 U	0.96 U	0.96 U
ICS-B-SE-4-112712	39 U	250 U	39 U	110 U	110 U	39 U	110 U	39 U	78 U	52 U
ICS-B-SE-6-112712	0.50 U	1.1 U	1.3 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U
ICS-D-SE-5-112712	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U
ICS-F-SE-2-112712	5.1 U	14 U	7.4 U	5.9 U	7.2 U	4.1 U	12 U	6.6 U	6.7 U	13 U
ICS-F-SE-4-112712	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U
ICS-I-SE-4-112812	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	6.3 U	11 U	2.4 U	4.9 U	**53 J_P**
ICS-J-SE-4-112812	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	1.0 U	0.50 U	1.0 U	1.0 U
ICS-K-SE-3-113012	2.4 U	4.4 U	2.4 U	2.4 U	4.1 U	2.4 U	25 U	2.4 U	4.7 U	**56 J_P**

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry	Endrin aldehyde 7421-93-4 µg/kg, dry	*trans* - Chlordane 5103-74-2 µg/kg, dry	*cis* - Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry
ICS-LP3-SO-D-101512	4.9 U	4.9 U	**24 J_P**	4.9 U	35 U	24 U	20 U	4.9 U	2.4 U	2.4 U	120 U
ICS-A-SE-6-112612	0.96 U	0.96 U	0.96 U	0.96 U	1.3 U	4.8 U	0.96 U	0.96 U	0.94 U	0.48 U	24 U
ICS-A-SE-7-112612	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U
ICS-B-SE-4-112712	550 U	78 U	52 U	78 U	52 U	390 U	510 U	78 U	39 U	39 U	2700 U
ICS-B-SE-6-112712	1.0 U	1.0 U	1.0 U	1.0 U	1.6 U	5.0 U	1.0 U	1.0 U	2.1 U	0.50 U	25 U
ICS-D-SE-5-112712	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U	0.97 U	0.88 U	0.49 U	24 U
ICS-F-SE-2-112712	4.8 U	4.8 U	4.8 U	4.8 U	6.4 U	24 U	4.8 U	7.3 U	3.2 U	2.4 U	120 U
ICS-F-SE-4-112712	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	25 U
ICS-I-SE-4-112812	4.9 U	4.9 U	**6.8**	4.9 U	9.7 U	24 U	4.9 U	4.9 U	10 U	2.4 U	120 U
ICS-J-SE-4-112812	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	4.1 U	1.0 U	1.5 U	0.50 U	25 U
ICS-K-SE-3-113012	4.7 U	4.7 U	**29 J_P**	4.7 U	33 U	24 U	25 U	4.7 U	14 U	2.4 U	120 U

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081).
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Supplemental Soil & Subsurface Sediment Analyses, October - November 2012

Field I.D.	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachloro-butadiene 87-68-3 µg/kg, dry	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-LP3-SO-D-101512	4.9 U	4.9 U	39 U	39 U	**460**	**380**	**210**	39 U	39 U	1050
ICS-A-SE-6-112612	0.96 U	0.96 U	3.8 U	3.8 U	4.8 U	3.8 U	3.8 U	3.8 U	3.8 U	4.8 U
ICS-A-SE-7-112612	0.96 U	0.96 U	3.8 U	3.8 U	6.3 U	3.8 U	3.8 U	3.8 U	3.8 U	6.3 U
ICS-B-SE-4-112712	130 U	78 U	1500 U	1500 U	**23,000**	**12,000**	**9100**	1500 U	1500 U	44,100
ICS-B-SE-6-112712	1.0 U	1.0 U	4.0 U	4.0 U	5.6 U	4.0 U	4.0 U	4.0 U	4.0 U	5.6 U
ICS-D-SE-5-112712	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-F-SE-2-112712	4.8 U	4.8 U	3.8 U	3.8 U	130 U	**160**	**170**	3.8 U	3.8 U	330
ICS-F-SE-4-112712	0.99 U	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-I-SE-4-112812	4.9 U	4.9 U	3.9 U	3.9 U	**70**	**46**	**27**	3.9 U	3.9 U	143
ICS-J-SE-4-112812	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-K-SE-3-113012	4.7 U	4.7 U	38 U	38 U	**760**	**590**	**260**	38 U	38 U	1610

U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: October 14, 2014

SUBJECT: Data Evaluation/Assessment for Six Surface Sediment Samples Collected during September 2014 from the ICS / [former] NW Cooperage Site, Seattle, WA

Six surface (0-10 cm depth) sediment samples were collected by Dalton, Olmsted & Fuglevand (DOF) staff on September 19, 2014 for the evaluation of sediment quality. Sediment samples were delivered in a single delivery group to Analytical Resources Inc. (ARI) of Tukwila, Washington within approximately 2 hours of collection. Samples were received on ice at 14.2 degrees C. All samples were maintained at the project laboratory at 4 degrees C prior to analyses. No chemical preservatives were specified nor required.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and [Draft Tech Memo] *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, prepared by DOF, October 3, 2014 to Washington State Department of Ecology. All analyses were performed by methods (or their equivalent) presented in Attachment D of the Tech Memo.

PCB's as Aroclors	SW846-M.8082	metals (exc Hg)	SW846-M.6010C
		Hg	SW846-M.7470A & M.7471A

Toxicity characteristic leaching procedure (TCLP by SW846-M.1311) metals and total (bulk) metals determinations were performed on all six sediments. TCLP metals were [anaerobically] extracted from sediments with 20x by weight of acetate-buffered extraction fluid at pH 4.93. The filtered extraction fluid was subsequently analyzed for the target metals in each leachate/extract. Method options employed for the analyses of PCB's included extraction by M.3580A, elemental sulfur (Sx) removal, strong acid cleanup, and silica gel cleanup steps.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Samples were received above the specified holding temperature of 4 degrees C, however, this is consequent to the short holding

time (2 hr) during transport where the samples did not have sufficient contact time with the ice to cool to the specified temperature. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications.

Achievement of [lower] **reporting limits** consistent with specified-limits presented in the SAP (table SAP-3) and the sediment PQL goals are generally irrelevant for this data set, since these samples were selected to confirm elevated concentrations of contaminants reported in previous monitoring efforts. The reporting limits achieved for sediment concentrations are sufficient to meet the objectives of this monitoring effort. TCLP extract reporting limits for metals are sufficiently low for comparison to the applicable thresholds of concern.

Method blanks were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, and no data required qualification due to method blanks performance.

No field equipment **rinsate blanks** were specified in the project SAP nor were any collected.

Recovery evaluation for PCB's were determined by the employment of surrogate compounds and laboratory control samples (**LCS/LCSD**). Two LCS/LCSD pairs were analyzed and reported recoveries of Aroclors 1016 and 1260 in the range of 73.2 – 97.2%. No matrix spike analyses were performed for PCB's analyses. Metals recovery performance in bulk sediments were assessed with a matrix spike (**MS**) and an LCS. The MS was performed on sediment sample SED1 and revealed a near 0% recovery for barium (Ba), and nonevaluable recoveries for chromium (Cr) and mercury (Hg) due to elevated native levels interfering with low spike concentrations. Metals (solid) LCS recoveries reported acceptable performance and Ba at 106%. Due to the apparent low recovery of the MS for Ba in SED1 (the sample reports a Ba concentration of 361 mg/kg), the associated result is qualified with the "J_R" code to indicate the matrix spike recovery is low and reported result is potentially biased low. TCLP extract recoveries for metals were evaluated with a single MS in sample extract SED1 and revealed acceptable performance for all analytes in the range of 102 – 110%. Recoveries of spike analytes for all analyses were determined to be acceptable, with the exception noted above for barium in a single sample, requiring qualification of associated result as an estimate with the "J_R" code.

Surrogate compound recoveries (for organic analytes) were evaluated for PCB's. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of PCB's analytical performance. All surrogate compound performances were within specification (laboratory acceptance range = 30-160%), where measurable. The PCB's surrogate, DCBP, in SED2 and LDWSS84 showed immeasurable performance due to interference from small additional contributions from elevated levels of [native] Aroclor 1260 (Aroclor 1260 contains small amounts of DCBP). No qualification of results was required due to surrogate compounds performance.

No blind **field duplicate** samples were collected for the assessment of monitoring variability for this event.

Dual-column analyses were performed for PCB's (M.8082), as specified. Variability in responses between the two columns is specified to be less than 40% RPD for compound identification and assignment. No deviations from the specification were reported.

Sample results reported here are determined to be in general compliance with method, Tech Memo, and SAP requirements. All reported data for sediment samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Data Gap Analyses, September 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids %	Arsenic 7440-38-2 mg/kg, dry	Barium 7440-39-3 mg/kg, dry	Cadmium 7440-43-9 mg/kg, dry	Chromium 7440-47-3 mg/kg, dry	Lead 7439-92-1 mg/kg, dry
ICS-SED1-SE-091914	sediment	9/19/2014	0 - 10 cm	1419341-ZA94A	48	30 U	**361 J_R**	**47**	**2940**	**6330**
ICS-SED2-SE-091914	sediment	9/19/2014	0 - 10 cm	1419342-ZA94B	53	**30**	**221**	**3.7**	**465**	**4080**
ICS-LDWSS84-SE-091914	sediment	9/19/2014	0 - 10 cm	1419343-ZA94C	54	9 U	**77.8**	**1.0**	**60.7**	**226**
ICS-SED4-SE-091914	sediment	9/19/2014	0 - 10 cm	1419344-ZA94D	73	6 U	**18.5**	0.3 U	**17.7**	**30**
ICS-B5a2-SE-091914	sediment	9/19/2014	0 - 10 cm	1419345-ZA94E	62	8 U	**49.7**	**0.6**	**55.5**	**136**
ICS-DDS26-SE-091914	sediment	9/19/2014	0 - 10 cm	1419346-ZA94F	68	20 U	**107**	**0.9**	**151**	**665**

U = nondetected at the associated lower reporting limit.

J_R = estimate; due to low matrix spike recovery. Value likely biased low.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Data Gap Analyses, September 2014

Field I.D.	Mercury 7439-97-6 mg/kg, dry	Selenium 7782-49-2 mg/kg, dry	Silver 7440-22-4 mg/kg, dry	TCLP Arsenic 7440-38-2 mg/L	TCLP Barium 7440-39-3 mg/L	TCLP Cadmium 7440-43-9 mg/L	TCLP Chromium 7440-47-3 mg/L	TCLP Lead 7439-92-1 mg/L	TCLP Mercury 7439-97-6 mg/L	TCLP Selenium 7782-49-2 mg/L	TCLP Silver 7440-22-4 mg/L
ICS-SED1-SE-091914	**61**	30 U	**5**	0.2 U	**1.39**	0.01 U	**0.03**	0.1 U	0.0001 U	0.2 U	0.02 U
ICS-SED2-SE-091914	**9.0**	20 U	1 U	0.2 U	**0.64**	0.01 U	0.02 U	0.1 U	0.0001 U	0.2 U	0.02 U
ICS-LDWSS84-SE-091914	**0.78**	9 U	0.5 U	0.2 U	**0.06**	0.01 U	0.02 U	**0.2**	0.0001 U	0.2 U	0.02 U
ICS-SED4-SE-091914	**0.06**	6 U	0.4 U	0.2 U	**0.02**	0.01 U	0.02 U	0.1 U	0.0001 U	0.2 U	0.02 U
ICS-B5a2-SE-091914	**0.18**	8 U	0.5 U	0.2 U	**0.18**	0.01 U	0.02 U	**0.6**	0.0001 U	0.2 U	0.02 U
ICS-DDS26-SE-091914	**0.47**	20 U	1 U	0.2 U	**0.22**	0.01 U	0.02 U	**0.2**	0.0001 U	0.2 U	0.02 U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Data Gap Analyses, September 2014

Field I.D.	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-SED1-SE-091914	82,000 U	82,000 U	**630,000**	**770,000**	**200,000**	82,000 U	82,000 U	1,600,000
ICS-SED2-SE-091914	470 U	470 U	**12,000**	**18,000**	**5500**	470 U	470 U	35,500
ICS-LDWSS84-SE-091914	180 U	180 U	**2000**	**2600**	**1800**	180 U	180 U	6400
ICS-SED4-SE-091914								
ICS-B5a2-SE-091914								
ICS-DDS26-SE-091914								

U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: December 19, 2014

SUBJECT: Data Evaluation/Assessment for 10 Groundwaters Collected from Soil Push-Probes during November 2014 from the ICS / [former] NW Cooperage Site, Seattle, WA

Ten water samples developed from soil push-probes were collected by Dalton, Olmsted & Fuglevand (DOF) staff during November, 2014 for chemical characterization. All samples were delivered in five delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 21.5 hours of collection. Samples were received on ice at temperatures between 0.2 and 3.2 degrees C, and maintained at the project laboratory at 4 degrees C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. Four trip/transport blanks were also submitted and analyzed for TPH-G and VOC's for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Table SAP-4 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. pesticides	SW846-M.8081B	SVOC's (PAH's)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. phenols	SW846-M.8041
metals (excl Hg)	SW846-M.6010C & EPA 200.8	Hg (low-level)	SW846-M.7470A
total petroleum HC's	NWTPH-Dx & -G	Cl & SO_4	EPA 300.0
hexavalent chromium	SW846-M.7196A		

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed (on the same extract) and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. Anthracene reported from the analysis of groundwater from ICS-P12-W by

M.8270D (full-scan) did not satisfy all identification criteria at a level of 1.3 µg/L due to possible interference, whereas the analysis of the same extract by M.8270-SIM reported anthracene as not detected at 0.10 µg/L (U). The nondetected value is reported in the attached results table. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C). A comparison of results from the two methods shows a detection of 1,4-dichlorobenzene at 1.4 µg/L by M.8260C and 0.9 J µg/L by M.8270D for ICS-P23-W; thus reporting results are generally comparable and consistent. The attached results table reports only the result from the VOC's analyses due to lower reporting limits. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC-SIM (M.8270-SIM) and chlorinated pesticides (by M.8081B) methods, respectively. A comparison of results from the two methods shows naphthalene at 0.50 U µg/L (nondetected) by M.8260C and 0.14 µg/L by M.8270D for ICS-P14-W, 3.3 B µg/L (potentially affected by blank contributions) by M.8260C and 1.4 µg/L by M.8270D (no data quality limitations) for ICS-P15-W, 2.5 U µg/L (nondetected) by M.8260C and 0.14 µg/L by M.8270D (no data quality limitations) for ICS-P12-W; thus reporting results for naphthalene (when detected) are generally comparable and consistent. The lower reporting limit for chlorinated phenols (2,4,6-trichlorophenol and pentachlorophenol) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and acid cleanup steps.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA, with the exception of hexavalent chromium (Cr(VI)) in ICS-P27A-W and ICS-P27B-W. The recommended maximum holding time for Cr(VI) is 24 hours and the reported holding time for these analyses was 48 hours. Dissolved chromium (by Method 200.8) in the two samples was either nondetected or detected at the lower reporting limit (at 1 µg/L), indicating the reported nondetects (at 10 µg/L U) for Cr(VI) to be acceptable. A mislabel was noted on the C-O-C/Analytical Request form for ICS-P12-W while the sample vials were correctly labeled. Subsequent documentation was correctly labeled. Sample holding times/conditions are determined to be acceptable or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. Some Aroclors (commercial PCB mixtures) were reported with slightly elevated reporting limits or nondetects due to elevated or busy baselines; specifically for sample ICS-P27B-W. Analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of the following:

Analyte	Analysis date	Conc. (µg/L)
Hexachlorobutadiene (VOC's)	11-18-14	0.41
	11-20-14	0.37
	11-24-14	ND
Methylene chloride (VOC's)	11-18-14	ND
	11-20-14	0.89
	11-24-14	ND
n-Butylbenzene (VOC's)	11-18-14	0.11
	11-20-14	ND
	11-24-14	ND
Naphthalene (VOC's)	11-18-14	0.19
	11-20-14	ND
	11-24-14	ND
1,2,3-Trichlorobenzene (VOC's)	11-18-14	0.12
	11-20-14	0.19
	11-24-14	ND

No hexachlorobutadiene (HCBD) was detected in any of the project samples during analyses of VOC's by M.8260C. HCBD however was reported in the attached results table from the analyses of chlorinated pesticides by M.8081B due to lowered reporting limits. No n-butylbenzene or 1,2,3-trichlorobenzene was detected in any project samples. Naphthalene was not reported from the analyses performed by M.8260C (VOC's), therefore results did not require qualification. Methylene chloride was reported at 0.89 µg/L in one of the three method blanks analyzed. Methylene chloride was also reported as detected in project samples including the four trip/transport blanks. Further evaluation of methylene chloride in project samples is found in the following paragraph. A chloride continuing calibration blank (CCB) reported a detectable value on 11-12-14, however all associated sample results were greater than 10x the CCB value. With the exception of methylene chloride, no results required qualification due to method blanks performance.

No field equipment **rinsate blank**s were generated nor submitted for determination of potential bias associated with field activities. Four **trip/transport blanks** were generated and submitted for analysis and determination of potential contamination during handling of VOC's and TPH-G samples. Results of these analyses are reported in the attached table. Methylene chloride was reported up to 1.5 µg/L in trip/transport blanks; the greatest level reported for any project samples. Based on the levels of methylene chloride reported in laboratory method blanks and in the trip/transport blanks, all reported methylene chloride results are qualified with the "J_B" code as likely associated with sampling/analytical background.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. LCSD recoveries were reported greater than specified for dibromochloromethane and benzo(g,h,i)perylene (by M.8270-SIM) both at 124%, however, no dibromochloromethane or benzo(g,h,i)perylene was reported in any project samples. No associated data required qualification. MS recoveries for Aroclors 1016 and 1260 in ICS-P26-W were reported elevated at 152% and 140%, respectively. These elevated recoveries are believed to be associated with inadvertent double-spiking of the sample since the associated MSD recoveries are reported at one-half of these values. MS recoveries for <u>total</u> antimony (Sb) in

ICS-27A-W and ICS-P20-W are reported low at 71.6% and 69.6%, whereas the dissolved Sb matrix spike recoveries in samples from the same sample locations are within acceptable range (75-125%). MS recoveries for both total and dissolved silver (Ag) in ICS-P13-W were reported low at 48.4% and 49.6%, while associated LCS/LCSD recoveries were within acceptable range. Hexavalent chromium (Cr(VI)) matrix spike recoveries were consistently reported low (0-63%) in the dissolved phase for ICS-P11-W, ICS-P13-W, ICS-P14-W and ICS-P20-W. Post-digestion spikes confirmed presence of matrix interferences most likely chemical reductants preventing stability of oxidized chromium. Duplicate analyses of Cr(VI) in ICS-P13-W reported 15 µg/L and nondetect at 10 U µg/L; the associated total and dissolved chromium for the same sample reported 8 µg/L, which is less than the tentative value of 15 µg/L for Cr(VI). The nondetected result is reported in the attached results table. It is determined that sufficient matrix interferences and chemical reduction potential exists to prevent stability of any hexavalent chromium in project samples. No results required qualification of sample results due to noncompliant analyte recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols. Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM utilized the surrogate compounds d_{10}-2-methylnaphthalene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All surrogate recoveries were within specification, with the following exceptions: d_{14}-terphenyl at 25.2% in ICS-P12-W by M.8270D (acceptance range = 28-130%); and d_{10}-2-methylnaphthalene at 2.7% in ICS-P13-W by M.8270-SIM. Further check of surrogate recoveries in ICS-P13-W by M.8270D using the same extract analyzed by M.8270-SIM reveals acceptable recoveries for all surrogate compounds (47.6-75.7%). Noncompliant or out-of-range recoveries for single surrogate compounds within a chemical compound class do not require qualification of results. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed occasional [minor] noncompliant responses for 1,1,1,2-dichloroethane and hexachlorobutadiene (HCBD) by M.8260C and pentachlorophenol (PCP) by M.8270D. PCP was reported from analyses performed by M.8041 that exhibited acceptable QC measurements, and the affected VOC analytes were all reported as nondetected. No results required further qualification due to CCV or CCAL performance.

TPH-Dx and TPH-G analyses indicate presence of principally weathered gasoline in a sample from ICS-P15-W. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present; weathered gasoline.

U.S. Environmental Protection Agency (EPA) Solid Waste Methods, SW846 Section 4.1.2 identifies acid preservation for aqueous samples containing highly reactive compounds, e.g., styrene and vinyl chloride, as inappropriate due to possible loss by polymerization or other rapid chemical reaction. Due to the broad spectrum analysis requirements for this project, acid preservation to pH < 2 of aqueous samples was implemented. Quality control measurements for this project, such as MS/MSD recoveries for all analytes including styrene and vinyl chloride, revealed acceptable recoveries. Also, vinyl chloride was generally detected and reported for samples containing known reaction precursors. While quality control measures indicate that vinyl chloride and styrene results are valid, it is recommended that additional effort be directed to assessing the validity of application of acid preservation for project samples. This effort would include the analyses of site groundwater samples known or suspect to contain vinyl chloride (and possibly styrene) by collection and analysis of both acid-preserved and nonpreserved samples after 3-4 day and 1-week holding times. This activity could be performed along with the scheduled monitoring of site monitoring wells.

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data for ground water samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7		Cadmium 7440-43-9		Calcium 7440-70-2
					mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424581-ZJ93A	**3790**	**489**		0.5 U		**3**		0.5 U		0.2 U	**69,600**
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424583-ZJ93C			0.5 U		**3**		0.5 U		0.2 U		
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424582-ZJ93B	**5170**	**3.5**		**3.5**		**11**		**0.6**		**1.2**	**553,000**
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424584-ZJ93D			0.5 U		**2**		0.5 U		0.2 U		
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424585-ZJ94A											
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424587-ZJ94C											
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424586-ZJ94B											
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424588-ZJ94D											
ICS-P20-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424610-ZK08A	**16**	**143**		0.2 U		**3.6**		0.2 U		0.1 U	**201,000**
ICS-P20-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424613-ZK08D			0.2 U		**1.6**		0.2 U		0.1 U		
ICS-P23-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424611-ZK08B	**34.6**	**47.2**		**0.5**		**4.1**		0.2 U		0.1 U	**67,400**
ICS-P23-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424614-ZK08E			**0.5**		**3.3**		0.2 U		0.1 U		
Trip Blank	water	11/12/2014	trip/transport blank	1424612-ZK08C											
ICS-P20-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424615-ZK09A											
ICS-P20-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424617-ZK09C											
ICS-P23-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424616-ZK09B											
ICS-P23-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424618-ZK09D											
ICS-P13-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424765-ZK31A	**58.3**	**0.7**		0.5 U		**11.4**		0.2 U		0.2 U	**16,000**
ICS-P13-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424768-ZK31D			0.5 U		**11.1**		0.2 U		0.2 U		
ICS-P26-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424766-ZK31B	**5620**	**589**		1 U		**14**		1 U		0.5 U	**184,000**
ICS-P26-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424769-ZK31E			1 U		**15**		1 U		0.5 U		
Trip Blank	water	11/13/2014	trip/transport blank	1424767-ZK31C											
ICS-P13-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424770-ZK32A											
ICS-P13-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424772-ZK32C											
ICS-P26-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424771-ZK32B											
ICS-P26-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424773-ZK32D											
ICS-P14-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424921-ZK48A	**514**	**1.2**		0.2 U		**0.8**		**0.5**		0.1 U	**48,000**
ICS-P14-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424924-ZK48D			0.2 U		**0.4**		**0.5**		0.1 U		
ICS-P15-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424922-ZK48B	**251**	**11.4**		**1.0**		**12.6**		0.5 U		0.1 U	**13,300**
ICS-P15-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424925-ZK48E			**0.8**		**12.3**		0.5 U		0.1 U		
Trip Blank	water	11/14/2014	trip/transport blank	1424923-ZK48C											
ICS-P14-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424926-ZK49A											
ICS-P14-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424928-ZK49C											
ICS-P15-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424927-ZK49B											
ICS-P15-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424929-ZK49D											
ICS-P11-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424978-ZK73A	**12.1**	**2.9**		0.5 U		**28.0**		0.5 U		0.2 U	**15,400**
ICS-P11-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424981-ZK73D			0.5 U		**28.6**		0.5 U		0.2 U		
ICS-P12-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424979-ZK73B	**73.9**	1.0 U		1 U		**27**		1 U		0.5 U	**27,800**
ICS-P12-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424982-ZK73E			1 U		**28**		1 U		0.5 U		
Trip Blank	water	11/17/2014	trip/transport blank	1424980-ZK73C											
ICS-P11-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424983-ZK74A											
ICS-P11-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424985-ZK74C											
ICS-P12-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424984-ZK74B											
ICS-P12-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424986-ZK74D											

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Chromium 7440-47-3		Hexavalent Chromium	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-P27A-W-111114		**8**			**12**		**1.8**	**173,000**				**7**		0.5 U	**2,460,000**		**20**	890
ICS-P27A-W-111114	**1**		10 U	**2**		0.2 U					**2**		0.5 U			10 U		
ICS-P27B-W-111114		**57**			**116**		**197**	**639,000**				**46**		**0.7**	**2,000,000**		**320**	4000
ICS-P27B-W-111114	1 U		10 U	**2**		0.2 U					**14**		0.5 U			**30**		
ICS-P27A-W-111114										20.0 U								
ICS-P27A-W-111114									20.0 U									
ICS-P27B-W-111114										**182**								
ICS-P27B-W-111114									20.0 U									
ICS-P20-W-111214		**6**			**14**		**1.6**	**46,800**				**14**		0.2 U	**34,800**		**20**	690
ICS-P20-W-111214	0.5 U		10 U	**1.0**		0.1 U					**2.0**		0.2 U			4 U		
ICS-P23-W-111214		**2.1**			**4**		**0.6**	**44,900**				**5**		0.2 U	**22,200**		**10**	350
ICS-P23-W-111214	0.5 U		10 U	0.5 U		0.1 U					**1.4**		0.2 U			**5**		
Trip Blank																		
ICS-P20-W-111214										20.0 U								
ICS-P20-W-111214									20.0 U									
ICS-P23-W-111214										20.0 U								
ICS-P23-W-111214									20.0 U									
ICS-P13-W-111314		**8**			**4.3**		**0.7**	**13,600**				**3.5**		0.5 U	**186,000**		**10**	96
ICS-P13-W-111314	**8**		10 U	**0.8**		**0.1**					**3.5**		0.5 U			**9**		
ICS-P26-W-111314		**3**			**4**		**0.6**	**415,000**				**6**		1 U	**3,200,000**		20 U	2200
ICS-P26-W-111314	2 U		10 U	**3**		0.5 U					**6**		1 U			20 U		
Trip Blank																		
ICS-P13-W-111314										20.0 U								
ICS-P13-W-111314									20.0 U									
ICS-P26-W-111314										20.0 U								
ICS-P26-W-111314									20.0 U									
ICS-P14-W-111414		**5**			**2.0**		**7.0**	**18,100**				**1.8**		0.2 U	**124,000**		**12**	190
ICS-P14-W-111414	2 U		10 U	0.5 U		**0.3**					**1.5**		0.2 U			**6**		
ICS-P15-W-111414		**10**			**2.2**		**3.3**	**2470**				**5.1**		0.2 U	**431,000**		**7**	43
ICS-P15-W-111414	**10**		12 U	0.5 U		**0.1**					**4.8**		0.2 U			4 U		
Trip Blank																		
ICS-P14-W-111414										20.0 U								
ICS-P14-W-111414									20.0 U									
ICS-P15-W-111414										20.0 U								
ICS-P15-W-111414									20.0 U									
ICS-P11-W-111714		**3**			**1.7**		**1.5**	**20,000**				**1.7**		0.5 U	**70,200**		**5**	120
ICS-P11-W-111714	**3**		10 U	**0.6**		0.1 U					**1.6**		0.5 U			**4**		
ICS-P12-W-111714		**20**			**5**		**1.1**	**18,800**				**6**		1 U	**314,000**		10 U	150
ICS-P12-W-111714	**22**		10 U	**3**		**0.4**					**5**		1 U			10 U		
Trip Blank																		
ICS-P11-W-111714										20.0 U								
ICS-P11-W-111714									20.0 U									
ICS-P12-W-111714										20.0 U								
ICS-P12-W-111714									20.0 U									

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Total Petroleum Hydrocarbons **			Chloro-methane	Bromo-methane	Vinyl chloride	Chloro-ethane	Methylene chloride	Acetone	Carbon disulfide	1,1-Dichloro-ethene	1,1-Dichloro-ethane	*trans*-1,2-Dichloroethene	*cis*-1,2-Dichloroethene	Chloroform
	Gasoline-range	Diesel-range	Lube-range	74-87-3	74-83-9	75-01-4	75-00-3	75-09-2	67-64-1	75-15-0	75-35-4	75-34-3	156-60-5	156-59-2	67-66-3
	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ICS-P27A-W-111114	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.53 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.66 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27B-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.85 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.41**	0.20 U
ICS-P20-W-111214															
ICS-P23-W-111214	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.94 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.20 U
ICS-P23-W-111214															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.5 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P13-W-111314	0.25 U	0.12	0.20 U	2.5 U	5.0 U	1.0 U	1.0 U	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P13-W-111314															
ICS-P26-W-111314	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.78 J_B**	5.0 U	**0.10 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P26-W-111314															
Trip Blank	0.25 U			**0.10 J**	1.0 U	0.20 U	0.20 U	**1.4 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P14-W-111414	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**2.1**	0.20 U	**1.2 J_B**	**15**	0.20 U	0.20 U	**1.5**	**1.1**	**23**	0.20 U
ICS-P14-W-111414															
ICS-P15-W-111414	**1.8**	0.17	0.20 U	2.5 U	5.0 U	**8.8**	**15**	5.0 U	25 U	1.0 U	1.0 U	**69**	**6.0**	**11**	1.0 U
ICS-P15-W-111414															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.5 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P11-W-111714	0.25 U	0.10 U	0.20 U	2.5 U	5.0 U	1.0 U	1.0 U	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.65 J**	1.0 U
ICS-P11-W-111714															
ICS-P12-W-111714	0.25 U	0.10 U	0.20 U	2.5 U	5.0 U	**0.60 J**	**0.90 J**	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P12-W-111714															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.3 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															

*** bold-typed values resemble corresponding petroleum hydrocarbon mixture*

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis*-1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans*-1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-P27A-W-111114	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P27B-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P20-W-111214															
ICS-P23-W-111214	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P23-W-111214															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P13-W-111314	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	25 U	25 U
ICS-P13-W-111314															
ICS-P26-W-111314	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P26-W-111314															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P14-W-111414	**0.14 J**	**3.9 J**	0.20 U	0.20 U	0.20 U	**0.19 J**	0.20 U	**0.60**	0.20 U	0.20 U	**3.1**	0.20 U	0.20 U	**6.2**	5.0 U
ICS-P14-W-111414															
ICS-P15-W-111414	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.8**	1.0 U	1.0 U	**8.2**	1.0 U	1.0 U	25 U	25 U
ICS-P15-W-111414															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P11-W-111714	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**	1.0 U	1.0 U	25 U	25 U
ICS-P11-W-111714															
ICS-P12-W-111714	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**48**	1.0 U	1.0 U	25 U	25 U
ICS-P12-W-111714															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-P27A-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P27A-W-111114																
ICS-P27B-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P27B-W-111114																
ICS-P27A-W-111114																
ICS-P27A-W-111114																
ICS-P27B-W-111114																
ICS-P27B-W-111114																
ICS-P20-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P20-W-111214																
ICS-P23-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	**1.4**	5.0 U	0.20 U	0.20 U
ICS-P23-W-111214																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P20-W-111214																
ICS-P20-W-111214																
ICS-P23-W-111214																
ICS-P23-W-111214																
ICS-P13-W-111314	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P13-W-111314																
ICS-P26-W-111314	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P26-W-111314																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P13-W-111314																
ICS-P13-W-111314																
ICS-P26-W-111314																
ICS-P26-W-111314																
ICS-P14-W-111414	0.20 U	0.20 U	**7.8**	0.20 U	**0.72**	0.20 U	0.20 U	0.20 U	**2.0**	**1.0**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P14-W-111414																
ICS-P15-W-111414	1.0 U	1.0 U	**22**	1.0 U	**87**	1.0 U	1.0 U	1.0 U	**150**	**39**	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P15-W-111414																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P14-W-111414																
ICS-P14-W-111414																
ICS-P15-W-111414																
ICS-P15-W-111414																
ICS-P11-W-111714	1.0 U	1.0 U	**1.8**	1.0 U	**15**	1.0 U	1.0 U	1.0 U	**4.2**	**1.2**	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P11-W-111714																
ICS-P12-W-111714	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	**1.4 J**	1.0 U	**0.50 J**	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P12-W-111714																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P11-W-111714																
ICS-P11-W-111714																
ICS-P12-W-111714																
ICS-P12-W-111714																

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-P27A-W-111114	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27B-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P20-W-111214															
ICS-P23-W-111214	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P23-W-111214															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P13-W-111314	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P13-W-111314															
ICS-P26-W-111314	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P26-W-111314															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P14-W-111414	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P14-W-111414															
ICS-P15-W-111414	1.0 U	1.0 U	2.5 U	5.0 U	**12**	**36**	1.0 U	1.0 U	1.0 U	1.0 U	**2.4**	**2.8**	1.0 U	1.0 U	1.0 U
ICS-P15-W-111414															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P11-W-111714	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P11-W-111714															
ICS-P12-W-111714	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.4**	**0.55 J**	1.0 U	1.0 U	1.0 U
ICS-P12-W-111714															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															

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U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	*tert*-Butylbenzene 98-06-6 µg/L	*sec*-Butylbenzene 135-98-8 µg/L	4-Isopropyltoluene 99-87-6 µg/L	n-Butylbenzene 104-51-8 µg/L	1,2,4-Trichlorobenzene 120-82-1 µg/L	1,2,3-Trichlorobenzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chlorophenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methylphenol 95-48-7 µg/L	4-Methylphenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloroethane 67-72-1 µg/L
ICS-P27A-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P27A-W-111114													
ICS-P27B-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P27B-W-111114													
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P20-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P20-W-111214													
ICS-P23-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P23-W-111214													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P23-W-111214													
ICS-P23-W-111214													
ICS-P13-W-111314	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	2.5 U	**8.3**	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P13-W-111314													
ICS-P26-W-111314	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P26-W-111314													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P26-W-111314													
ICS-P26-W-111314													
ICS-P14-W-111414	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	**20**	1.0 U	2.0 U	**4.1**	**150**	1.0 U	2.0 U
ICS-P14-W-111414													
ICS-P15-W-111414	1.0 U	1.0 U	**5.2**	1.0 U	2.5 U	2.5 U	**2.5**	1.0 U	2.0 U	**36**	**32**	1.0 U	2.0 U
ICS-P15-W-111414													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P15-W-111414													
ICS-P15-W-111414													
ICS-P11-W-111714	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	2.5 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P11-W-111714													
ICS-P12-W-111714	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	2.5 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P12-W-111714													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P12-W-111714													
ICS-P12-W-111714													

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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L
ICS-P27A-W-111114	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P27A-W-111114													
ICS-P27B-W-111114	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P27B-W-111114													
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P20-W-111214	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P20-W-111214													
ICS-P23-W-111214	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P23-W-111214													
Trip Blank													
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P23-W-111214													
ICS-P23-W-111214													
ICS-P13-W-111314	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P13-W-111314													
ICS-P26-W-111314	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P26-W-111314													
Trip Blank													
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P26-W-111314													
ICS-P26-W-111314													
ICS-P14-W-111414	1.0 U	1.0 U	**4.2**	**18 J**	3.0 U	**0.14**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	**0.12**
ICS-P14-W-111414													
ICS-P15-W-111414	1.0 U	1.0 U	**65**	**7.3 J**	3.0 U	**1.4**	3.0 U	**1.7**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P15-W-111414													
Trip Blank													
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P15-W-111414													
ICS-P15-W-111414													
ICS-P11-W-111714	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.57**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P11-W-111714													
ICS-P12-W-111714	1.0 U	1.0 U	3.0 U	**5.3 J**	3.0 U	**0.14**	3.0 U	**3.1**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P12-W-111714													
Trip Blank													
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P12-W-111714													
ICS-P12-W-111714													

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U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Hexachloro-benzene 118-74-1 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L
ICS-P27A-W-111114	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	**0.42**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P27B-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P20-W-111214															
ICS-P23-W-111214	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P23-W-111214															
Trip Blank															
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P13-W-111314	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P13-W-111314															
ICS-P26-W-111314	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P26-W-111314															
Trip Blank															
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P14-W-111414	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P14-W-111414															
ICS-P15-W-111414	**0.46**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	**0.11**	1.0 U	1.0 U	**0.78**	**0.10 J**	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P15-W-111414															
Trip Blank															
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P11-W-111714	**0.15**	**0.09 J**	3.0 U	3.0 U	1.0 U	1.0 U	**0.18**	1.0 U	1.0 U	**0.36**	**0.29**	1.0 U	0.10 U	1.0 U	**0.06 J**
ICS-P11-W-111714															
ICS-P12-W-111714	**0.07 J**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P12-W-111714															
Trip Blank															
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-P27A-W-111114	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P27A-W-111114													
ICS-P27B-W-111114	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P27B-W-111114													
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P20-W-111214	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P20-W-111214													
ICS-P23-W-111214	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P23-W-111214													
Trip Blank													
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P23-W-111214													
ICS-P23-W-111214													
ICS-P13-W-111314	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P13-W-111314													
ICS-P26-W-111314	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P26-W-111314													
Trip Blank													
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P26-W-111314													
ICS-P26-W-111314													
ICS-P14-W-111414	0.10 U	1.0 U	0.10 U	**10**	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.26	0.10 U
ICS-P14-W-111414													
ICS-P15-W-111414	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.07	0.10 U
ICS-P15-W-111414													
Trip Blank													
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P15-W-111414													
ICS-P15-W-111414													
ICS-P11-W-111714	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.19	0.10 U
ICS-P11-W-111714													
ICS-P12-W-111714	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21	0.10 U
ICS-P12-W-111714													
Trip Blank													
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P12-W-111714													
ICS-P12-W-111714													

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-P27A-W-111114	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P27A-W-111114																
ICS-P27B-W-111114	0.0025 U	0.0029 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	**0.036**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P27B-W-111114																
ICS-P27A-W-111114																
ICS-P27A-W-111114																
ICS-P27B-W-111114																
ICS-P27B-W-111114																
ICS-P20-W-111214	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P20-W-111214																
ICS-P23-W-111214	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0026 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P23-W-111214																
Trip Blank																
ICS-P20-W-111214																
ICS-P20-W-111214																
ICS-P23-W-111214																
ICS-P23-W-111214																
ICS-P13-W-111314	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P13-W-111314																
ICS-P26-W-111314	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P26-W-111314																
Trip Blank																
ICS-P13-W-111314																
ICS-P13-W-111314																
ICS-P26-W-111314																
ICS-P26-W-111314																
ICS-P14-W-111414	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P14-W-111414																
ICS-P15-W-111414	0.0042 U	0.0083 U	0.0025 U	0.0025 U	0.011 U	0.0037 U	0.0058 U	0.0068 U	0.0050 U	0.011 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P15-W-111414																
Trip Blank																
ICS-P14-W-111414																
ICS-P14-W-111414																
ICS-P15-W-111414																
ICS-P15-W-111414																
ICS-P11-W-111714	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P11-W-111714																
ICS-P12-W-111714	0.0025 U	0.0040 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.016 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P12-W-111714																
Trip Blank																
ICS-P11-W-111714																
ICS-P11-W-111714																
ICS-P12-W-111714																
ICS-P12-W-111714																

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November 2014

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-P27A-W-111114	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.0050 U	0.0050 U	**0.0087**	**0.010**	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.015 U	0.025 U	**0.016**	0.010 U	0.010 U	0.025 U
ICS-P27B-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P20-W-111214															
ICS-P23-W-111214	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P23-W-111214															
Trip Blank															
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P13-W-111314	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	**0.016**	**0.017**	0.010 U	0.010 U	0.033
ICS-P13-W-111314															
ICS-P26-W-111314	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.012 U	**0.020**	0.010 U	0.010 U	0.020
ICS-P26-W-111314															
Trip Blank															
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P14-W-111414	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P14-W-111414															
ICS-P15-W-111414	0.0050 U	0.0050 U	0.0098 U	0.0054 U	0.25 U	0.0058 U	0.0070 U	0.010 U	0.010 U	0.012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.012 U
ICS-P15-W-111414															
Trip Blank															
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P11-W-111714	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P11-W-111714															
ICS-P12-W-111714	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	**0.0060 J**	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P12-W-111714															
Trip Blank															
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: February 4, 2015

SUBJECT: Data Evaluation/Assessment for 23 Groundwaters Collected from Soil Push-Probes during November-December 2014 from the ICS / [former] NW Cooperage Site, Seattle, WA

Twenty-three water samples developed from soil push-probes were collected by Dalton, Olmsted & Fuglevand (DOF) staff during November and December, 2014 for chemical characterization. All samples were delivered in ten delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 22.5 hours of collection. Samples were received on ice at temperatures between 0.2 and 5.9 °C, and maintained at the project laboratory at 4 °C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. Nine trip/transport blanks were also submitted and analyzed for TPH-G and VOC's for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Table SAP-4 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. pesticides	SW846-M.8081B	SVOC's (PAH's)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. phenols	SW846-M.8041
metals (excl Hg)	SW846-M.6010C & EPA 200.8	Hg (low-level)	SW846-M.7470A
total petroleum HC's	NWTPH-Dx & -G	Cl & SO_4	EPA 300.0
hexavalent chromium	SW846-M.7196A		

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed (on the same extract) and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. Anthracene reported from the analysis of groundwater from

ICS-P12-W-111714 by M.8270D (full-scan) did not satisfy all identification criteria at a level of 1.3 µg/L due to possible interference, whereas the analysis of the same extract by M.8270-SIM reported anthracene as not detected at 0.10 µg/L (U). The nondetected value is reported in the attached results table. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C). A comparison of results from the two methods shows a detection of 1,4-dichlorobenzene at 1.4 µg/L by M.8260C and 0.9 J µg/L by M.8270D for ICS-P23-W-111214; thus reporting results are generally comparable and consistent. The attached results table reports only the results for the dichloro- and trichloro-benzenes from the VOC's analyses due to lower reporting limits. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC-SIM (M.8270-SIM) and chlorinated pesticides (by M.8081B) methods, respectively. A comparison of results from the two methods shows naphthalene at 0.50 U µg/L (nondetected) by M.8260C and 0.14 µg/L by M.8270D for ICS-P14-W-111414, 3.3 B µg/L (potentially affected by blank contributions) by M.8260C and 1.4 µg/L by M.8270D (no data quality limitations) for ICS-P15-W-111414, 2.5 U µg/L (nondetected) by M.8260C and 0.14 µg/L by M.8270D (no data quality limitations) for ICS-P12-W-111714; thus reporting results for naphthalene (when detected) are generally comparable and consistent. Hexachlorobenzene (HCB) results were generated and reported by both M.8270D and M.8081B, while only the results generated by M.8081B are retained here due to significantly reduced reporting limits. The lower reporting limit for chlorinated phenols (2,4,6-trichlorophenol and pentachlorophenol) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and acid cleanup steps.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA, with the exception of hexavalent chromium (Cr(VI)) in ICS-P27A-W-111114 and ICS-P27B-W-111114. The recommended maximum holding time for Cr(VI) is 24 hours and the reported holding time for these analyses was 48 hours. Dissolved chromium (by Method 200.8) in the two samples was either nondetected or detected at the lower reporting limit (at 1 µg/L), indicating the reported nondetects (at 10 µg/L U) for Cr(VI) to be acceptable. A mislabel was noted on the C-O-C/Analytical Request form for ICS-P12-W-111714 while the sample vials were correctly labeled. Subsequent documentation was correctly labeled. Sample holding times/conditions are determined to be acceptable or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. Some Aroclors (commercial PCB mixtures) were reported with slightly elevated reporting limits or nondetects due to elevated or busy baselines; specifically for sample ICS-P27B-W-111114. Several samples, such as ICS-P29-W-121014 and ICS-P32-W-A-121514, exhibited elevated pesticide reporting limits due to interferences associated with the presence of PCB's. Other samples, such as ICS-P18-W-A-121614, ICS-P21-W-A-120814, ICS-P29-W-121014 and ICS-P31-W-120914,

exhibited background interferences and elevated chromatographic baselines during the analyses of the chlorinated pesticides resulting in elevated reporting limits. This also resulted in the qualification of selected results with the "J_P" qualifier code due to variability in the dual column confirmation analyses (> 40RPD [relative percent difference] in dual-column quantitative confirmation for pesticide analytes). Analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are ≤ 20 samples). All method blanks reported nondetects, with the exception of the following:

Analyte	Analysis date	Conc. (µg/L)
Hexachlorobutadiene (VOC's)	11-18-14	0.41
	11-20-14	0.37
	11-24-14	ND
	12-15-14	ND
	12-17-14	ND
	12-23-14	0.40
Methylene chloride (VOC's)	11-18-14	ND
	11-20-14	0.89
	11-24-14	ND
	12-15-14	0.65
	12-17-14	ND
	12-23-14	0.66
n-Butylbenzene (VOC's)	11-18-14	0.11
	11-20-14	ND
	11-24-14	ND
	12-15-14	ND
	12-17-14	ND
	12-23-14	ND
Naphthalene (VOC's)	11-18-14	0.19
	11-20-14	ND
	11-24-14	ND
	12-15-14	ND
	12-17-14	ND
	12-23-14	0.26
1,2,3-Trichlorobenzene (VOC's)	11-18-14	0.12
	11-20-14	0.19
	11-24-14	ND
	12-15-14	ND
	12-17-14	ND
	12-23-14	ND

No hexachlorobutadiene (HCBD) was detected in any of the project samples during analyses of VOC's by M.8260C. HCBD however was reported in the attached results table from the analyses of chlorinated pesticides by M.8081B due to lowered reporting limits. No n-butylbenzene or 1,2,3-trichlorobenzene was detected in any project samples. Naphthalene was not reported from the analyses performed by M.8260C (VOC's), therefore results did not require qualification. Methylene chloride was reported at up to 0.89 µg/L in the six method blanks analyzed. Methylene chloride was also reported as detected in project samples including the

nine trip/transport blanks. Further evaluation of methylene chloride in project samples is found in the following paragraph. A chloride continuing calibration blank (CCB) reported a detectable value on 11-12-14, however all associated sample results were greater than 10x the CCB value. A method blank for sample delivery group ZO26 reported presence of silver at 0.6 µg/L for total metals, however no silver is reported as detected in associated samples. With the exception of methylene chloride, no results required qualification due to method blanks performance.

No field equipment **rinsate blank**s were generated nor submitted for determination of potential bias associated with field activities. Nine **trip/transport blanks** were generated and submitted for analysis and determination of potential contamination during handling of VOC's and TPH-G samples. Results of these analyses are reported in the attached table. Methylene chloride was reported up to 1.9 µg/L in trip/transport blanks; the greatest level reported for any project samples. Based on the levels of methylene chloride reported in laboratory method blanks and trip/transport blanks, all reported methylene chloride results are qualified with the "J_B" code as likely associated with sampling/analytical background.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. LCSD recoveries were reported greater than specified for dibromochloromethane and benzo(g,h,i)perylene (by M.8270-SIM) both at 124%, however, no dibromochloromethane or benzo(g,h,i)perylene was reported in associated samples. MS recoveries for N-nitrosodiphenylamine, 2,4-dimethylphenol and fluorene by M.8270D (fullscan) were reported in the range of 26-44%, however these analytes were reported by M.8270D-SIM where the recoveries were within acceptable range. No associated data required qualification. MS recoveries for Aroclors 1016 and 1260 in ICS-P26-W-111314 were reported elevated at 152% and 140%, respectively. These elevated recoveries are believed to be associated with inadvertent double-spiking of the sample since the associated MSD recoveries are reported at one-half of these values. MS/MSD recoveries for Aroclor 1016 in ICS-P32-W-A-121514 are reported at greater than 600%, whereas the recoveries for Aroclor 1260 in the same analysis were reported at 74% and 128%. The elevated recoveries for Aroclor 1016 are due to overlapping and interfering peaks from the relatively high levels of native Aroclor 1248 present. Aroclors 1016 and 1260 MS/MSD recoveries in ICS-P21-W-A-120814 were immeasurable due to the high native levels of PCB's overwhelming the low spike levels. No organic analyte results required qualification due to noncompliant LCS/LCSD and MS/MSD recoveries.

MS recoveries for <u>total</u> antimony (Sb) in ICS-P16-W-121014, ICS-P18-W-A-121614, ICS-27A-W-111114, ICS-P20-W-111214 and ICS-P28-W-A-121514 are reported low in the range of 34 - 72%, whereas the <u>dissolved</u> Sb matrix spike recoveries in samples from the same sample locations are within acceptable range (75-125%). MS recoveries for both total and dissolved silver (Ag) in ICS-P13-W-111314 were reported low at 48.4% and 49.6%, while associated LCS/LCSD recoveries were within acceptable range. Similarly, MS recoveries for both total and dissolved silver (Ag) in ICS-P21-W-A-120814 were reported low at 35% and 59%, while associated LCS/LCSD recoveries were within acceptable range. Silver was only reported as detected in two samples (as total, not dissolved). Hexavalent chromium (Cr(VI)) matrix spike recoveries were consistently reported low (0-63%) in the dissolved phase for ICS-P11-W-111714, ICS-P13-W-111314, ICS-P14-W-111414, ICS-P16-W-121014, ICS-P18-W-A-121614,

ICS-P20-W-111214, ICS-P21-W-A-120814 and ICS-P28-W-121514. Post-digestion spikes confirmed presence of matrix interferences most likely chemical reductants preventing stability of oxidized chromium [Cr(VI)]. Duplicate analyses of Cr(VI) in ICS-P13-W-111314 reported 15 µg/L and nondetect at 10 U µg/L; the associated total and dissolved chromium for the same sample reported 8 µg/L, which is less than the tentative value of 15 µg/L for Cr(VI). The nondetected result for ICS-P13-W-111314 is reported in the attached results table. Sufficient interferences exist in Cr(VI) determinations to report "apparent detected" values greater than the result for dissolved chromium, which is impossible because Cr(VI) is measured in filtered samples. It is also determined that sufficient matrix interferences and chemical reduction potential exists to prevent stability of any hexavalent chromium in project samples. While the normal reporting limit for Cr(VI) analyses is 10 µg/L, all reported detects of Cr(VI) are qualified as nondetects at the associated reported values with the "U" qualifier code. With the exception of hexavalent chromium[Cr(VI)], no other results required qualification of sample results due to noncompliant analyte recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols. Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM (M.8270D-SIM) utilized the surrogate compounds d_{10}-2-methylnaphthalene, d_{10}-fluoranthene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All surrogate recoveries were within specification, with the following exceptions: d_{14}-terphenyl at 25.2% in ICS-P12-W-111714 by M.8270D (acceptance range = 28-130%); and d_{10}-2-methylnaphthalene at 2.7% in ICS-P13-W-111314 by M.8270-SIM. Further check of surrogate recoveries in ICS-P13-W-111314 by M.8270D using the same extract analyzed by M.8270D-SIM reveals acceptable recoveries for all surrogate compounds (47.6-75.7%). Noncompliant or out-of-range recoveries for single surrogate compounds within a chemical compound class do not require qualification of results. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed occasional [minor] noncompliant responses (CCV RPD compared to initial calibration responses > 20) for 1,1,1,2-dichloroethane, chloromethane, bromomethane, vinyl chloride, 1,1-dichloroethene, carbon disulfide, 2-butanone, trichlorofluoromethane and hexachlorobutadiene (HCBD) by M.8260C, and indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene and pentachlorophenol (PCP) by M.8270D. PCP was reported from analyses performed by M.8041 that exhibited acceptable QC measurements, the potentially affected PAH's were reported from the M.8270D-SIM method where QC performance was acceptable, and the affected VOC analytes were all reported as nondetected, with the exception of vinyl chloride in ICS-P21-W-A-120814. The affected vinyl

chloride result is qualified as an estimate with the "J_Q" qualifier code. No other results required qualification due to CCV or CCAL performance.

TPH-Dx and TPH-G analyses indicate presence of principally weathered gasoline in a sample from ICS-P15-W-111414, diesel fuel in ICS-P21-W-A-120814 and ICS-P30-W-120914, and motor oil lube in ICS-P29-W-121014. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present; as summarized above.

U.S. Environmental Protection Agency (EPA) Solid Waste Methods, SW846 Section 4.1.2 identifies acid preservation for aqueous samples containing highly reactive compounds, e.g., styrene and vinyl chloride, as inappropriate due to possible loss by polymerization or other rapid chemical reaction. Due to the broad spectrum analysis requirements for this project, acid preservation to pH < 2 of aqueous samples was implemented. Quality control measurements for this project, such as MS/MSD recoveries for all analytes including styrene and vinyl chloride, revealed acceptable recoveries. Also, vinyl chloride was generally detected and reported for samples containing known reaction precursors. While quality control measures indicate that vinyl chloride and styrene results are valid, it is recommended that additional effort be directed to assessing the validity of application of acid preservation for project samples. This effort would include the analyses of site groundwater samples known or suspect to contain vinyl chloride (and possibly styrene) by collection and analysis of both acid-preserved and nonpreserved samples after 3-4 day and 1-week holding times. This activity could be performed along with the scheduled monitoring of site monitoring wells.

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data for ground water samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7		Cadmium 7440-43-9		Calcium 7440-70-2
					mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424581-ZJ93A	**3790**	**489**		0.5 U		**3**		0.5 U		0.2 U	**69,600**
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424585-ZJ94A											
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424583-ZJ93C			0.5 U		**3**		0.5 U		0.2 U		
ICS-P27A-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424587-ZJ94C											
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424582-ZJ93B	**5170**	**3.5**		**3.5**		**11**		**0.6**		**1.2**	**553,000**
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	nonfiltered	1424586-ZJ94B											
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424584-ZJ93D			0.5 U		**2**		0.5 U		0.2 U		
ICS-P27B-W-111114	GW-pushprobe	11/11/2014	field-filtered, 0.45 µm	1424588-ZJ94D											
ICS-P20-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424610-ZK08A	**16**	**143**		0.2 U		**3.6**		0.2 U		0.1 U	**201,000**
ICS-P20-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424615-ZK09A											
ICS-P20-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424613-ZK08D			0.2 U		**1.6**		0.2 U		0.1 U		
ICS-P20-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424617-ZK09C											
ICS-P23-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424611-ZK08B	**34.6**	**47.2**		**0.5**		**4.1**		0.2 U		0.1 U	**67,400**
ICS-P23-W-111214	GW-pushprobe	11/12/2014	nonfiltered	1424616-ZK09B											
ICS-P23-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424614-ZK08E			**0.5**		**3.3**		0.2 U		0.1 U		
ICS-P23-W-111214	GW-pushprobe	11/12/2014	field-filtered, 0.45 µm	1424618-ZK09D											
Trip Blank	water	11/12/2014	trip/transport blank	1424612-ZK08C											
ICS-P13-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424765-ZK31A	**58.3**	**0.7**		0.5 U		**11.4**		0.2 U		0.2 U	**16,000**
ICS-P13-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424770-ZK32A											
ICS-P13-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424768-ZK31D			0.5 U		**11.1**		0.2 U		0.2 U		
ICS-P13-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424772-ZK32C											
ICS-P26-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424766-ZK31B	**5620**	**589**		1 U		**14**		1 U		0.5 U	**184,000**
ICS-P26-W-111314	GW-pushprobe	11/13/2014	nonfiltered	1424771-ZK32B											
ICS-P26-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424769-ZK31E			1 U		**15**		1 U		0.5 U		
ICS-P26-W-111314	GW-pushprobe	11/13/2014	field-filtered, 0.45 µm	1424773-ZK32D											
Trip Blank	water	11/13/2014	trip/transport blank	1424767-ZK31C											
ICS-P14-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424921-ZK48A	**514**	**1.2**		0.2 U		**0.8**		**0.5**		0.1 U	**48,000**
ICS-P14-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424926-ZK49A											
ICS-P14-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424924-ZK48D			0.2 U		**0.4**		**0.5**		0.1 U		
ICS-P14-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424928-ZK49C											
ICS-P15-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424922-ZK48B	**251**	**11.4**		**1.0**		**12.6**		0.5 U		0.1 U	**13,300**
ICS-P15-W-111414	GW-pushprobe	11/14/2014	nonfiltered	1424927-ZK49B											
ICS-P15-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424925-ZK48E			**0.8**		**12.3**		0.5 U		0.1 U		
ICS-P15-W-111414	GW-pushprobe	11/14/2014	field-filtered, 0.45 µm	1424929-ZK49D											
Trip Blank	water	11/14/2014	trip/transport blank	1424923-ZK48C											
ICS-P11-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424978-ZK73A	**12.1**	**2.9**		0.5 U		**28.0**		0.5 U		0.2 U	**15,400**
ICS-P11-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424983-ZK74A											
ICS-P11-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424981-ZK73D			0.5 U		**28.6**		0.5 U		0.2 U		
ICS-P11-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424985-ZK74C											
ICS-P12-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424979-ZK73B	**73.9**	1.0 U		1 U		**27**		1 U		0.5 U	**27,800**
ICS-P12-W-111714	GW-pushprobe	11/17/2014	nonfiltered	1424984-ZK74B											
ICS-P12-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424982-ZK73E			1 U		**28**		1 U		0.5 U		
ICS-P12-W-111714	GW-pushprobe	11/17/2014	field-filtered, 0.45 µm	1424986-ZK74D											
Trip Blank	water	11/17/2014	trip/transport blank	1424980-ZK73C											
ICS-P21-W-A-120814	GW-pushprobe	12/8/2014	nonfiltered	1426661-ZN87A	**71.5**	**0.6**		0.2 U		**1.2**		0.2 U		0.1 U	**30,400**
ICS-P21-W-A-120814	GW-pushprobe	12/8/2014	nonfiltered	1426669-ZN98A											
ICS-P21-W-A-120814	GW-pushprobe	12/8/2014	field-filtered, 0.45 µm	1426666-ZN87F			0.2 U		**1.0**		0.2 U		0.1 U		
ICS-P21-W-A-120814	GW-pushprobe	12/8/2014	field-filtered, 0.45 µm	1426672-ZN98D											
ICS-P21-W-B-120814	GW-pushprobe	12/8/2014	nonfiltered	1426662-ZN87B	**6490**	**184**		2 U		**3**		2 U		1 U	**643,000**
ICS-P21-W-B-120814	GW-pushprobe	12/8/2014	nonfiltered	1426670-ZN98B											
ICS-P21-W-B-120814	GW-pushprobe	12/8/2014	field-filtered, 0.45 µm	1426667-ZN87G			2 U		2 U		2 U		1 U		
ICS-P21-W-B-120814	GW-pushprobe	12/8/2014	field-filtered, 0.45 µm	1426673-ZN98E											
ICS-P33-W-A-120814	GW-pushprobe	12/8/2014	nonfiltered	1426663-ZN87C	**25.0**	**0.6**		0.2 U		**0.8**		0.2 U		0.1 U	**29,600**
ICS-P33-W-A-120814	GW-pushprobe	12/8/2014	nonfiltered	1426671-ZN98C											
ICS-P33-W-A-120814	GW-pushprobe	12/8/2014	field-filtered, 0.45 µm	1426668-ZN87H			0.2 U		**0.3**		0.2 U		0.1 U		

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7		Cadmium 7440-43-9		Calcium 7440-70-2
					mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L
ICS-P33-W-A-120814	GW-pushprobe	12/8/2014	field-filtered, 0.45 µm	1426674-ZN98F											
ICS-P33-W-B-120814	GW-pushprobe	12/8/2014	nonfiltered	1426664-ZN87D	**280**	**2.4**									**53,900**
Trip Blank	water	12/8/2014	trip/transport blank	1426665-ZN87E											
ICS-P30-W-120914	GW-pushprobe	12/9/2014	nonfiltered	1426675-ZN99A	**2930**	**201**		1 U		**8**		1 U		0.5 U	**111,000**
ICS-P30-W-120914	GW-pushprobe	12/9/2014	nonfiltered	1426696-ZO00A											
ICS-P30-W-120914	GW-pushprobe	12/9/2014	field-filtered, 0.45 µm	1426678-ZN99D			1 U		**5**		1 U		0.5 U		
ICS-P30-W-120914	GW-pushprobe	12/9/2014	field-filtered, 0.45 µm	1426698-ZO00C											
ICS-P31-W-120914	GW-pushprobe	12/9/2014	nonfiltered	1426676-ZN99B	**1460**	**0.5**		2 U		1 U		0.5 U		1 U	**62,800**
ICS-P31-W-120914	GW-pushprobe	12/9/2014	nonfiltered	1426697-ZO00B											
ICS-P31-W-120914	GW-pushprobe	12/9/2014	field-filtered, 0.45 µm	1426679-ZN99E			0.5 U		1 U		0.5 U		0.2 U		
ICS-P31-W-120914	GW-pushprobe	12/9/2014	field-filtered, 0.45 µm	1426699-ZO00D											
Trip Blank	water	12/9/2014	trip/transport blank	1426677-ZN99C											
ICS-P16-W-121014	GW-pushprobe	12/10/2014	nonfiltered	1426874-ZO26A	**643**	**2.5**		**0.4**		**5.4**		**0.3**		0.1 U	**56,400**
ICS-P16-W-121014	GW-pushprobe	12/10/2014	nonfiltered	1426884-ZO27A											
ICS-P16-W-121014	GW-pushprobe	12/10/2014	field-filtered, 0.45 µm	1426877-ZO26D			**0.8**		**2.4**		0.2 U		0.1 U		
ICS-P16-W-121014	GW-pushprobe	12/10/2014	field-filtered, 0.45 µm	1426886-ZO27C											
ICS-P29-W-121014	GW-pushprobe	12/10/2014	nonfiltered	1426875-ZO26B	**1470**	**136**		0.5 U		**12**		**0.8**		**0.3**	**123,000**
ICS-P29-W-121014	GW-pushprobe	12/10/2014	nonfiltered	1426885-ZO27B											
ICS-P29-W-121014	GW-pushprobe	12/10/2014	field-filtered, 0.45 µm	1426878-ZO26E			0.5 U		**2**		0.5 U		0.2 U		
ICS-P29-W-121014	GW-pushprobe	12/10/2014	field-filtered, 0.45 µm	1426887-ZO27D											
Trip Blank	water	12/10/2014	trip/transport blank	1426876-ZO26C											
ICS-P28-W-121514	GW-pushprobe	12/15/2014	nonfiltered	1427467-ZP26A	**2850**	**205**		0.5 U		**3**		**0.8**		0.2 U	**135,000**
ICS-P28-W-121514	GW-pushprobe	12/15/2014	nonfiltered	1427474-ZP27A											
ICS-P28-W-121514	GW-pushprobe	12/15/2014	field-filtered, 0.45 µm	1427471-ZP26E			0.5 U		1 U		0.5 U		0.2 U		
ICS-P28-W-121514	GW-pushprobe	12/15/2014	field-filtered, 0.45 µm	1427477-ZP27D											
ICS-P32-W-A-121514	GW-pushprobe	12/15/2014	nonfiltered	1427468-ZP26B	**1950**	**83.8**		0.2 U		**5.1**		**0.7**		**0.1**	**66,700**
ICS-P32-W-A-121514	GW-pushprobe	12/15/2014	nonfiltered	1427475-ZP27B											
ICS-P32-W-A-121514	GW-pushprobe	12/15/2014	field-filtered, 0.45 µm	1427472-ZP26F			0.2 U		0.5 U		**0.3**		0.1 U		
ICS-P32-W-A-121514	GW-pushprobe	12/15/2014	field-filtered, 0.45 µm	1427478-ZP27E											
ICS-P32-W-B-121514	GW-pushprobe	12/15/2014	nonfiltered	1427469-ZP26C	**891**	**0.7**		0.5 U		**2**		**0.6**		0.2 U	**65,500**
ICS-P32-W-B-121514	GW-pushprobe	12/15/2014	nonfiltered	1427476-ZP27C											
ICS-P32-W-B-121514	GW-pushprobe	12/15/2014	field-filtered, 0.45 µm	1427473-ZP26G			0.5 U		**2**		**0.8**		0.2 U		
ICS-P32-W-B-121514	GW-pushprobe	12/15/2014	field-filtered, 0.45 µm	1427479-ZP27F											
Trip Blank	water	12/15/2014	trip/transport blank	1427470-ZP26D											
ICS-P18-W-A-121614	GW-pushprobe	12/16/2014	nonfiltered	1427683-ZP49A	**840**	**0.5**		**0.4**		**5**		**0.5**		**0.2**	**71,500**
ICS-P18-W-A-121614	GW-pushprobe	12/16/2014	nonfiltered	1427688-ZP50A											
ICS-P18-W-A-121614	GW-pushprobe	12/16/2014	field-filtered, 0.45 µm	1427686-ZP49D			0.2 U		**2**		0.2 U		0.1 U		
ICS-P18-W-A-121614	GW-pushprobe	12/16/2014	field-filtered, 0.45 µm	1427690-ZP50C											
ICS-P18-W-B-121614	GW-pushprobe	12/16/2014	nonfiltered	1427684-ZP49B	**8220**	**4.2**		1 U		**3**		1 U		0.5 U	**587,000**
ICS-P18-W-B-121614	GW-pushprobe	12/16/2014	nonfiltered	1427689-ZP50B											
ICS-P18-W-B-121614	GW-pushprobe	12/16/2014	field-filtered, 0.45 µm	1427687-ZP49E			1 U		2 U		1 U		0.5 U		
ICS-P18-W-B-121614	GW-pushprobe	12/16/2014	field-filtered, 0.45 µm	1427691-ZP50D											
Trip Blank	water	12/16/2014	trip/transport blank	1427685-ZP49C											

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Chromium 7440-47-3		Hexavalent Chromium	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-P27A-W-111114		**8**			**12**		**1.8**	**173,000**				**7**		0.5 U	**2,460,000**		**20**	890
ICS-P27A-W-111114										20.0 U								
ICS-P27A-W-111114	**1**		10 U	**2**		0.2 U					**2**		0.5 U			10 U		
ICS-P27A-W-111114									20.0 U									
ICS-P27B-W-111114		**57**			**116**		**197**	**639,000**				**46**		**0.7**	**2,000,000**		**320**	4000
ICS-P27B-W-111114										**182**								
ICS-P27B-W-111114	1 U		10 U	**2**		0.2 U					**14**		0.5 U			**30**		
ICS-P27B-W-111114									20.0 U									
ICS-P20-W-111214		**6**			**14**		**1.6**	**46,800**				**14**		0.2 U	**34,800**		**20**	690
ICS-P20-W-111214										20.0 U								
ICS-P20-W-111214	0.5 U		10 U	**1.0**		0.1 U					**2.0**		0.2 U			4 U		
ICS-P20-W-111214									20.0 U									
ICS-P23-W-111214		**2.1**			**4**		**0.6**	**44,900**				**5**		0.2 U	**22,200**		**10**	350
ICS-P23-W-111214										20.0 U								
ICS-P23-W-111214	0.5 U		10 U	0.5 U		0.1 U					**1.4**		0.2 U			**5**		
ICS-P23-W-111214									20.0 U									
Trip Blank																		
ICS-P13-W-111314		**8**			**4.3**		**0.7**	**13,600**				**3.5**		0.5 U	**186,000**		**10**	96
ICS-P13-W-111314										20.0 U								
ICS-P13-W-111314	**8**		10 U	**0.8**		**0.1**					**3.5**		0.5 U			**9**		
ICS-P13-W-111314									20.0 U									
ICS-P26-W-111314		**3**			**4**		**0.6**	**415,000**				**6**		1 U	**3,200,000**		20 U	2200
ICS-P26-W-111314										20.0 U								
ICS-P26-W-111314	2 U		10 U	**3**		0.5 U					**6**		1 U			20 U		
ICS-P26-W-111314									20.0 U									
Trip Blank																		
ICS-P14-W-111414		**5**			**2.0**		**7.0**	**18,100**				**1.8**		0.2 U	**124,000**		**12**	190
ICS-P14-W-111414										20.0 U								
ICS-P14-W-111414	2 U		10 U	0.5 U		**0.3**					**1.5**		0.2 U			**6**		
ICS-P14-W-111414									20.0 U									
ICS-P15-W-111414		**10**			**2.2**		**3.3**	**2470**				**5.1**		0.2 U	**431,000**		**7**	43
ICS-P15-W-111414										20.0 U								
ICS-P15-W-111414	**10**		12 U	0.5 U		**0.1**					**4.8**		0.2 U			4 U		
ICS-P15-W-111414									20.0 U									
Trip Blank																		
ICS-P11-W-111714		**3**			**1.7**		**1.5**	**20,000**				**1.7**		0.5 U	**70,200**		**5**	120
ICS-P11-W-111714										20.0 U								
ICS-P11-W-111714	**3**		10 U	**0.6**		0.1 U					**1.6**		0.5 U			**4**		
ICS-P11-W-111714									20.0 U									
ICS-P12-W-111714		**20**			**5**		**1.1**	**18,800**				**6**		1 U	**314,000**		10 U	150
ICS-P12-W-111714										20.0 U								
ICS-P12-W-111714	**22**		10 U	**3**		**0.4**					**5**		1 U			10 U		
ICS-P12-W-111714									20.0 U									
Trip Blank																		
ICS-P21-W-A-120814		**11**			**9.4**		**5**	**44,700**				**8.3**		0.2 U	**195,000**		**18**	260
ICS-P21-W-A-120814										**33.0**								
ICS-P21-W-A-120814	**3**		11 U	0.5 U		0.5 U					**4.1**		0.2 U			**6**		
ICS-P21-W-A-120814									20.0 U									
ICS-P21-W-B-120814		**30**			**18**		**9**	**561,000**				**18**		2 U	**2,730,000**		**40**	3900
ICS-P21-W-B-120814										**75.7**								
ICS-P21-W-B-120814	5 U		34 U	5 U		1 U					**9**		2 U			40 U		
ICS-P21-W-B-120814									20.0 U									
ICS-P33-W-A-120814		**10**			**7.2**		**5.1**	**43,700**				**7.8**		0.2 U	**54,000**		**29**	250
ICS-P33-W-A-120814										**22.4**								
ICS-P33-W-A-120814	2 U		10 U	**0.6**		0.5 U					**3.8**		0.2 U			**8**		

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Chromium 7440-47-3		Hexavalent Chromium	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-P33-W-A-120814									20.0 U									
ICS-P33-W-B-120814								**41,400**							**561,000**			310
Trip Blank																		
ICS-P30-W-120914		**38**			**30**		**5.7**	**193,000**				**19**		1 U	**1,840,000**		**40**	1100
ICS-P30-W-120914										**47.7**								
ICS-P30-W-120914	**36**		10 U	**27**		**5.0**					**18**		1 U			**40**		
ICS-P30-W-120914									**26.3**									
ICS-P31-W-120914		**6**			**1**		1 U	**99,200**				**3**		2 U	**983,000**		**90**	570
ICS-P31-W-120914										20.0 U								
ICS-P31-W-120914	5 U		23 U	1 U		0.2 U					**2**		0.5 U			10 U		
ICS-P31-W-120914									20.0 U									
Trip Blank																		
ICS-P16-W-121014		**17**			**23.6**		**12.7**	**102,000**				**14.2**		0.2 U	**419,000**		**37**	560
ICS-P16-W-121014										**52.0**								
ICS-P16-W-121014	1 U		10 U	0.5 U		0.1 U					**3.9**		0.2 U			4 U		
ICS-P16-W-121014									20.0 U									
ICS-P29-W-121014		**81**			**66**		**61.7**	**111,000**				**39**		0.5 U	**750,000**		**130**	760
ICS-P29-W-121014										**218**								
ICS-P29-W-121014	**3**		22 U	**1**		**0.4**					**3**		0.5 U			10 U		
ICS-P29-W-121014									20.0 U									
Trip Blank																		
ICS-P28-W-121514		**32**			**14**		**1.6**	**191,000**				**8**		0.5 U	**1,700,000**		**20**	1100
ICS-P28-W-121514										**22.5**								
ICS-P28-W-121514	**2**		11 U	**1**		0.2 U					**3**		0.5 U			10 U		
ICS-P28-W-121514									20.0 U									
ICS-P32-W-A-121514		**121**			**52.4**		**8.6**	**131,000**				**23.2**		0.2 U	**510,000**		**59**	710
ICS-P32-W-A-121514										**35.3**								
ICS-P32-W-A-121514	**7.3**		10 U	**0.6**		0.1 U					**2.0**		0.2 U			**6**		
ICS-P32-W-A-121514									20.0 U									
ICS-P32-W-B-121514		**22**			**21**		**2.8**	**97,400**				**8**		0.5 U	**1,360,000**		**40**	560
ICS-P32-W-B-121514										20.0 U								
ICS-P32-W-B-121514	**2**		20 U	1 U		0.2 U					**2**		0.5 U			10 U		
ICS-P32-W-B-121514									20.0 U									
Trip Blank																		
ICS-P18-W-A-121614		**45**			**31.2**		**38.8**	**73,000**				**18.3**		**0.3**	**730,000**		**80**	480
ICS-P18-W-A-121614										**211**								
ICS-P18-W-A-121614	**5**		10 U	**0.5**		0.1 U					**4.4**		0.2 U			4 U		
ICS-P18-W-A-121614									20.0 U									
ICS-P18-W-B-121614		**11**			**7**		**7.9**	**755,000**				**14**		1 U	**4,080,000**		20 U	4600
ICS-P18-W-B-121614										20.0 U								
ICS-P18-W-B-121614	2 U		14 U	2 U		0.5 U					**12**		1 U			20 U		
ICS-P18-W-B-121614									20.0 U									
Trip Blank																		

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-P27A-W-111114	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.53 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.66 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.85 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.41**	0.20 U
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.94 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.20 U
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.5 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P13-W-111314	0.25 U	0.12	0.20 U	2.5 U	5.0 U	1.0 U	1.0 U	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.78 J$_B$**	5.0 U	**0.10 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
Trip Blank	0.25 U			**0.10 J**	1.0 U	0.20 U	0.20 U	**1.4 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P14-W-111414	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**2.1**	0.20 U	**1.2 J$_B$**	**15**	0.20 U	0.20 U	**1.5**	**1.1**	**23**	0.20 U
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414	**1.8**	0.17	0.20 U	2.5 U	5.0 U	**8.8**	**15**	5.0 U	25 U	1.0 U	1.0 U	**69**	**6.0**	**11**	1.0 U
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.5 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P11-W-111714	0.25 U	0.10 U	0.20 U	2.5 U	5.0 U	1.0 U	1.0 U	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.65 J**	1.0 U
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714	0.25 U	0.10 U	0.20 U	2.5 U	5.0 U	**0.60 J**	**0.90 J**	5.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P12-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.3 J$_B$**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P21-W-A-120814	0.25 U	**2.2**	0.84	0.50 U	1.0 U	**0.72 J$_Q$**	**4.7**	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.42**	0.20 U
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-B-120814	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P33-W-A-120814	0.25 U	0.36	0.20 U	0.50 U	1.0 U	0.20 U	**3.6**	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P33-W-A-120814															
ICS-P33-W-A-120814															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-P33-W-A-120814															
ICS-P33-W-B-120814															
Trip Blank				0.50 U	1.0 U	0.20 U	0.20 U	**1.9 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P30-W-120914	0.25 U	**2.0**	1.0	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.90**	**0.25**	0.20 U	0.20 U
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P31-W-120914	0.25 U	0.51	0.32	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.30**	0.20 U	0.20 U	0.20 U
ICS-P31-W-120914															
ICS-P31-W-120914															
ICS-P31-W-120914															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.9 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P16-W-121014	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.44**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.26**	0.20 U
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P29-W-121014	0.25 U	0.26	**0.70**	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U	0.20 U
ICS-P29-W-121014															
ICS-P29-W-121014															
ICS-P29-W-121014															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.6 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P28-W-121514	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**4.0 J**	**0.18 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P32-W-A-121514	0.25 U	0.12	0.20 U	0.50 U	1.0 U	**0.42**	**0.12 J**	1.0 U	**6.2**	**0.30**	0.20 U	**0.31**	**0.15 J**	**0.52**	0.20 U
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-B-121514	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**2.9 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.38**	0.20 U
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.4 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P18-W-A-121614	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.23**	1.0 U	**4.1 J**	**0.16 J**	0.20 U	0.20 U	**0.10 J**	**0.10 J**	0.20 U
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-B-121614	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	**1.3 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

*** bold-typed values resemble corresponding petroleum hydrocarbon mixture*

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis*-1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans*-1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-P27A-W-111114	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P13-W-111314	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	25 U	25 U
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P14-W-111414	**0.14 J**	**3.9 J**	0.20 U	0.20 U	0.20 U	**0.19 J**	0.20 U	**0.60**	0.20 U	0.20 U	**3.1**	0.20 U	0.20 U	**6.2**	5.0 U
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.8**	1.0 U	1.0 U	**8.2**	1.0 U	1.0 U	25 U	25 U
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P11-W-111714	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**	1.0 U	1.0 U	25 U	25 U
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714	1.0 U	25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**48**	1.0 U	1.0 U	25 U	25 U
ICS-P12-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P21-W-A-120814	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.61**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-B-120814	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P33-W-A-120814	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P33-W-A-120814															
ICS-P33-W-A-120814															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis*-1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans*-1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-P33-W-A-120814															
ICS-P33-W-B-120814															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P30-W-120914	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**2.4**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P31-W-120914	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P31-W-120914															
ICS-P31-W-120914															
ICS-P31-W-120914															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P16-W-121014	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.54**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P29-W-121014	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P29-W-121014															
ICS-P29-W-121014															
ICS-P29-W-121014															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P28-W-121514	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P32-W-A-121514	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-B-121514	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P18-W-A-121614	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**8.6**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-B-121614	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-P27A-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P27A-W-111114																
ICS-P27A-W-111114																
ICS-P27A-W-111114																
ICS-P27B-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P27B-W-111114																
ICS-P27B-W-111114																
ICS-P27B-W-111114																
ICS-P20-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P20-W-111214																
ICS-P20-W-111214																
ICS-P20-W-111214																
ICS-P23-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	**1.4**	5.0 U	0.20 U	0.20 U
ICS-P23-W-111214																
ICS-P23-W-111214																
ICS-P23-W-111214																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P13-W-111314	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P13-W-111314																
ICS-P13-W-111314																
ICS-P13-W-111314																
ICS-P26-W-111314	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P26-W-111314																
ICS-P26-W-111314																
ICS-P26-W-111314																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P14-W-111414	0.20 U	0.20 U	**7.8**	0.20 U	**0.72**	0.20 U	0.20 U	0.20 U	**2.0**	**1.0**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P14-W-111414																
ICS-P14-W-111414																
ICS-P14-W-111414																
ICS-P15-W-111414	1.0 U	1.0 U	**22**	1.0 U	**87**	1.0 U	1.0 U	1.0 U	**150**	**39**	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P15-W-111414																
ICS-P15-W-111414																
ICS-P15-W-111414																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P11-W-111714	1.0 U	1.0 U	**1.8**	1.0 U	**15**	1.0 U	1.0 U	1.0 U	**4.2**	**1.2**	1.0 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P11-W-111714																
ICS-P11-W-111714																
ICS-P11-W-111714																
ICS-P12-W-111714	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	**1.4 J**	1.0 U	**0.50 J**	1.0 U	1.0 U	25 U	1.0 U	1.0 U
ICS-P12-W-111714																
ICS-P12-W-111714																
ICS-P12-W-111714																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P21-W-A-120814	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P21-W-A-120814																
ICS-P21-W-A-120814																
ICS-P21-W-A-120814																
ICS-P21-W-B-120814	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P21-W-B-120814																
ICS-P21-W-B-120814																
ICS-P21-W-B-120814																
ICS-P33-W-A-120814	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P33-W-A-120814																
ICS-P33-W-A-120814																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-P33-W-A-120814																
ICS-P33-W-B-120814																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P30-W-120914	0.20 U	0.20 U	**4.2**	**0.56**	**2.6**	0.20 U	0.20 U	0.20 U	**6.4**	**2.6**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P30-W-120914																
ICS-P30-W-120914																
ICS-P30-W-120914																
ICS-P31-W-120914	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P31-W-120914																
ICS-P31-W-120914																
ICS-P31-W-120914																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P16-W-121014	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P16-W-121014																
ICS-P16-W-121014																
ICS-P16-W-121014																
ICS-P29-W-121014	0.20 U	0.20 U	**0.49**	0.20 U	**1.3**	0.20 U	0.20 U	0.20 U	**0.73**	**0.26**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P29-W-121014																
ICS-P29-W-121014																
ICS-P29-W-121014																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P28-W-121514	0.20 U	0.20 U	**0.14 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.24 J**	**0.10 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P28-W-121514																
ICS-P28-W-121514																
ICS-P28-W-121514																
ICS-P32-W-A-121514	0.20 U	0.20 U	**0.74**	0.20 U	**0.54**	0.20 U	0.20 U	0.20 U	**1.7**	**0.64**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P32-W-A-121514																
ICS-P32-W-A-121514																
ICS-P32-W-A-121514																
ICS-P32-W-B-121514	0.20 U	0.20 U	**0.33**	0.20 U	**0.30**	0.20 U	0.20 U	0.20 U	**0.91**	**0.34**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P32-W-B-121514																
ICS-P32-W-B-121514																
ICS-P32-W-B-121514																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P18-W-A-121614	0.20 U	0.20 U	**0.52**	0.20 U	**0.23**	0.20 U	0.20 U	0.20 U	**1.6**	**0.60**	**0.15 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P18-W-A-121614																
ICS-P18-W-A-121614																
ICS-P18-W-A-121614																
ICS-P18-W-B-121614	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.40**	**0.17 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P18-W-B-121614																
ICS-P18-W-B-121614																
ICS-P18-W-B-121614																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-P27A-W-111114	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P13-W-111314	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P14-W-111414	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414	1.0 U	1.0 U	2.5 U	5.0 U	**12**	**36**	1.0 U	1.0 U	1.0 U	1.0 U	**2.4**	**2.8**	1.0 U	1.0 U	1.0 U
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P11-W-111714	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714	1.0 U	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.4**	**0.55 J**	1.0 U	1.0 U	1.0 U
ICS-P12-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P21-W-A-120814	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-B-120814	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P33-W-A-120814	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P33-W-A-120814															
ICS-P33-W-A-120814															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-P33-W-A-120814															
ICS-P33-W-B-120814															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P30-W-120914	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.95**	0.20 U	0.20 U	0.20 U	0.20 U	**0.60**	**0.36**	0.20 U	0.20 U	0.20 U
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P31-W-120914	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P31-W-120914															
ICS-P31-W-120914															
ICS-P31-W-120914															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P16-W-121014	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P29-W-121014	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.59**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P29-W-121014															
ICS-P29-W-121014															
ICS-P29-W-121014															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P28-W-121514	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P32-W-A-121514	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.23**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-B-121514	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P18-W-A-121614	0.20 U	0.20 U	0.50 U	1.0 U	**0.13 J**	**0.58**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-B-121614	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.16 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L
ICS-P27A-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27B-W-111114	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P20-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P23-W-111214	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P23-W-111214													
ICS-P23-W-111214													
ICS-P23-W-111214													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P13-W-111314	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	2.5 U	**8.3**	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P26-W-111314	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P26-W-111314													
ICS-P26-W-111314													
ICS-P26-W-111314													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P14-W-111414	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	**20**	1.0 U	2.0 U	**4.1**	**150**	1.0 U	2.0 U
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P15-W-111414	1.0 U	1.0 U	**5.2**	1.0 U	2.5 U	2.5 U	**2.5**	1.0 U	2.0 U	**36**	**32**	1.0 U	2.0 U
ICS-P15-W-111414													
ICS-P15-W-111414													
ICS-P15-W-111414													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P11-W-111714	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	2.5 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P12-W-111714	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	2.5 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P12-W-111714													
ICS-P12-W-111714													
ICS-P12-W-111714													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P21-W-A-120814	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P21-W-A-120814													
ICS-P21-W-A-120814													
ICS-P21-W-A-120814													
ICS-P21-W-B-120814	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P21-W-B-120814													
ICS-P21-W-B-120814													
ICS-P21-W-B-120814													
ICS-P33-W-A-120814	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P33-W-A-120814													
ICS-P33-W-A-120814													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L
ICS-P33-W-A-120814													
ICS-P33-W-B-120814													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P30-W-120914	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P30-W-120914													
ICS-P30-W-120914													
ICS-P30-W-120914													
ICS-P31-W-120914	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P31-W-120914													
ICS-P31-W-120914													
ICS-P31-W-120914													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P16-W-121014	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P16-W-121014													
ICS-P16-W-121014													
ICS-P16-W-121014													
ICS-P29-W-121014	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P29-W-121014													
ICS-P29-W-121014													
ICS-P29-W-121014													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P28-W-121514	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P28-W-121514													
ICS-P28-W-121514													
ICS-P28-W-121514													
ICS-P32-W-A-121514	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	**0.8 J**	1.0 U	2.0 U
ICS-P32-W-A-121514													
ICS-P32-W-A-121514													
ICS-P32-W-A-121514													
ICS-P32-W-B-121514	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P32-W-B-121514													
ICS-P32-W-B-121514													
ICS-P32-W-B-121514													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-P18-W-A-121614	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P18-W-A-121614													
ICS-P18-W-A-121614													
ICS-P18-W-A-121614													
ICS-P18-W-B-121614	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P18-W-B-121614													
ICS-P18-W-B-121614													
ICS-P18-W-B-121614													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L
ICS-P27A-W-111114	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27B-W-111114	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P20-W-111214	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P23-W-111214	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P23-W-111214													
ICS-P23-W-111214													
ICS-P23-W-111214													
Trip Blank													
ICS-P13-W-111314	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P26-W-111314	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P26-W-111314													
ICS-P26-W-111314													
ICS-P26-W-111314													
Trip Blank													
ICS-P14-W-111414	1.0 U	1.0 U	**4.2**	**18 J**	3.0 U	**0.14**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	**0.12**
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P15-W-111414	1.0 U	1.0 U	**65**	**7.3 J**	3.0 U	**1.4**	3.0 U	**1.7**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P15-W-111414													
ICS-P15-W-111414													
ICS-P15-W-111414													
Trip Blank													
ICS-P11-W-111714	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.57**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P12-W-111714	1.0 U	1.0 U	3.0 U	**5.3 J**	3.0 U	**0.14**	3.0 U	**3.1**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P12-W-111714													
ICS-P12-W-111714													
ICS-P12-W-111714													
Trip Blank													
ICS-P21-W-A-120814	1.0 U	1.0 U	3.0 U	**16 J**	3.0 U	**0.11**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P21-W-A-120814													
ICS-P21-W-A-120814													
ICS-P21-W-A-120814													
ICS-P21-W-B-120814	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.05 J**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P21-W-B-120814													
ICS-P21-W-B-120814													
ICS-P21-W-B-120814													
ICS-P33-W-A-120814	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.05 J**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P33-W-A-120814													
ICS-P33-W-A-120814													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L
ICS-P33-W-A-120814													
ICS-P33-W-B-120814													
Trip Blank													
ICS-P30-W-120914	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.05 J**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P30-W-120914													
ICS-P30-W-120914													
ICS-P30-W-120914													
ICS-P31-W-120914	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P31-W-120914													
ICS-P31-W-120914													
ICS-P31-W-120914													
Trip Blank													
ICS-P16-W-121014	1.0 U	1.0 U	3.0 U	**7.0 J**	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P16-W-121014													
ICS-P16-W-121014													
ICS-P16-W-121014													
ICS-P29-W-121014	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.15**	3.0 U	**2.2**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P29-W-121014													
ICS-P29-W-121014													
ICS-P29-W-121014													
Trip Blank													
ICS-P28-W-121514	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P28-W-121514													
ICS-P28-W-121514													
ICS-P28-W-121514													
ICS-P32-W-A-121514	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.09 J**	3.0 U	**2.0**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P32-W-A-121514													
ICS-P32-W-A-121514													
ICS-P32-W-A-121514													
ICS-P32-W-B-121514	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.06 J**	3.0 U	**1.3**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P32-W-B-121514													
ICS-P32-W-B-121514													
ICS-P32-W-B-121514													
Trip Blank													
ICS-P18-W-A-121614	1.0 U	1.0 U	3.0 U	**7.6 J**	3.0 U	**0.19**	3.0 U	**0.21**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P18-W-A-121614													
ICS-P18-W-A-121614													
ICS-P18-W-A-121614													
ICS-P18-W-B-121614	1.0 U	1.0 U	3.0 U	20 U	3.0 U	**0.09 J**	3.0 U	**0.07 J**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P18-W-B-121614													
ICS-P18-W-B-121614													
ICS-P18-W-B-121614													
Trip Blank													

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L
ICS-P27A-W-111114	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	**0.42**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P27A-W-111114														
ICS-P27A-W-111114														
ICS-P27A-W-111114														
ICS-P27B-W-111114	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P27B-W-111114														
ICS-P27B-W-111114														
ICS-P27B-W-111114														
ICS-P20-W-111214	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P20-W-111214														
ICS-P20-W-111214														
ICS-P20-W-111214														
ICS-P23-W-111214	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P23-W-111214														
ICS-P23-W-111214														
ICS-P23-W-111214														
Trip Blank														
ICS-P13-W-111314	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P13-W-111314														
ICS-P13-W-111314														
ICS-P13-W-111314														
ICS-P26-W-111314	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P26-W-111314														
ICS-P26-W-111314														
ICS-P26-W-111314														
Trip Blank														
ICS-P14-W-111414	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P14-W-111414														
ICS-P14-W-111414														
ICS-P14-W-111414														
ICS-P15-W-111414	**0.46**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	**0.11**	1.0 U	**0.78**	**0.10 J**	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P15-W-111414														
ICS-P15-W-111414														
ICS-P15-W-111414														
Trip Blank														
ICS-P11-W-111714	**0.15**	**0.09 J**	3.0 U	3.0 U	1.0 U	1.0 U	**0.18**	1.0 U	**0.36**	**0.29**	1.0 U	0.10 U	1.0 U	**0.06 J**
ICS-P11-W-111714														
ICS-P11-W-111714														
ICS-P11-W-111714														
ICS-P12-W-111714	**0.07 J**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P12-W-111714														
ICS-P12-W-111714														
ICS-P12-W-111714														
Trip Blank														
ICS-P21-W-A-120814	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P21-W-A-120814														
ICS-P21-W-A-120814														
ICS-P21-W-A-120814														
ICS-P21-W-B-120814	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P21-W-B-120814														
ICS-P21-W-B-120814														
ICS-P21-W-B-120814														
ICS-P33-W-A-120814	0.10 U	0.10 U	3.0 U	3.0 U	**0.8 J**	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P33-W-A-120814														
ICS-P33-W-A-120814														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L
ICS-P33-W-A-120814														
ICS-P33-W-B-120814														
Trip Blank														
ICS-P30-W-120914	**0.07 J**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P30-W-120914														
ICS-P30-W-120914														
ICS-P30-W-120914														
ICS-P31-W-120914	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P31-W-120914														
ICS-P31-W-120914														
ICS-P31-W-120914														
Trip Blank														
ICS-P16-W-121014	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P16-W-121014														
ICS-P16-W-121014														
ICS-P16-W-121014														
ICS-P29-W-121014	**0.09 J**	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	**0.07 J**	1.0 U	0.25 U	**0.17**	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P29-W-121014														
ICS-P29-W-121014														
ICS-P29-W-121014														
Trip Blank														
ICS-P28-W-121514	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	**0.39**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P28-W-121514														
ICS-P28-W-121514														
ICS-P28-W-121514														
ICS-P32-W-A-121514	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	**0.07 J**	1.0 U	**7.5**	**0.20**	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P32-W-A-121514														
ICS-P32-W-A-121514														
ICS-P32-W-A-121514														
ICS-P32-W-B-121514	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	**2.0**	**0.08 J**	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P32-W-B-121514														
ICS-P32-W-B-121514														
ICS-P32-W-B-121514														
Trip Blank														
ICS-P18-W-A-121614	**0.06 J**	**0.05 J**	3.0 U	3.0 U	1.0 U	1.0 U	**0.08 J**	1.0 U	0.25 U	**0.28**	1.0 U	**0.06 J**	1.0 U	**0.20**
ICS-P18-W-A-121614														
ICS-P18-W-A-121614														
ICS-P18-W-A-121614														
ICS-P18-W-B-121614	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	**0.09 J**	1.0 U	0.10 U	1.0 U	**0.07 J**
ICS-P18-W-B-121614														
ICS-P18-W-B-121614														
ICS-P18-W-B-121614														
Trip Blank														

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-P27A-W-111114	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27A-W-111114													
ICS-P27B-W-111114	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P27B-W-111114													
ICS-P20-W-111214	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P20-W-111214													
ICS-P23-W-111214	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P23-W-111214													
ICS-P23-W-111214													
ICS-P23-W-111214													
Trip Blank													
ICS-P13-W-111314	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P13-W-111314													
ICS-P26-W-111314	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P26-W-111314													
ICS-P26-W-111314													
ICS-P26-W-111314													
Trip Blank													
ICS-P14-W-111414	0.10 U	1.0 U	0.10 U	**10**	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.26	0.10 U
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P14-W-111414													
ICS-P15-W-111414	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.1	0.10 U
ICS-P15-W-111414													
ICS-P15-W-111414													
ICS-P15-W-111414													
Trip Blank													
ICS-P11-W-111714	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.2	0.10 U
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P11-W-111714													
ICS-P12-W-111714	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21	0.10 U
ICS-P12-W-111714													
ICS-P12-W-111714													
ICS-P12-W-111714													
Trip Blank													
ICS-P21-W-A-120814	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11	0.10 U
ICS-P21-W-A-120814													
ICS-P21-W-A-120814													
ICS-P21-W-A-120814													
ICS-P21-W-B-120814	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P21-W-B-120814													
ICS-P21-W-B-120814													
ICS-P21-W-B-120814													
ICS-P33-W-A-120814	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P33-W-A-120814													
ICS-P33-W-A-120814													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-P33-W-A-120814													
ICS-P33-W-B-120814													
Trip Blank													
ICS-P30-W-120914	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12	0.10 U
ICS-P30-W-120914													
ICS-P30-W-120914													
ICS-P30-W-120914													
ICS-P31-W-120914	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P31-W-120914													
ICS-P31-W-120914													
ICS-P31-W-120914													
Trip Blank													
ICS-P16-W-121014	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P16-W-121014													
ICS-P16-W-121014													
ICS-P16-W-121014													
ICS-P29-W-121014	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.48	0.10 U
ICS-P29-W-121014													
ICS-P29-W-121014													
ICS-P29-W-121014													
Trip Blank													
ICS-P28-W-121514	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P28-W-121514													
ICS-P28-W-121514													
ICS-P28-W-121514													
ICS-P32-W-A-121514	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.36	0.10 U
ICS-P32-W-A-121514													
ICS-P32-W-A-121514													
ICS-P32-W-A-121514													
ICS-P32-W-B-121514	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.14	0.10 U
ICS-P32-W-B-121514													
ICS-P32-W-B-121514													
ICS-P32-W-B-121514													
Trip Blank													
ICS-P18-W-A-121614	**0.18**	1.0 U	**0.08 J**	3.0 U	**0.09 J**	1.0 U	**0.08 J**	**0.07 J**	0.10 U	0.10 U	**0.05 J**	0.67	0.75
ICS-P18-W-A-121614													
ICS-P18-W-A-121614													
ICS-P18-W-A-121614													
ICS-P18-W-B-121614	**0.06 J**	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.18	0.13
ICS-P18-W-B-121614													
ICS-P18-W-B-121614													
ICS-P18-W-B-121614													
Trip Blank													

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-P27A-W-111114	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P27A-W-111114																
ICS-P27A-W-111114																
ICS-P27A-W-111114																
ICS-P27B-W-111114	0.0025 U	0.0029 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	**0.036**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P27B-W-111114																
ICS-P27B-W-111114																
ICS-P27B-W-111114																
ICS-P20-W-111214	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P20-W-111214																
ICS-P20-W-111214																
ICS-P20-W-111214																
ICS-P23-W-111214	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0026 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P23-W-111214																
ICS-P23-W-111214																
ICS-P23-W-111214																
Trip Blank																
ICS-P13-W-111314	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P13-W-111314																
ICS-P13-W-111314																
ICS-P13-W-111314																
ICS-P26-W-111314	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P26-W-111314																
ICS-P26-W-111314																
ICS-P26-W-111314																
Trip Blank																
ICS-P14-W-111414	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P14-W-111414																
ICS-P14-W-111414																
ICS-P14-W-111414																
ICS-P15-W-111414	0.0042 U	0.0083 U	0.0025 U	0.0025 U	0.011 U	0.0037 U	0.0058 U	0.0068 U	0.0050 U	0.011 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P15-W-111414																
ICS-P15-W-111414																
ICS-P15-W-111414																
Trip Blank																
ICS-P11-W-111714	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P11-W-111714																
ICS-P11-W-111714																
ICS-P11-W-111714																
ICS-P12-W-111714	0.0025 U	0.0040 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.016 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P12-W-111714																
ICS-P12-W-111714																
ICS-P12-W-111714																
Trip Blank																
ICS-P21-W-A-120814	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0077 U	0.0025 U	0.0050 U	**0.029 J_P**	0.0050 U	0.0050 U	**0.040 J_P**	0.0050 U	0.019 U	0.025 U
ICS-P21-W-A-120814																
ICS-P21-W-A-120814																
ICS-P21-W-A-120814																
ICS-P21-W-B-120814	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	**0.010**	0.0050 U	0.0050 U	**0.016 J_P**	0.0050 U	0.010 U	0.025 U
ICS-P21-W-B-120814																
ICS-P21-W-B-120814																
ICS-P21-W-B-120814																
ICS-P33-W-A-120814	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.022 U	0.025 U
ICS-P33-W-A-120814																
ICS-P33-W-A-120814																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-P33-W-A-120814																
ICS-P33-W-B-120814																
Trip Blank																
ICS-P30-W-120914	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.010 U	0.0050 U	0.038 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.037 U	0.025 U
ICS-P30-W-120914																
ICS-P30-W-120914																
ICS-P30-W-120914																
ICS-P31-W-120914	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0034 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	**0.033 J_P**	0.0050 U	0.0050 U	**0.039 J_P**	0.0050 U	0.026 U	0.025 U
ICS-P31-W-120914																
ICS-P31-W-120914																
ICS-P31-W-120914																
Trip Blank																
ICS-P16-W-121014	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	**0.14**	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.25 U
ICS-P16-W-121014																
ICS-P16-W-121014																
ICS-P16-W-121014																
ICS-P29-W-121014	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.010 U	0.021 U	0.019 U	0.0025 U	0.014 U	**0.030 J_P**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.045 U	0.025 U
ICS-P29-W-121014																
ICS-P29-W-121014																
ICS-P29-W-121014																
Trip Blank																
ICS-P28-W-121514	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.017 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.038 U	0.025 U
ICS-P28-W-121514																
ICS-P28-W-121514																
ICS-P28-W-121514																
ICS-P32-W-A-121514	0.0025 U	0.0050 U	0.0025 U	0.0025 U	0.0046 U	0.054 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.021 U	0.025 U
ICS-P32-W-A-121514																
ICS-P32-W-A-121514																
ICS-P32-W-A-121514																
ICS-P32-W-B-121514	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0038 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P32-W-B-121514																
ICS-P32-W-B-121514																
ICS-P32-W-B-121514																
Trip Blank																
ICS-P18-W-A-121614	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	**0.020 J_P**	0.0050 U	0.0072 U	**0.016 J_P**	0.0050 U	0.019 U	0.025 U
ICS-P18-W-A-121614																
ICS-P18-W-A-121614																
ICS-P18-W-A-121614																
ICS-P18-W-B-121614	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P18-W-B-121614																
ICS-P18-W-B-121614																
ICS-P18-W-B-121614																
Trip Blank																

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081B).
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-P27A-W-111114	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27A-W-111114															
ICS-P27B-W-111114	0.0050 U	0.0050 U	**0.0087**	**0.010**	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.015 U	0.025 U	**0.016**	0.010 U	0.010 U	0.025 U
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P27B-W-111114															
ICS-P20-W-111214	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P20-W-111214															
ICS-P23-W-111214	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P23-W-111214															
ICS-P23-W-111214															
ICS-P23-W-111214															
Trip Blank															
ICS-P13-W-111314	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	**0.016**	**0.017**	0.010 U	0.010 U	0.033
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P13-W-111314															
ICS-P26-W-111314	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.012 U	**0.020**	0.010 U	0.010 U	0.020
ICS-P26-W-111314															
ICS-P26-W-111314															
ICS-P26-W-111314															
Trip Blank															
ICS-P14-W-111414	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P14-W-111414															
ICS-P15-W-111414	0.0050 U	0.0050 U	0.0098 U	0.0054 U	0.25 U	0.0058 U	0.0070 U	0.010 U	0.010 U	0.012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.012 U
ICS-P15-W-111414															
ICS-P15-W-111414															
ICS-P15-W-111414															
Trip Blank															
ICS-P11-W-111714	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P11-W-111714															
ICS-P12-W-111714	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	**0.0060 J**	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P12-W-111714															
ICS-P12-W-111714															
ICS-P12-W-111714															
Trip Blank															
ICS-P21-W-A-120814	0.0050 U	0.0050 U	0.0025 U	0.0038 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.37**	**0.36**	**0.12**	0.010 U	0.010 U	0.85
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-A-120814															
ICS-P21-W-B-120814	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.17**	**0.16**	**0.049**	0.010 U	0.010 U	0.38
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P21-W-B-120814															
ICS-P33-W-A-120814	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.015 U	**0.12**	**0.18**	0.010 U	0.010 U	0.30
ICS-P33-W-A-120814															
ICS-P33-W-A-120814															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Groundwater Analyses, November-December 2014

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-P33-W-A-120814															
ICS-P33-W-B-120814															
Trip Blank															
ICS-P30-W-120914	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.074**	**0.070**	**0.019**	0.010 U	0.010 U	0.16
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P30-W-120914															
ICS-P31-W-120914	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.13**	**0.14**	**0.078**	0.010 U	0.010 U	0.35
ICS-P31-W-120914															
ICS-P31-W-120914															
ICS-P31-W-120914															
Trip Blank															
ICS-P16-W-121014	0.050 U	0.050 U	0.025 U	0.025 U	2.5 U	0.050 U	0.050 U	0.010 U	0.010 U	**0.065**	**0.074**	**0.020**	0.010 U	0.010 U	0.16
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P16-W-121014															
ICS-P29-W-121014	0.028 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.89**	**0.54**	**0.33**	0.010 U	0.010 U	1.8
ICS-P29-W-121014															
ICS-P29-W-121014															
ICS-P29-W-121014															
Trip Blank															
ICS-P28-W-121514	0.031 U	0.0050 U	**0.016**	**0.029 J**	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.050 U	**0.23**	**0.47**	0.010 U	0.010 U	0.70
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P28-W-121514															
ICS-P32-W-A-121514	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.23**	**0.13**	**0.073**	0.010 U	0.010 U	0.43
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-A-121514															
ICS-P32-W-B-121514	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.094**	**0.063**	**0.045**	0.010 U	0.010 U	0.20
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
ICS-P32-W-B-121514															
Trip Blank															
ICS-P18-W-A-121614	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.34**	**0.18**	**0.070**	0.010 U	0.010 U	0.59
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-A-121614															
ICS-P18-W-B-121614	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.060**	**0.034**	**0.016**	0.010 U	0.010 U	0.11
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
ICS-P18-W-B-121614															
Trip Blank															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: February 26, 2015

SUBJECT: Data Evaluation/Assessment for 77 Push-Probe Soil Samples Collected during November/December 2014 from the ICS / [former] NW Cooperage Site, Seattle, WA

Seventy-seven soil samples were submitted for analyses from 23 push-probe cores by Dalton, Olmsted & Fuglevand (DOF) staff during November 11 through December 16 for the evaluation of subsurface soils. All soil samples were delivered in ten delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 25 hours of collection. Samples were received on ice at temperatures between 0.2 and 5.4 °C. All samples were maintained at the project laboratory at either 4 °C or frozen prior to analyses. Aliquots of all samples were frozen in archives, and some samples for organic compound analyses were taken from frozen archives prior to extraction. No chemical preservatives were specified nor required.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Table SAP-6 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
SVOC's (selected)	M.8270D-SIM	chlor. pesticides	SW846-M.8081B
PCB's as Aroclors	SW846-M.8082	metals (exc Hg)	SW846-M.6020A
total petroleum HC's	NWTPH-G & -Dx	Hg	SW846-M.7471
PCDD/PCDF's	U.S. EPA M.1613B		

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270D in full-scan mode, and selected analytes were further analyzed and reported from analyses performed in the (M.8270D) SIM (selected ion monitoring) mode to improve/lower the reporting limits. These selected analytes include 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine (as diphenylamine), benzyl alcohol, butylbenzylphthalate, and pentachlorophenol. Results for detected analytes were reported from the full-scan analyses or from the mode that yielded non-

qualified data. For nondetected analytes, the lowest reporting limit between the two analytical modes was reported in the attached results table; generally from the SIM mode of analyses. PCB's (analyzed and reported as Aroclors) extracts were subjected to sulfur removal, strong acid digestion, and silica gel cleanup steps. Polychlorinated dibenzo-*p*-dioxins and dibenzofurans (PCDD/PCDF's) were analyzed by U.S. EPA method 1613B, which is a stable-isotope dilution method employing labeled recovery standards for each and every reported analyte in each sample extract. This allows recovery-correction and reporting of individual recoveries for all analytes in each sample. Extract cleanup options employed include acid digestion, silica gel and florisil liquid chromatographies. TCDD toxicity equivalent concentrations (TEQ's) were determined using the World Health Organization (WHO) 2005 recommended toxicity equivalence factors (TEF's). Extracts for NWTPH-Dx were subjected to strong acid digestion and silica gel chromatographic cleanup. NWTPH-G was analyzed by purge & trap and GC/FID.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Some frozen sample archives were accessed for re-extraction of organic compounds when initial extracts and analyses exhibited noncompliant QC performance(s), and, in some cases, samples were held frozen for up to 36 days prior to extraction for organic analytes (all reported VOC's and TPH-G [organic purgeables] were analyzed from refrigerated samples within the 14-day maximum holding time specification). U.S. EPA recommends a maximum holding time of 1 year for frozen samples requiring extractable organic compound analyses. Sample holding times/conditions are determined to be within acceptable technical limits and/or within SAP specifications.

Generally, [lower] **reporting limits** were consistent with specified-limits presented in the SAP (table SAP-6). Selected extractable organic parameters were analyzed by both full-scan GC/MS (M.8270D) and selected ion monitoring technique (GC/MS M.8270D-SIM) in order to attain lower reporting limits, as specified; these parameters include 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine (as diphenylamine), benzyl alcohol, butylbenzylphthalate, and pentachlorophenol. The two techniques compared well for detected analytes, for example, pentachlorophenol $(PCP)_{ICS\text{-}P27\text{-}SO\text{-}3\text{-}111114} = 62\ J_{(full\text{-}scan)}$ *vs.* $72_{(SIM)}$, benzyl $alcohol_{ICS\text{-}P27\text{-}SO\text{-}11\text{-}111114} = 22_{(full\text{-}scan)}$ *vs.* $22_{(SIM)}$, and $1,2,4\text{-}trichlorobenzene_{ICS\text{-}P25\text{-}SO\text{-}10\text{-}111114} = 30_{(full\text{-}scan)}$ *vs.* $30_{(SIM)}$. Five organic analytes were reported as components of two different parameter groups (VOC's *vs.* SVOC's), in the case of the (3) dichlorobenzenes, 1,2,4-trichlorobenzene and naphthalene. For these parameters, the QC performances and/or lower reporting limits were consistently better in the SVOC reporting group (for the dichlorobenzenes, the sample values for the SVOC reporting group were, with minor exceptions, consistently greater than for the VOC group; indicating heightened recoveries); the results for the VOC analyses are not reported here. Hexachlorobutadiene (HCBD) was analysed and reported in two parameter groups, VOC's by M.8260C and chlorinated pesticides by M.8081B. One method was not consistently better than the other regarding QC performance for HCBD due to matrix and chemical interferences; consequently, only the results with the better QC performance was reported on a sample-by-sample basis. Chlorinated pesticides (by M.8081B) exhibited elevated reporting limits in some cases due to the presence of chemical interferences, such as PCB's. A

significant number of soil samples exhibited sufficient levels of PCB's to affect chlorinated pesticides lower reporting limits. Considerable effort was made by the analysts to achieve the specified lower reporting limits when the sample matrix and chemical interferences would allow it. Analyte concentrations reported at less than the lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Octachlorodibenzo-*p*-dioxin (OCDD) results all (for two samples) exceeded the verifiable linear calibration range of the instrument. Reported OCDD results represent an extrapolation of the instrument calibration range and are subsequently reported as estimates with the "J_E" qualifier code. An initial analysis of VOC's in sample ICS-P18-SO-10-121614 exhibited a response for 1,2,4-trimethylbenzene that exceeded the verifiable linear calibration range of the instrument. A subsequent (diluted) analysis was performed outside the recommended maximum holding time of 14 days. A reevaluation of the initial analysis and quantitation employing alternate characteristic ions yielded an estimated concentration for 1,2,4-trimethylbenzene that was reported with an associated "J_M" qualifier code. This was deemed to yield a more representative value than the result from the analysis performed outside the recommended maximum holding time.

Method blanks were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of some low-level organic compounds:

Parameter	Analytical Group	Method	Value (µg/kg)
methylene chloride	ZJ92 / ZK10 / ZK33	M.8260C	0.8 J / 0.7 J
	ZK50 / ZK75	M.8260C	3.8
	ZN97 / ZO01	M.8260C	3.7 / 0.7 J / 1.1
	ZO28	M.8260C	0.7 J
	ZP37 / ZP53	M.8260C	0.6 J / 1.1 / 1.2
carbon disulfide	ZN97 / ZO01	M.8260C	0.6 J / 0.6 J / 0.7
	ZO28	M.8260C	0.6 J
1,4-dichlorobenzene	ZJ92	M.8260C	0.6 J
hexachlorobutadiene	ZJ92 / ZK10 / ZK33	M.8260C	0.8 J / 0.5 J
	ZK50 / ZK75	M.8260C	0.8 J
	ZN97 / ZO01	M.8260C	0.5 J / 0.6 J
	ZO28	M.8260C	0.5 J
	ZP37 / ZP53	M.8260C	0.4 J / 0.6 J
1,2,4,-trichlorobenzene	ZJ92 / ZK10 / ZK33	M.8260C	1.2 J / 0.9 J
	ZK50 / ZK75	M.8260C	1.0 J
	ZN97 / ZO01	M.8260C	0.7 J / 0.7 J / 0.7 J
	ZO28	M.8260C	0.7 J
	ZP37 / ZP53	M.8260C	0.5 J / 0.7 J / 0.6 J
1,2,3-trichlorobenzene	ZJ92 / ZK10 / ZK33	M.8260C	1.3 J / 0.9 J
	ZK50 / ZK75	M.8260C	1.0 J
	ZN97 / ZO01	M.8260C	0.8 J / 0.8 J / 0.8 J
	ZO28	M.8260C	0.8 J
	ZP37 / ZP53	M.8260C	0.6 J / 0.8 J / 0.8 J
naphthalene	ZJ92 / ZK10 / ZK33	M.8260C	1.8 J / 1.3 J
	ZK50 / ZK75	M.8260C	1.4 J
	ZN97 / ZO01	M.8260C	0.9 J
	ZO28	M.8260C	0.7 J
	ZP37 / ZP53	M.8260C	1.1 / 1.1 / 1.0

bis(2-ethylhexyl)phthalate	ZJ92 / ZK10	M.8270D	84
diethylphthalate	ZK33	M.8270D	21
	ZO28	M.8270D	27
phenol	ZK75	M.8270D	13 J
	ZN97 / ZO01	M.8270D	73
	ZO28	M.8270D	99
naphthalene	ZP37 / ZP53	M.8270D	16 J

Sample results for the above parameters in the respective analytical groups were qualified as estimated with potential positive bias with the "J_B" qualifier code when results have the potential to be significantly impacted by laboratory background levels. Associated values were qualified as estimated when the results were less than or equal to 2x the associated method blank values. Sixty-one sample results were sufficiently low to require "J_B" qualification. No other data required qualification due to method blanks performance.

No field equipment **rinsate blanks** were specified in the project SAP nor were any collected.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. **LCS** recoveries deviating from specified acceptance ranges are as follows:

Parameter	Analytical Group	Method	Recovery (%)
bromomethane	ZJ92 / ZK10 / ZK33	M.8260C	42 / 49
chloroethane	ZJ92 / ZK10 / ZK33	M.8260C	143 / 156
tetrachloroethene	ZK33	M.8260C	79 / 80
1,2,3-trichloropropane	ZK33	M.8260C	79 / 80
trans-1,4-dichloro-2-butene	ZK33	M.8260C	75 / 78
benzyl alcohol	ZK50	M.8270D	35 / 28
benzyl alcohol	ZK50	M.8270D-SIM	45 / 22; *75 / 83 (OK)*
2,4-dimethylphenol	ZK50	M.8270D	39 / 45
pentachlorophenol	ZK50	M.8270D	64 / *74 (LCSD OK)*
hexachlorobutadiene	ZO28	M.8081B	28
diesel	ZK33 / ZK50	NWTPH-Dx	31.4 / *74.7 (LCSD OK)*

Matrix spike (MS/MSD) recoveries deviating from specified acceptance ranges are as follows:

Parameter	Sample	Method	Recovery (%)
bromomethane	ICS-P17-SO-4-111214	M.8260C	16 / 23
2-hexanone	ICS-P17-SO-4-111214	M.8260C	39 / 42
trans-1,4-dichloro-2-butene	ICS-P17-SO-4-111214	M.8260C	63 / 68
benzoic acid	ICS-P20-SO-3-111214	M.8270D	48 / 52
2,4-dimethylphenol	ICS-P20-SO-3-111214	M.8270D	65
2,4-dimethylphenol	ICS-P12-SO-4-111714	M.8270D	39 / 47
fluorene	ICS-P16-SO-4-121014	M.8270D	43 / 45
heptachlor	ICS-P14-SO-16-111414	M.8081B	38 / 45
4,4'-DDT	ICS-P14-SO-16-111414	M.8081B	40 / 51
methoxychlor	ICS-P14-SO-16-111414	M.8081B	38 / 45
diesel	ICS-P25-SO-3-111114	NWTPH-Dx	54 / 56
diesel	ICS-P11-SO-10-111714	NWTPH-Dx	59 / 62
gasoline	ICS-P29-SO-4-121014	NWTPH-G	138 / 127
gasoline	ICS-P18-SO-32-121614	NWTPH-G	234 / 252
antimony (Sb)	ICS-P27-SO-3-111114	M.6020A	11.3
antimony (Sb)	ICS-P17-SO-4-111214	M.6020A	11.9
antimony (Sb)	ICS-P13-SO-4-111314	M.6020A	4.6

antimony (Sb)	ICS-P14-SO-4-111414	M.6020A	8.4
antimony (Sb)	ICS-P11-SO-4-111714	M.6020A	7.0
antimony (Sb)	ICS-P21-SO-7-120814	M.6020A	2.8
antimony (Sb)	ICS-P29-SO-4-121014	M.6020A	3.1
antimony (Sb)	ICS-P28-SO-4-121514	M.6020A	12
antimony (Sb)	ICS-P18-SO-4-121614	M.6020A	11
chromium (Cr)	ICS-P13-SO-4-111314	M.6020A	228
mercury (Hg)	ICS-P13-SO-4-111314	M.7471	133
silver (Ag)	ICS-P21-SO-7-120814	M.6020A	61
zinc (Zn)	ICS-P13-SO-4-111314	M.6020A	145

Recoveries for bromomethane were consistently lower than the specified ranges in both the LCS/LCSD in analytical group ZK10 and ICS-P17-SO-4-111214, requiring the qualification of the parameter in ICS-P17-SO-4-111214 as likely biased low with the qualifier code "J_R". Other VOC analytes' (by M.8260C) LCS/LCSD recoveries were just slightly outside specification and are not expected to adversely impact reported results. No MS/MSD analyses were performed for VOC analytes (by M.8260C). Benzyl alcohol, 2,4-dimethylphenol and pentachlorophenol recoveries by M.8270D were slightly outside specification, however, all sample results were reported from the analyses performed by M.8270D-SIM, which exhibited acceptable recoveries in the LCS/LCSD and MS/MSD samples. The less than specified MS/MSD recoveries for fluorene in ICS-P16-SO-4-121014 are not sufficiently low to adversely impact the reported sample results (nondetectable). The LCS recovery for hexachlorobutadiene (HCBD) in analytical group ZO28 was lower than specified at 28%, which was also reflected in a lower than specified TCMX surrogate recovery at 34%. This indicates an accurate tracking of the surrogate recoveries with specific analytes. The [M.8081B] LCS for analytical group ZO28 shows blow-down losses associated with the extract concentration step. Unacceptable blow-down losses (per TCMX recoveries) were not exhibited by other samples within this analytical group. Chlorinated pesticide (M.8081B) recoveries that were outside specification (38-51%) in ICS-P14-SO-16-111414 were not sufficiently low to adversely impact the reported results of target analytes (all nondetects). Diesel fuel MS/MSD recoveries in ICS-P25-SO-3-111114 and ICS-P11-SO-10-111714 were slightly outside specification and are not expected to impact the reported results in these two samples (no diesel fuel identified, and the associated surrogate compound recoveries are within the acceptance range). With the exception of selected bromomethane results, other organic parameters did not require qualification of results due to consistently low recoveries.

Antimony (Sb) matrix spike recoveries are reported consistently low in all samples for which matrix spikes were performed. Antimony (Sb) LCS recoveries, however, are all determined to be acceptable. This behavior for Sb is typical due to formation of Sb-SiO_4 complexes in the presence of soil minerals; consequently, positive hits for Sb are thus qualified with the "J_R" qualifier code to indicate results are considered estimates (biased low) due to low matrix spike recoveries. The PCDD/PCDF LCS, or OPR (on-going precision and recovery sample), exhibited acceptable recoveries for both the labeled as well as the natural isotope compounds at 71-157%. Recoveries of spike analytes for all analyses were determined to be acceptable, with the exceptions noted above for bromomethane and antimony requiring qualification of associated results as estimates with the "J_R" code.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-G, TPH-Dx, chlorinated pesticides (including hexachlorobutadiene [HCBD] and

hexachlorobenzene [HCB]), and PCB's. Four surrogate compounds were utilized for the evaluation of VOCs' recovery performances; d_4-1,2-dichloroethane, d_8-toluene, bromofluorobenzene, and d_4-1,2-dichlorobenzene. Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance. Trifluorotoluene and bromobenzene were employed as surrogates for the TPH-G analyses. *o*-Terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC (M.8270 full scan) recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds, while the SIM analyses recoveries were evaluated with the surrogates 2-fluorophenol and d_{14}-*p*-terphenyl. PCDD/PCDF analyte recoveries are evaluated and recovery-corrected with the use of stable-isotope labeled compounds for each and every target analyte. Isotopic labels included the use of ^{13}C and ^{37}Cl enriched compounds. Most surrogate compound performances were within specification with some minor exceptions. The VOC surrogate, d_4-1,2-dichloroethane, exhibited lower than specified recoveries at 67% and 65% in a reanalysis of sample ICS-P30-SO-13-120914. The other three surrogates for ICS-P30-SO-13-120914 showed acceptable recoveries, which does <u>not</u> require qualification of sample results per the U.S. EPA Data Quality Functional Guidelines. Three of four phenolic surrogate compounds (by M.8270D) exhibited lower than specified recoveries in samples ICS-P31-SO-4-120914 and ICS-P31-SO-10-120914; recoveries ranged from 17 to 27%. d_5-Phenol recoveries were acceptable in both samples at 42% and 39%. The single phenolic surrogate compound, 2-fluorophenol, employed in M.8270D-SIM for the same samples showed recoveries of 19% and 16%. No results for these two samples required further qualification since only phenol and benzoic acid were reported as detected, and they are already qualified as estimates due to other factors *(note: nondetected phenolic compounds are not further qualified due to surrogate recoveries $\geq$ 10%). [The consistently low recoveries for phenolic compounds in soils from location P31 suggests the soils have capacity to yield elevated alkalinities, buffering capacities and/or high pH.]*

The PCB's surrogate, DCBP, occasionally exhibited higher (up to 136%) than specified (40-126%) recoveries in a few extracts due to contributions of DCBP from elevated levels of [native] Aroclor 1260 (Aroclor 1260 contains small amounts of DCBP). The TPH-Dx surrogate, *o*-terphenyl, exhibited lower than specified recovery (34%) in LCS111914 (in group ZK33) (acceptance range = 50-150% recovery). The associated LCS recovery for diesel fuel is 31.4%, showing the good comparability of the surrogate and analyte recoveries; all other sample extract recoveries for the TPH-Dx surrogate were within the specified range. (The associated LCSD111914 recoveries for the surrogate and diesel fuel were 80% and 74.7%, respectively.) PCDD/PCDF stable isotope-labeled compound recoveries in site samples were well within acceptable limits; 57-107%. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed out-of-compliance (RPD's > 20) responses for various VOC and SVOC constituents, such as bromomethane and bromoethane (ZK10, ZK33, ZK50, ZK75, ZN97, ZO01, ZO28, ZP37 & ZP53), acetone & carbon disulfide (ZN97, ZO01 & ZO28), acetone, 2-butanone & carbon tetrachloride (ZP37 & ZP53), acrolein (ZJ92), 1,2,3-trichloropropane (ZK10 & ZK33), *trans*-1,4-dichloro-2-butene (ZK10 & ZK33), phenol, diethylphthalate, nitrobenzene, 2,4-dimethylphenol, 1,2,4-trichlorobenzene & 4-chloro-3-methylphenol$_{M.8270D-FS}$ (ZK50), isophorone (ZJ92 & ZK10),

benzyl alcohol & pentachlorophenol$_{M.8270D-FS}$ (ZK10), fluorene & chlorophenylphenylether (ZJ92 & ZK10), butylbenzylphthalate & pentachlorophenol$_{M.8270D-SIM}$ (ZJ92 & ZK10), pentachlorophenol & benzyl alcohol$_{M.8270D-SIM}$ (ZK33), 2-methylphenol $_{M.8270D-SIM}$ (ZN97 & ZO01), benzyl alcohol, butylbenzylphthalate, nitrobenzene, 2,4-dimethylphenol, 2,4-dichlorophenol, 1,2,4-trichlorobenzene, 4-chloro-3-methylphenol & N-nitrosodimethylamine $_{M.8270D-FS}$ (ZN97 & ZO01), 1,2,4-trichlorobenzene, chlorophenylphenylether, benzoic acid, pentachlorophenol, carbazole & N-nitrosodimethylamine$_{M.8270D-FS}$ (ZK33), 2-chlorophenol (ZO28), carbazole & di-n-octylphthalate (ZO28, ZP37 & ZP53), pentachlorophenol$_{M.8270D-SIM}$ (ZK50 & ZK75), and carbazole (ZK75). Reported data for <u>detected</u> analytes associated with noncompliant CCV's are qualified as estimates with the "J_Q" code, even though the data quality by other measures, such as LCS/LCSD and MS/MSD performance, is within acceptable limits. Affected [detected] results are limited and are for acetone, carbon disulfide, 2-butanone, phenol, 2-methylphenol, 2,4-dimethylphenol, 4-chloro-3-methylphenol, pentachlorophenol, carbazole, diethylphthalate and butylbenzylphthalate in selected samples.

Two pairs of blind **field duplicate** samples were collected and submitted for analyses for the assessment of monitoring variability. Duplicate pairs are identified in the attached table of sample results for ICS-P29-SO-16-121014 and ICS-P32-SO-16-121514. Variability in terms of relative percent difference (RPD) for all parameters generally averaged less than 50% for duplicate pairs. Greatest RPDs (up to 130) were observed for VOC analytes in ICS-P32-SO-16-121514. Laboratory duplicate analyses were generally less than 20 RPD (within SAP specifications) for all parameters, with the exception of metals in sample ICS-P27-SO-3-111114, ICS-P11-SO-4-111714 and ICS-P29-SO-4-121014. Variability in metals levels for ICS-P27-SO-3-111114 approached 30 RPD for arsenic, chromium and copper; and RPD's for arsenic, cadmium, copper and nickel in ICS-P29-SO-4-121014 were 28, 38, 56 and 35, respectively - metals for this sample exhibited some of the highest levels during this monitoring event indicating the variability to be associated with natural heterogeneity from contaminated solids. Metals in ICS-P11-SO-4-111714 exhibited outlier values in the initial analyses, whereas the duplicate and the associated matrix spike indicate the secondary values (from the duplicate and the MS) to be more representative and with low variability. In the case of chromium, lead, mercury and zinc for ICS-P11-SO-4-111714, the initial results were replaced with the secondary values (Cr of 39.8 mg/kg replaced with 10.4, Pb of 140 replaced with 4.9, Hg of 0.14 replaced with 0.05, and Zn of 37 replaced with 30 mg/kg). Matrix spike recoveries associated with the secondary values ranged from 89% to 112%. Greatest monitoring variability is demonstrated for metals in soils in the upper soil horizons that exhibit natural variability associated with [the more] contaminated solids. No results required qualification due to monitoring variability.

TPH-Dx analyses indicate the principal recognizable patterns are associated with unresolved complex mixtures (UCM's) characterized as weathered diesel fuel (or heating oil), mineral oil (or dielectric fluid) and lubricant petroleum hydrocarbons. Bold type values are associated with the patterns that most likely identify the hydrocarbon mixture present, such as [weathered] diesel fuel, mineral oil and/or motor/lubricant oil. The greatest levels of petroleum hydrocarbon mixtures are associated with mineral oil and/or dielectric fluid, and secondly with diesel fuel. The mineral oil profiles are associated with PCB's, indicating the likely derivative to be dielectric fluids. TPH-G analyses indicate that several soil samples exhibit a pattern resembling relatively non-weathered gasoline, with the greatest levels of gasoline-type hydrocarbon

mixtures found at P18 and P30. Gasoline, diesel/fuel oil, mineral oil/dielectric fluid, and lubricant-like hydrocarbon profiles were found and highlighted in bold in the attached results table.

Dual-column analyses were performed for chlorinated pesticides (M.8081B) and PCB's (M.8082), as specified. Variability in responses between the two columns is specified to be less than 40% RPD for compound identification and assignment. In some cases, however, the analyst has determined that the analyte is likely present, even though the variability in responses exceeds the criterion of < 40%. 4,4'-DDD, 4,4'-DDE, dieldrin and Aroclor 1254 were determined to be likely present and at estimated concentrations for several project samples, even though the 40%-criterion was not met. In these cases, estimated concentrations (by M.8081B and M.8082) of selected analytes are reported (generally the lower of the two levels from the dual-column analyses) in the attached results table with the associated "J_P" qualifier code.

GC/MS full-scan (M.8270D) instrumental binary files were evaluated for selected samples for confirmation analysis of elevated pesticides and for determination of general chemical contaminant characteristics. 4,4'-DDE was reported at 350 µg/kg by M.8081B in ICS-P29-SO-4-121014, however inspection of M.8270D raw data files indicates that DDE is not present at an estimated lower reporting limit of 200-250 µg/kg. The DDE false positive by M.8081B is likely a result of the elevated levels of PCB's interfering with chlorinated pesticides analyses. Principal contamination in ICS-P29-SO-4-121014 as determined by M.8270D is mineral oil associated with dielectric fluid. M.8270D files were reviewed to confirm the presence of dieldrin reported by M.8081B in ICS-P16-SO-4-121014. Similarly, 4,4'-DDE and 4,4'-DDD are confirmed as present by M.8270D in samples ICS-P18-SO-4-121614 and ICS-P18-SO-16-121614. Principal contamination in ICS-P13-SO-4-111314 is determined by GC/MS (M.8270D) to be associated with the nontarget compounds biphenyl, diphenylether and diphenylmethane at several hundred parts per million (ppm; mg/kg).

The PCDD/PCDF profiles reported for the two soil samples ICS-P18-SO-16-121614 and ICS-P21-SO-13-120814 are similar and are characteristic of contributions from processes associated with both [oxidized] PCB's and chlorinated phenols (principally PCP).

Sample results reported here are determined to be in general compliance with method and SAP requirements. Most deviations of data quality from SAP and method specifications are associated with generally elevated levels of multiple contaminants and/or matrix interferences in site soils. All reported data for subsurface soil samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3	Copper 7440-50-8	Lead 7439-92-1	Mercury 7439-97-6	Nickel 7440-02-0	Silver 7440-22-4
					%	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-P27-SO-3-111114	soil-pushprobe	11/11/14	1 - 3'	1424562-ZJ92A	78	**0.3 J_R**	**10.9**	0.2 U	**2.2**	**29.3**	**340**	**388**	**0.24**	**24.4**	**0.9**
ICS-P27-SO-11-111114	soil-pushprobe	11/11/14	9 - 11'	1424563-ZJ92B	69	0.3 U	**3.9**	0.3 U	**0.4**	**17.2**	**68.5**	**52.0**	**0.06**	**13.9**	0.3 U
ICS-P27-SO-16-111114	soil-pushprobe	11/11/14	15 - 17'	1424564-ZJ92C	80	0.2 U	**0.9**	0.2 U	0.1 U	**9.8**	**10.6**	**1.4**	0.03 U	**8.3**	0.2 U
ICS-P27-SO-32-111114	soil-pushprobe	11/11/14	31 - 33'	1424565-ZJ92D	78	0.3 U	**1.3**	0.3 U	0.1 U	**11.5**	**14.5**	**1.9**	0.03 U	**9.5**	0.3 U
ICS-P25-SO-3-111114	soil-pushprobe	11/11/14	1 - 3'	1424566-ZJ92E	88	0.2 U	**6.2**	0.2 U	**0.3**	**21.1**	**21.9**	**42.2**	**0.38**	**13.7**	0.2 U
ICS-P25-SO-10-111114	soil-pushprobe	11/11/14	9 - 11'	1424567-ZJ92F	75	0.3 U	**2.9**	0.3 U	0.1 U	**12.3**	**16.5**	**5.8**	**0.05**	**8.8**	0.3 U
ICS-P25-SO-16-111114	soil-pushprobe	11/11/14	15 - 17'	1424568-ZJ92G	76	0.2 U	**1.6**	0.2 U	0.1 U	**9.9**	**11.9**	**1.5**	0.03 U	**7.6**	0.2 U
ICS-P17-SO-4-111214	soil-pushprobe	11/12/14	4.5 - 6.5'	1424619-ZK10A	76	0.3 U	**1.8**	0.3 U	0.1 U	**12.3**	**11.1**	**8.0**	**0.06**	**6.6**	0.3 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/14	9 - 11'	1424620-ZK10B	66	0.3 U	**6.5**	**0.3**	0.1 U	**14**	**22.4**	**3.6**	**0.03**	**10.9**	0.3 U
ICS-P17-SO-16-111214	soil-pushprobe	11/12/14	15 - 17'	1424621-ZK10C	82	0.2 U	**2.3**	0.2 U	0.1 U	**12**	**13.2**	**1.5**	0.02 U	**9.6**	0.2 U
ICS-P20-SO-3-111214	soil-pushprobe	11/12/14	2 - 4'	1424622-ZK10D	94	0.2 U	**4.3**	0.2 U	0.1 U	**10**	**11.6**	**2.6**	**0.03**	**8.5**	0.2 U
ICS-P20-SO-10-111214	soil-pushprobe	11/12/14	9.5 - 11'	1424623-ZK10E	73	0.3 U	**3.4**	0.3 U	0.1 U	**12**	**19.1**	**2.3**	**0.03**	**9.7**	0.3 U
ICS-P20-SO-16-111214	soil-pushprobe	11/12/14	15 - 17'	1424624-ZK10F	74	0.2 U	**2.0**	0.2 U	0.1 U	**12**	**16.4**	**2.1**	0.02 U	**9.8**	0.2 U
ICS-P23-SO-3-111214	soil-pushprobe	11/12/14	2 - 4'	1424625-ZK10G	93	0.2 U	**6.3**	0.2 U	**0.4**	**10.2**	**107**	**76.4**	**0.03**	**12.8**	0.2 U
ICS-P23-SO-10-111214	soil-pushprobe	11/12/14	9.5 - 11	1424626-ZK10H	72	0.3 U	**3.3**	0.3 U	0.1 U	**13.0**	**20.7**	**2.6**	0.03 U	**16.2**	0.3 U
ICS-P23-SO-16-111214	soil-pushprobe	11/12/14	15 - 17'	1424627-ZK10I	75	0.3 U	**1.9**	0.3 U	0.1 U	**11.2**	**16.5**	**1.9**	0.03 U	**9.8**	0.3 U
ICS-P13-SO-4-111314	soil-pushprobe	11/13/14	4 - 6'	1424778-ZK33A	89	0.2 U	**6.2**	0.2 U	**0.5**	**36**	**21.1**	**147**	**0.17**	**12.3**	0.2 U
ICS-P13-SO-10-111314	soil-pushprobe	11/13/14	9.5 - 11'	1424779-ZK33B	78	0.2 U	**1.4**	0.2 U	0.1 U	**11.4**	**11.5**	**1.8**	0.03 U	**6.7**	0.2 U
ICS-P13-SO-17-111314	soil-pushprobe	11/13/14	16.5 - 18'	1424780-ZK33C	79	0.2 U	**2.2**	0.2 U	0.1 U	**12**	**12.4**	**1.7**	0.03 U	**8.9**	0.2 U
ICS-P24-SO-4-111314	soil-pushprobe	11/13/14	3 - 5'	1424781-ZK33D	89	0.2 U	**2.3**	0.2 U	**0.2**	**17**	**12.1**	**21.3**	**0.05**	**13.3**	0.2 U
ICS-P24-SO-10-111314	soil-pushprobe	11/13/14	9 - 10.5'	1424782-ZK33E	78	0.3 U	**3.7**	0.3 U	**0.2**	**20**	**16.0**	**34.0**	**2.05**	**11.6**	0.3 U
ICS-P24-SO-16-111314	soil-pushprobe	11/13/14	15 - 17'	1424783-ZK33F	79	0.2 U	**1.0**	0.2 U	0.1 U	**10**	**8.8**	**1.2**	0.03 U	**8.1**	0.2 U
ICS-P26-SO-4-111314	soil-pushprobe	11/13/14	3 - 5'	1424784-ZK33G	89	0.2 U	**25.7**	**0.3**	**0.4**	**31**	**37.8**	**75.5**	**0.06**	**33.5**	0.2 U
ICS-P26-SO-10-111314	soil-pushprobe	11/13/14	9 - 11'	1424785-ZK33H	68	0.3 U	**2.7**	0.3 U	0.1 U	**13.3**	**22.7**	**2.8**	0.03 U	**11.7**	0.3 U
ICS-P26-SO-16-111314	soil-pushprobe	11/13/14	15 - 17'	1424786-ZK33I	72	0.3 U	**2.5**	0.3 U	0.1 U	**13.8**	**21.9**	**2.8**	0.03 U	**12.4**	0.3 U
ICS-P14-SO-4-111414	soil-pushprobe	11/14/14	3 - 5'	1424892-ZK50A	83	0.2 U	**2.5**	0.2 U	**0.4**	**69.4**	**13.3**	**48.6**	**0.07**	**11.8**	0.2 U
ICS-P14-SO-10-111414	soil-pushprobe	11/14/14	10 - 11.5'	1424893-ZK50B	71	0.3 U	**3.4**	0.3 U	0.1 U	**14.8**	**20.6**	**3.4**	**0.05**	**10.7**	0.3 U
ICS-P14-SO-16-111414	soil-pushprobe	11/14/14	15 - 17'	1424894-ZK50C	78	0.2 U	**1.9**	0.2 U	0.1 U	**11.4**	**12.6**	**1.6**	0.03 U	**8.0**	0.2 U
ICS-P15-SO-4-111414	soil-pushprobe	11/14/14	3 - 5'	1424895-ZK50D	81	0.2 U	**3.0**	0.2 U	**0.3**	**16.6**	**34.9**	**45.7**	**0.07**	**10.1**	0.2 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/14	8.5 - 10'	1424896-ZK50E	68	0.3 U	**4.6**	0.3 U	**0.3**	**16.4**	**25.3**	**9.0**	**0.05**	**23.4**	0.3 U
ICS-P15-SO-16-111414	soil-pushprobe	11/14/14	15 - 17'	1424897-ZK50F	78	0.2 U	**1.4**	0.2 U	0.1 U	**8.7**	**9.5**	**1.2**	0.03 U	**7.8**	0.2 U
ICS-P22-SO-4-111414	soil-pushprobe	11/14/14	3 - 4.5'	1424898-ZK50G	89	0.2 U	**3.1**	0.2 U	**0.2**	**19.1**	**16.1**	**42.1**	**0.06**	**12.0**	0.2 U
ICS-P22-SO-10-111414	soil-pushprobe	11/14/14	9 - 11'	1424899-ZK50H	76	0.3 U	**3.2**	0.3 U	0.1 U	**13.6**	**20.1**	**2.8**	**0.03**	**10.7**	0.3 U
ICS-P22-SO-16-111414	soil-pushprobe	11/14/14	15 - 17'	1424900-ZK50I	70	0.3 U	**2.6**	0.3 U	0.1 U	**12.9**	**21.9**	**2.7**	0.03 U	**10.8**	0.3 U
ICS-P11-SO-4-111714	soil-pushprobe	11/17/14	3 - 4.5'	1424964-ZK75A	79	0.2 U	**1.4**	0.2 U	0.1 U	**10.4**	**13.6**	**4.9**	**0.05**	**9.9**	0.2 U
ICS-P11-SO-10-111714	soil-pushprobe	11/17/14	9.5 - 11'	1424965-ZK75B	64	0.3 U	**5.2**	0.3 U	0.1 U	**16.2**	**29.3**	**4.2**	0.04 U	**12.3**	0.3 U
ICS-P11-SO-16-111714	soil-pushprobe	11/17/14	15 - 17'	1424966-ZK75C	81	0.2 U	**0.8**	0.2 U	0.1 U	**8.4**	**9.0**	**1.3**	0.02 U	**6.1**	0.2 U
ICS-P12-SO-4-111714	soil-pushprobe	11/17/14	3 - 4.5'	1424967-ZK75D	89	0.2 U	**1.0**	0.2 U	0.1 U	**10.1**	**9.9**	**1.7**	0.03 U	**8.2**	0.2 U
ICS-P12-SO-10-111714	soil-pushprobe	11/17/14	9.8 - 11'	1424968-ZK75E	68	0.3 U	**4.7**	0.3 U	0.1 U	**14.2**	**22.4**	**3.1**	**0.04**	**12.1**	0.3 U
ICS-P12-SO-13-111714	soil-pushprobe	11/17/14	12 - 14'	1424970-ZK75G	69	0.3 U	**3.6**	0.3 U	0.1 U	**13.7**	**20.1**	**2.8**	**0.03**	**10.4**	0.3 U
ICS-P12-SO-16-111714	soil-pushprobe	11/17/14	15 - 17'	1424969-ZK75F	75	0.3 U	**3.6**	0.3 U	0.1 U	**12.5**	**18.5**	**2.1**	0.03 U	**10.5**	0.3 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Antimony 7440-36-0	Arsenic 7440-38-2	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3	Copper 7440-50-8	Lead 7439-92-1	Mercury 7439-97-6	Nickel 7440-02-0	Silver 7440-22-4
					%	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-P21-SO-7-120814	soil-pushprobe	12/8/14	6 - 8'	1426680-ZN97A	84	0.2 U	**3.3**	0.2 U	**0.3**	**32.1**	**27.5**	**127**	**0.23**	**21.3**	0.2 U
ICS-P21-SO-13-120814	soil-pushprobe	12/8/14	12 - 14'	1426681-ZN97B	70	0.3 U	**4.7**	**0.3**	**0.3**	**23.0**	**21.7**	**23.6**	**2.94**	**15.0**	0.3 U
ICS-P21-SO-16-120814	soil-pushprobe	12/8/14	15 - 17'	1426682-ZN97C	74	0.3 U	**2.4**	0.3 U	0.1 U	**11.1**	**17.6**	**2.3**	**0.04**	**9.0**	0.3 U
ICS-P21-SO-32-120814	soil-pushprobe	12/8/14	31 - 33'	1426683-ZN97D	80	0.2 U	**0.7**	0.2 U	0.1 U	**9.5**	**9.8**	**1.3**	0.03 U	**7.3**	0.2 U
ICS-P33-SO-16-120814	soil-pushprobe	12/8/14	15 - 17'	1426684-ZN97E	74	0.3 U	**1.9**	0.3 U	0.1 U	**13.2**	**19.7**	**2.5**	0.03 U	**10.8**	0.3 U
ICS-P33-SO-32-120814	soil-pushprobe	12/8/14	31 - 33'	1426685-ZN97F	81	0.2 U	**0.7**	0.2 U	0.1 U	**9.6**	**9.3**	**1.1**	0.03 U	**6.8**	0.2 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/14	6 - 7'	1426754-ZO01A	90	0.2 U	**2.7**	0.2 U	**0.4**	**46.1**	**58.8**	**71.1**	**0.26**	**34.8**	0.2 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/14	12.5 - 13.5'	1426755-ZO01B	85	0.2 U	**4.4**	**0.2**	**0.6**	**27.1**	**37.5**	**41.9**	**0.08**	**25.0**	**0.3**
ICS-P30-SO-16-120914	soil-pushprobe	12/9/14	15 - 16.5'	1426756-ZO01C	62	0.3 U	**7.6**	**0.3**	0.2 U	**19.7**	**29.2**	**17.5**	**0.12**	**16.7**	0.3 U
ICS-P30-SO-32-120914	soil-pushprobe	12/9/14	31 - 33'	1426757-ZO01D	83	0.2 U	**1.3**	0.2 U	0.1 U	**8.7**	**9.4**	**1.3**	0.02 U	**8.2**	0.2 U
ICS-P31-SO-4-120914	soil-pushprobe	12/9/14	3 - 4'	1426758-ZO01E	81	0.2 U	**3.6**	0.2 U	0.1 U	**14.2**	**17.6**	**6.6**	**0.06**	**10.8**	0.2 U
ICS-P31-SO-10-120914	soil-pushprobe	12/9/14	9 - 11'	1426759-ZO01F	75	0.3 U	**1.6**	0.3 U	0.1 U	**12.9**	**13.3**	**1.9**	0.03 U	**7.5**	0.3 U
ICS-P31-SO-16-120914	soil-pushprobe	12/9/14	15 - 17'	1426760-ZO01G	74	0.3 U	**1.2**	0.3 U	0.1 U	**11.7**	**11.7**	**1.6**	0.03 U	**8.9**	0.3 U
ICS-P31-SO-32-120914	soil-pushprobe	12/9/14	31 - 33'	1426761-ZO01H	80	0.2 U	**3.6**	0.2 U	0.1 U	**8.7**	**8.9**	**1.1**	0.03 U	**7.8**	0.2 U
ICS-P29-SO-4-121014	soil-pushprobe	12/10/14	3 - 4'	1426963-ZO28A	82	**1.3 J_R**	**12.2**	**0.2**	**8.1**	**755**	**205**	**4590**	**5.3**	**156**	**0.3**
ICS-P29-SO-10-121014	soil-pushprobe	12/10/14	9 - 10'	1426964-ZO28B	71	0.3 U	**0.8**	**0.6**	0.1 U	**21.5**	**21.1**	**8.2**	0.03 U	**6.9**	**0.3**
ICS-P29-SO-16-121014	soil-pushprobe	12/10/14	15 - 17'	1426965-ZO28C	76	0.3 U	**1.7**	0.3 U	0.1 U	**11.8**	**14.7**	**2.1**	**0.03**	**8.5**	0.3 U
ICS-DUP2-121014	soil-pushprobe	12/10/14	dup. of P29-SO-16	1426970-ZO28H	76	0.2 U	**1.7**	0.2 U	0.1 U	**12.2**	**13.7**	**2.0**	**0.04**	**8.8**	0.2 U
ICS-P29-SO-32-121014	soil-pushprobe	12/10/14	31 - 33'	1426966-ZO28D	73	0.3 U	**2.4**	0.3 U	0.1 U	**11.3**	**17.1**	**2.1**	**0.03**	**9.5**	0.3 U
ICS-P16-SO-4-121014	soil-pushprobe	12/10/14	3 - 4'	1426967-ZO28E	95	0.2 U	**4.0**	0.2 U	**0.3**	**15.9**	**11.2**	**2.1**	0.02 U	**7.7**	0.2 U
ICS-P16-SO-10-121014	soil-pushprobe	12/10/14	9 - 10'	1426968-ZO28F	73	0.3 U	**2.3**	0.3 U	0.1 U	**12.9**	**18.5**	**2.2**	**0.03**	**9.7**	0.3 U
ICS-P16-SO-16-121014	soil-pushprobe	12/10/14	15 - 17'	1426969-ZO28G	74	0.3 U	**1.8**	0.3 U	0.1 U	**11.0**	**14.8**	**1.9**	0.03 U	**8.4**	0.3 U
ICS-P28-SO-4-121514	soil-pushprobe	12/15/14	3 - 5'	1427558-ZP37A	72	0.3 U	**5.3**	**0.3**	0.1 U	**11.5**	**15.9**	**2.2**	0.03 U	**9.2**	0.3 U
ICS-P28-SO-10-121514	soil-pushprobe	12/15/14	8.5 - 10'	1427559-ZP37B	56	0.3 U	**4.6**	**0.4**	0.2 U	**14.0**	**25.1**	**3.4**	0.04 U	**11.9**	0.3 U
ICS-P28-SO-16-121514	soil-pushprobe	12/15/14	15 - 17'	1427560-ZP37C	81	0.2 U	**1.7**	**0.3**	0.1 U	**8.7**	**10.2**	**1.2**	0.02 U	**6.8**	0.2 U
ICS-P28-SO-32-121514	soil-pushprobe	12/15/14	31 - 33'	1427561-ZP37D	80	0.2 U	**0.8**	0.2 U	0.1 U	**7.1**	**6.3**	**0.8**	0.02 U	**4.9**	0.2 U
ICS-P32-SO-16-121514	soil-pushprobe	12/15/14	16 - 17.5'	1427562-ZP37E	80	0.2 U	**3.6**	**0.3**	0.1 U	**9.9**	**10.1**	**1.2**	0.02 U	**8.0**	0.2 U
ICS-SO-DUPL3-121514	soil-pushprobe	12/15/14	dup. of P32-SO-16	1427564-ZP37G	82	0.2 U	**1.9**	0.2 U	0.1 U	**9.4**	**9.2**	**1.1**	0.03 U	**7.0**	0.2 U
ICS-P32-SO-32-121514	soil-pushprobe	12/15/14	31 - 33'	1427563-ZP37F	83	0.2 U	**1.1**	**0.2**	0.1 U	**8.7**	**8.2**	**0.9**	0.03 U	**7.2**	0.2 U
ICS-P18-SO-4-121614	soil-pushprobe	12/16/14	3 - 5'	1427717-ZP53A	92	0.2 U	**2.7**	0.2 U	**0.4**	**24.3**	**19.7**	**38.1**	**0.20**	**15.3**	0.2 U
ICS-P18-SO-10-121614	soil-pushprobe	12/16/14	9 - 10'	1427718-ZP53B	86	0.2 U	**3.8**	0.2 U	**0.4**	**60.4**	**21.1**	**68.5**	**0.22**	**23.2**	0.2 U
ICS-P18-SO-16-121614	soil-pushprobe	12/16/14	14 - 16'	1427719-ZP53C	79	**0.3 J_R**	**6.9**	0.3 U	**1.0**	**63.1**	**108**	**950**	**4.8**	**17.0**	**0.3**
ICS-P18-SO-32-121614	soil-pushprobe	12/16/14	31 - 33'	1427720-ZP53D	81	0.2 U	**0.7**	0.2 U	0.1 U	**9.9**	**7.5**	**1.2**	0.03 U	**7.3**	0.2 U
ICS-P19-SO-4-121614	soil-pushprobe	12/16/14	3 - 4'	1427721-ZP53E	92	0.2 U	**3.9**	0.2 U	**0.3**	**30.8**	**19.2**	**60.5**	**0.10**	**23.0**	0.2 U
ICS-P19-SO-10-121614	soil-pushprobe	12/16/14	9 - 10'	1427722-ZP53F	75	0.3 U	**3.9**	0.3 U	0.1 U	**15.1**	**21.0**	**2.9**	0.03 U	**13.8**	0.3 U
ICS-P19-SO-16-121614	soil-pushprobe	12/16/14	15 - 17'	1427723-ZP53G	78	0.3 U	**2.4**	0.3 U	0.1 U	**11.7**	**21.8**	**6.2**	**0.04**	**9.2**	0.3 U

J_R = estimate; due to low matrix spike recovery. Value likely biased low.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Zinc 7440-66-6 mg/kg, dry	Total Petroleum Hydrocarbons			Chloro-methane 74-87-3 µg/kg, dry	Bromo-methane 74-83-9 µg/kg, dry	Vinyl chloride 75-01-4 µg/kg, dry	Chloro-ethane 75-00-3 µg/kg, dry	Methylene chloride 75-09-2 µg/kg, dry	Acetone 67-64-1 µg/kg, dry	Carbon disulfide 75-15-0 µg/kg, dry	1,1-Dichloro-ethene 75-35-4 µg/kg, dry	1,1-Dichloro-ethane 75-34-3 µg/kg, dry	*trans* -1,2-Dichloroethene 156-60-5 µg/kg, dry	*cis* -1,2-Dichloroethene 156-59-2 µg/kg, dry	Chloroform 67-66-3 µg/kg, dry
		Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	Lube-range mg/kg, dry												
ICS-P27-SO-3-111114	**910**	8.7 U	9	**34**	**47**	**77**	1.5 U	1.5 U	**3.1**	**110**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P27-SO-11-111114	**690**	12 U	7.2 U	14 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.9**	**23**	**4.6**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P27-SO-16-111114	**24**	6.7 U	6.2 U	12 U	1.2 U	1.2 U	1.2 U	1.2 U	**2.5**	**7.9**	**1.5**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P27-SO-32-111114	**27**	7.7 U	**8.8**	13 U	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	6.2 U	**2.3**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P25-SO-3-111114	**140**	8.6 U	27	**53** *	1.5 U	1.5 U	1.5 U	1.5 U	2.9 U	**26**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P25-SO-10-111114	**46**	8.5 U	14	**37**	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P25-SO-16-111114	**24**	8.1 U	**12**	13 U	1.5 U	1.5 U	1.5 U	1.5 U	**3.7**	**13**	**1.6**	1.5 U	1.5 U	1.5 U	**2.0**	1.5 U
ICS-P17-SO-4-111214	**26**	150	**950**	**290** *	1.4 U	**98 J_R**	1.4 U	1.4 U	**5.6**	**68**	**4.9**	1.4 U	**2.7**	1.4 U	**8.3**	1.4 U
ICS-P17-SO-10-111214	**33**	13 U	7.7 U	16	2.0 U	**1.1 J**	2.0 U	2.0 U	**4.4**	**89**	**3.0**	2.0 U	**3.4**	**1.8 J**	2.0 U	2.0 U
ICS-P17-SO-16-111214	**29**	8.1 U	6.1 U	12 U	1.4 U	1.4 U	1.4 U	1.4 U	**5.3**	**130**	**7.5**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P20-SO-3-111214	**39**	7.7 U	11	**11**	1.5 U	1.5 U	1.5 U	1.5 U	**6.0**	**7.8**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P20-SO-10-111214	**30**	9.2 U	6.8 U	14 U	1.3 U	1.3 U	1.3 U	1.3 U	**3.5**	**14**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P20-SO-16-111214	**30**	9.0 U	6.6 U	13 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	**5.9 J**	**2.0**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P23-SO-3-111214	**137**	9.3 U	5.4	**22**	1.4 U	1.4 U	1.4 U	1.4 U	**5.4**	**26**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P23-SO-10-111214	**32**	10 U	6.8 U	14 U	0.7 U	0.7 U	0.7 U	0.7 U	**1.9**	**10**	**1.1**	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
ICS-P23-SO-16-111214	**27**	8.7 U	6.9 U	14 U	1.3 U	1.3 U	1.3 U	1.3 U	**5.3**	6.6 U	**4.0**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P13-SO-4-111314	**200**	80 U	1600	**760** *	1.4 U	1.4 U	1.4 U	1.4 U	**4.4**	**63**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P13-SO-10-111314	**23**	8.2 U	6.4 U	13 U	1.5 U	1.5 U	1.5 U	1.5 U	**6.8**	**70**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P13-SO-17-111314	**27**	7.4 U	6.2 U	12 U	1.5 U	1.5 U	1.5 U	1.5 U	**6.4**	**40**	**5.7**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P24-SO-4-111314	**89**	6.9 U	12	20	1.6 U	1.6 U	1.6 U	1.6 U	**6.8**	**18**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P24-SO-10-111314	**82**	7.6 U	**810** *	**2000** *	1.5 U	1.5 U	1.5 U	1.5 U	**4.2**	**10**	**4.7**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P24-SO-16-111314	**23**	8.6 U	6.2 U	12 U	1.2 U	1.2 U	1.2 U	1.2 U	**3.2**	**12**	**1.2**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P26-SO-4-111314	**100**	9.9 U	28	**86**	1.3 U	1.3 U	1.3 U	1.3 U	**3.1**	**21**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P26-SO-10-111314	**33**	8.8 U	6.9 U	14 U	1.6 U	1.6 U	1.6 U	1.6 U	3.3 U	**19**	**1.9**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P26-SO-16-111314	**37**	11 U	6.8 U	14 U	1.4 U	1.4 U	1.4 U	1.4 U	**3.0**	**14**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-4-111414	**96**	10	**15**	**20**	1.4 U	1.4 U	1.4 U	1.4 U	**6.2 J_B**	**44**	**7.6**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-10-111414	**39**	96 U	6.7 U	13 U	1.4 U	1.4 U	**0.7 J**	1.4 U	**4.2 J_B**	**28**	**5.8**	1.4 U	1.4 U	1.4 U	**9.9**	1.4 U
ICS-P14-SO-16-111414	**25**	8.4 U	6.1 U	12 U	1.4 U	1.4 U	1.4 U	1.4 U	**6.1 J_B**	**16**	**2.1**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P15-SO-4-111414	**68**	7.5 U	**260**	**160**	1.5 U	1.5 U	**32**	1.5 U	**7.4 J_B**	**19**	**2.0**	1.5 U	**180**	**6.1**	**32**	1.5 U
ICS-P15-SO-10-111414	**67**	11 U	**25**	**78**	1.8 U	1.8 U	1.8 U	1.8 U	**6.4 J_B**	**150**	**4.3**	1.8 U	**2.7**	**1.4 J**	**30**	1.8 U
ICS-P15-SO-16-111414	**24**	9.8 U	6.2 U	12 U	1.6 U	1.6 U	1.6 U	1.6 U	**5.5 J_B**	**24**	**4.3**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P22-SO-4-111414	**60**	**10**	**15**	**41**	2.4 U	2.4 U	2.4 U	2.4 U	**9.9 J_B**	**140**	**6.0**	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
ICS-P22-SO-10-111414	**30**	9.0 U	8.7	19	1.3 U	1.3 U	1.3 U	1.3 U	**4.6 J_B**	6.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P22-SO-16-111414	**31**	10 U	6.7 U	13 U	1.5 U	1.5 U	1.5 U	1.5 U	**5.0 J_B**	**32**	**0.9 J**	1.5 U	1.5 U	1.5 U	**1.6**	1.5 U
ICS-P11-SO-4-111714	**30**	9.0 U	5.2 U	10 U	1.6 U	1.6 U	1.6 U	1.6 U	**8.4 J_B**	**55**	**2.7**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P11-SO-10-111714	**33**	13 U	8.2 U	17	1.9 U	1.9 U	1.9 U	1.9 U	**6.8 J_B**	**71**	**2.5**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P11-SO-16-111714	**24**	7.4 U	6.0 U	12 U	1.2 U	1.2 U	1.2 U	1.2 U	**2.9 J_B**	**23**	**1.0 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P12-SO-4-111714	**26**	**23**	6.9	11 U	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	**46**	**2.7**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P12-SO-10-111714	**34**	9.0 U	7.0 U	14 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**28**	**1.0 J**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-13-111714	**30**	11 U	6.8 U	14 U	1.8 U	1.8 U	1.8 U	1.8 U	**6.7 J_B**	**42**	**1.3 J**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-16-111714	**29**	9.9 U	6.5 U	13 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.3 J_B**	7.9 U	**1.1 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Zinc 7440-66-6 mg/kg, dry	Total Petroleum Hydrocarbons Gasoline-range mg/kg, dry	Diesel-range mg/kg, dry	Lube-range mg/kg, dry	Chloro-methane 74-87-3 µg/kg, dry	Bromo-methane 74-83-9 µg/kg, dry	Vinyl chloride 75-01-4 µg/kg, dry	Chloro-ethane 75-00-3 µg/kg, dry	Methylene chloride 75-09-2 µg/kg, dry	Acetone 67-64-1 µg/kg, dry	Carbon disulfide 75-15-0 µg/kg, dry	1,1-Dichloro-ethene 75-35-4 µg/kg, dry	1,1-Dichloro-ethane 75-34-3 µg/kg, dry	*trans* -1,2-Dichloroethene 156-60-5 µg/kg, dry	*cis* -1,2-Dichloroethene 156-59-2 µg/kg, dry	Chloroform 67-66-3 µg/kg, dry
ICS-P21-SO-7-120814	**82**	94	**270 ***	**500 ***	1.7 U	1.7 U	1.7 U	1.7 U	**4.6 J_B**	8.6 U	**3.4**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P21-SO-13-120814	**79**	28	**290 ***	**690 ***	2.2 U	2.2 U	2.2 U	2.2 U	**5.2 J_B**	**110**	**12**	2.2 U	2.2 U	**5.9**	**45**	2.2 U
ICS-P21-SO-16-120814	**25**	8.9 U	6.7 U	13 U	1.4 U	1.4 U	1.4 U	1.4 U	**3.0 J_B**	**65**	**3.6**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P21-SO-32-120814	**21**	8.7 U	6.1 U	12 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	**39**	**2.2 J_O**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P33-SO-16-120814	**29**	8.6 U	6.7 U	14 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	7.1 U	**1.9 J_O**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P33-SO-32-120814	**20**	7.4 U	6.2 U	12 U	1.3 U	1.3 U	1.3 U	1.3 U	**2.7 J_B**	**22**	**6.0 J_O**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P30-SO-7-120914	**96**	**100**	**800 ***	**2500 ***	1.0 U	1.0 U	1.0 U	1.0 U	**3.4 J_B**	**120**	**5.7 J_O**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P30-SO-13-120914	**157**	**40**	**230 ***	**810 ***	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	**1.5 J_O**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P30-SO-16-120914	**53**	16 U	**16 ***	**31 ***	2.8 U	2.8 U	2.8 U	2.8 U	**6.7 J_B**	**95**	**11 J_O**	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
ICS-P30-SO-32-120914	**24**	7.3 U	6.0 U	12 U	1.4 U	1.4 U	1.4 U	1.4 U	**6.8 J_B**	**17**	**4.3 J_O**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P31-SO-4-120914	**117**	8.5 U	6.5 U	13 U	1.4 U	1.4 U	1.4 U	1.4 U	**2.9 J_B**	**64**	**1.7 J_O**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P31-SO-10-120914	**25**	8.5 U	6.8 U	14 U	1.6 U	1.6 U	1.6 U	1.6 U	**8.1**	**24**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P31-SO-16-120914	**24**	10 U	6.8 U	14 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	**28**	**2.5 J_O**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P31-SO-32-120914	**22**	9.1 U	6.2 U	12 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	6.7 U	**3.3 J_O**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P29-SO-4-121014	**1390**	340	**17,000 ***	**48,000 ***	0.9 U	0.9 U	0.9 U	0.9 U	**2.7**	**49**	**1.6 J_O**	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
ICS-P29-SO-10-121014	**38**	**32**	**110 ***	**220 ***	1.6 U	1.6 U	1.6 U	1.6 U	**5.1**	**700**	**6.3 J_O**	1.6 U	**45**	**8.4**	**73**	1.6 U
ICS-P29-SO-16-121014	**23**	44	**32 ***	**34 ***	1.6 U	1.6 U	1.6 U	1.6 U	**6.1**	**80**	**5.7 J_O**	1.6 U	1.6 U	**2.7**	**11**	1.6 U
ICS-DUP2-121014	**23**	52	**30 ***	**34 ***	2.1 U	2.1 U	2.1 U	2.1 U	**8.0**	**120**	**6.5 J_O**	2.1 U	**1.4 J**	**3.5**	**15**	2.1 U
ICS-P29-SO-32-121014	**26**	9.6 U	6.4 U	13 U	1.6 U	1.6 U	1.6 U	1.6 U	**4.1**	**25**	**2.3 J_O**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P16-SO-4-121014	**65**	10 U	5.4 U	11 U	0.8 U	0.8 U	0.8 U	0.8 U	**2.0**	**14**	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
ICS-P16-SO-10-121014	**26**	13 U	7.0 U	14 U	2.0 U	2.0 U	2.0 U	2.0 U	**6.2**	**79**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P16-SO-16-121014	**22**	10 U	6.8 U	14 U	2.3 U	2.3 U	2.3 U	2.3 U	**9.6**	**43**	**2.5 J_O**	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
ICS-P28-SO-4-121514	**26**	9.2	**13**	13 U	1.9 U	1.9 U	1.9 U	1.9 U	**4.3 J_B**	**19**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P28-SO-10-121514	**29**	19 U	9.4 U	25	2.6 U	2.6 U	2.6 U	2.6 U	**5.8**	**59**	**5.6**	2.6 U	**3.5**	**11**	**48**	2.6 U
ICS-P28-SO-16-121514	**24**	9.2 U	6.0 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	**2.5 J_B**	**160**	**3.6**	1.1 U	**0.6 J**	**2.0**	**0.7 J**	1.1 U
ICS-P28-SO-32-121514	**15**	8.7 U	6.0 U	12 U	1.6 U	1.6 U	1.6 U	1.6 U	**5.0**	**61**	**4.8**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P32-SO-16-121514	**24**	8.8 U	6.2 U	12 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.5 J_B**	**29**	**4.1**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-SO-DUPL3-121514	**23**	9.1 U	6.0 U	12 U	3.0 U	3.0 U	3.0 U	3.0 U	**9.6**	**77 J_O**	**6.6**	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
ICS-P32-SO-32-121514	**22**	10 U	5.8 U	12 U	1.6 U	1.6 U	1.6 U	1.6 U	**4.6**	**48**	**8.6**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P18-SO-4-121614	**1230**	**46**	**840**	**740 ***	2.5 U	2.5 U	2.5 U	2.5 U	**8.7**	**88 J_O**	**3.0**	2.5 U	2.5 U	2.5 U	**2.3 J**	2.5 U
ICS-P18-SO-10-121614	**205**	**150**	**210 ***	**410 ***	1.5 U	1.5 U	1.5 U	1.5 U	**5.8**	**82 J_O**	**5.7**	1.5 U	1.5 U	**0.7 J**	1.5 U	1.5 U
ICS-P18-SO-16-121614	**680**	**190**	**2900 ***	**5500 ***	1.4 U	1.4 U	1.4 U	1.4 U	**3.3 J_B**	7.1 U	**3.1**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-32-121614	**21**	8.8 U	6.1 U	12 U	1.4 U	1.4 U	1.4 U	1.4 U	**5.9**	7.1 U	**3.8**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P19-SO-4-121614	**73**	**12**	**300 ***	**1100 ***	1.8 U	1.8 U	1.8 U	1.8 U	**5.4**	**70 J_O**	**2.1**	1.8 U	**0.9 J**	1.8 U	1.8 U	1.8 U
ICS-P19-SO-10-121614	**32**	12 U	**29 ***	**50 ***	1.9 U	1.9 U	1.9 U	1.9 U	**7.2**	**43 J_O**	**5.5**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P19-SO-16-121614	**30**	8.5 U	7.6	**19**	1.6 U	1.6 U	1.6 U	1.6 U	**4.0**	**49 J_O**	**1.5 J**	1.6 U	**0.9 J**	1.6 U	**1.0 J**	1.6 U

** profile resembles mineral oil or dielectric fluid*

black-bolded or highlighted TPH values resemble profiles associated with gasoline, diesel fuel/oil and motor oil lubricant.

J = estimate associated with value less than the verifiable lower quantitation limit.

J_O = estimate; due to noncompliant CCV check.

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/kg, dry	2-Butanone 78-93-3 µg/kg, dry	1,1,1-Tri-chloroethane 71-55-6 µg/kg, dry	Carbon tetrachloride 56-23-5 µg/kg, dry	Bromo-dichloromethane 75-27-4 µg/kg, dry	1,2-Dichloro-propane 78-87-5 µg/kg, dry	*cis* -1,3-Dichloro-propene 10061-01-5 µg/kg, dry	Trichloro-ethene 79-01-6 µg/kg, dry	Dibromo-chloromethane 124-48-1 µg/kg, dry	1,1,2-Trichloro-ethane 79-00-5 µg/kg, dry	Benzene 71-43-2 µg/kg, dry	*trans* -1,3-Dichloropropene 10061-02-6 µg/kg, dry	Bromo-form 75-25-2 µg/kg, dry	4-Methyl-2-pentanone 108-10-1 µg/kg, dry	2-Hexanone 591-78-6 µg/kg, dry	Tetrachloro-ethene 127-18-4 µg/kg, dry
ICS-P27-SO-3-111114	1.5 U	**19**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**2.3**	1.5 U	1.5 U	7.4 U	7.4 U	1.5 U
ICS-P27-SO-11-111114	1.6 U	**7.1 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.8 U	7.8 U	1.6 U
ICS-P27-SO-16-111114	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	6.0 U	1.2 U
ICS-P27-SO-32-111114	1.2 U	6.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.2 U	6.2 U	1.2 U
ICS-P25-SO-3-111114	1.5 U	**6.1 J**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.8 J**	1.5 U	1.5 U	7.3 U	7.3 U	1.5 U
ICS-P25-SO-10-111114	1.4 U	7.2 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	7.2 U	1.4 U
ICS-P25-SO-16-111114	1.5 U	7.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**1.2 J**	1.5 U	1.5 U	7.5 U	7.5 U	1.5 U
ICS-P17-SO-4-111214	1.4 U	7.0 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**2.2**	1.4 U	1.4 U	**0.9 J**	1.4 U	1.4 U	7.0 U	7.0 U	1.4 U
ICS-P17-SO-10-111214	2.0 U	**17**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**15**	2.0 U	2.0 U	10 U	10 U	2.0 U
ICS-P17-SO-16-111214	1.4 U	**14**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.7**	1.4 U	1.4 U	7.2 U	7.2 U	1.4 U
ICS-P20-SO-3-111214	1.5 U	7.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.6 U	7.6 U	1.5 U
ICS-P20-SO-10-111214	1.3 U	6.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U	6.6 U	1.3 U
ICS-P20-SO-16-111214	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	7.7 U	1.5 U
ICS-P23-SO-3-111214	1.4 U	**4.9 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.6**	1.4 U	1.4 U	7.2 U	7.2 U	1.4 U
ICS-P23-SO-10-111214	0.7 U	**2.9 J**	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	3.6 U	3.6 U	0.7 U
ICS-P23-SO-16-111214	1.3 U	6.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U	6.6 U	1.3 U
ICS-P13-SO-4-111314	1.4 U	**8.9**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.9 J**	1.4 U	1.4 U	7.0 U	7.0 U	**5.1**
ICS-P13-SO-10-111314	1.5 U	**11**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	7.4 U	1.5 U
ICS-P13-SO-17-111314	1.5 U	**5.9 J**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.3 U	7.3 U	1.5 U
ICS-P24-SO-4-111314	1.6 U	**9.1**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	7.9 U	**2.4**
ICS-P24-SO-10-111314	1.5 U	**13**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**2.7**	1.5 U	1.5 U	**3.9**	1.5 U	1.5 U	7.6 U	7.6 U	1.5 U
ICS-P24-SO-16-111314	1.2 U	5.8 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.8 U	5.8 U	1.2 U
ICS-P26-SO-4-111314	1.3 U	**4.7 J**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**1.4**	1.3 U	1.3 U	6.4 U	6.4 U	**0.7 J**
ICS-P26-SO-10-111314	1.6 U	**4.8 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.2 U	8.2 U	1.6 U
ICS-P26-SO-16-111314	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	7.1 U	1.4 U
ICS-P14-SO-4-111414	1.4 U	**4.5 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	7.0 U	1.4 U
ICS-P14-SO-10-111414	1.4 U	**5.5 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.0 J**	1.4 U	1.4 U	**2.2**	1.4 U	1.4 U	7.2 U	7.2 U	1.4 U
ICS-P14-SO-16-111414	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	7.1 U	1.4 U
ICS-P15-SO-4-111414	**1.4 J**	7.6 U	1.5 U	1.5 U	1.5 U	**3.8**	1.5 U	**7.3**	1.5 U	1.5 U	**9.3**	1.5 U	1.5 U	7.6 U	7.6 U	**0.8 J**
ICS-P15-SO-10-111414	1.8 U	**29**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.0**	1.8 U	1.8 U	**2.4**	1.8 U	1.8 U	8.9 U	8.9 U	**1.7 J**
ICS-P15-SO-16-111414	1.6 U	8.1 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.1 U	8.1 U	1.6 U
ICS-P22-SO-4-111414	2.4 U	**16**	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	**5.9**	2.4 U	2.4 U	**9.9**	2.4 U	2.4 U	12 U	12 U	2.4 U
ICS-P22-SO-10-111414	1.3 U	6.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**0.9 J**	1.3 U	1.3 U	**11**	1.3 U	1.3 U	6.5 U	6.5 U	1.3 U
ICS-P22-SO-16-111414	1.5 U	7.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**15**	1.5 U	1.5 U	7.6 U	7.6 U	1.5 U
ICS-P11-SO-4-111714	1.6 U	**6.1 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**2.1**	1.6 U	1.6 U	8.1 U	8.1 U	1.6 U
ICS-P11-SO-10-111714	1.9 U	**18**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	**1.7 J**	1.9 U	1.9 U	9.7 U	9.7 U	1.9 U
ICS-P11-SO-16-111714	1.2 U	**3.8 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.9 U	5.9 U	1.2 U
ICS-P12-SO-4-111714	1.6 U	**4.5 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.5**	1.6 U	1.6 U	7.9 U	7.9 U	1.6 U
ICS-P12-SO-10-111714	1.8 U	8.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**20**	1.8 U	1.8 U	8.9 U	8.9 U	1.8 U
ICS-P12-SO-13-111714	1.8 U	**7.1 J**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**5.7**	1.8 U	1.8 U	8.8 U	8.8 U	1.8 U
ICS-P12-SO-16-111714	1.6 U	7.9 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	7.9 U	1.6 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/kg, dry	2-Butanone 78-93-3 µg/kg, dry	1,1,1-Tri-chloroethane 71-55-6 µg/kg, dry	Carbon tetrachloride 56-23-5 µg/kg, dry	Bromo-dichloromethane 75-27-4 µg/kg, dry	1,2-Dichloro-propane 78-87-5 µg/kg, dry	*cis* -1,3-Dichloro-propene 10061-01-5 µg/kg, dry	Trichloro-ethene 79-01-6 µg/kg, dry	Dibromo-chloromethane 124-48-1 µg/kg, dry	1,1,2-Trichloro-ethane 79-00-5 µg/kg, dry	Benzene 71-43-2 µg/kg, dry	*trans* -1,3-Dichloropropene 10061-02-6 µg/kg, dry	Bromo-form 75-25-2 µg/kg, dry	4-Methyl-2-pentanone 108-10-1 µg/kg, dry	2-Hexanone 591-78-6 µg/kg, dry	Tetrachloro-ethene 127-18-4 µg/kg, dry
ICS-P21-SO-7-120814	1.7 U	8.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	**17**	1.7 U	1.7 U	8.6 U	8.6 U	1.7 U
ICS-P21-SO-13-120814	2.2 U	**14**	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	**3.7**	2.2 U	2.2 U	**50**	2.2 U	2.2 U	11 U	11 U	2.2 U
ICS-P21-SO-16-120814	1.4 U	**6.0 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**6.4**	1.4 U	1.4 U	7.2 U	7.2 U	1.4 U
ICS-P21-SO-32-120814	1.2 U	5.9 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.9 U	5.9 U	1.2 U
ICS-P33-SO-16-120814	1.4 U	**5.3 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	7.1 U	1.4 U
ICS-P33-SO-32-120814	1.3 U	6.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.5 U	6.5 U	1.3 U
ICS-P30-SO-7-120914	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**	1.0 U	1.0 U	**4.1**	1.0 U	1.0 U	5.0 U	5.0 U	**0.8 J**
ICS-P30-SO-13-120914	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**21**	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U
ICS-P30-SO-16-120914	2.8 U	**10 J**	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	**2.8**	2.8 U	2.8 U	14 U	14 U	2.8 U
ICS-P30-SO-32-120914	1.4 U	7.2 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.2 J**	1.4 U	1.4 U	7.2 U	7.2 U	1.4 U
ICS-P31-SO-4-120914	1.4 U	**5.7 J**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.9 J**	1.4 U	1.4 U	6.8 U	6.8 U	1.4 U
ICS-P31-SO-10-120914	1.6 U	8.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.2 U	8.2 U	1.6 U
ICS-P31-SO-16-120914	1.7 U	8.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	8.6 U	1.7 U
ICS-P31-SO-32-120914	1.3 U	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	6.7 U	1.3 U
ICS-P29-SO-4-121014	0.9 U	4.6 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	**1.0**	0.9 U	0.9 U	**1.6**	0.9 U	0.9 U	4.6 U	4.6 U	0.9 U
ICS-P29-SO-10-121014	1.6 U	**66**	1.6 U	1.6 U	1.6 U	**10**	1.6 U	**14**	1.6 U	1.6 U	**18**	1.6 U	1.6 U	8.1 U	8.1 U	**5.8**
ICS-P29-SO-16-121014	1.6 U	8.1 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**4.8**	1.6 U	1.6 U	**8.0**	1.6 U	1.6 U	8.1 U	8.1 U	1.6 U
ICS-DUP2-121014	2.1 U	10 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	**8.7**	2.1 U	2.1 U	**11**	2.1 U	2.1 U	10 U	10 U	**1.1 J**
ICS-P29-SO-32-121014	1.6 U	8.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.0 U	8.0 U	1.6 U
ICS-P16-SO-4-121014	0.8 U	4.1 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	4.1 U	4.1 U	0.8 U
ICS-P16-SO-10-121014	2.0 U	**5.5 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	**1.8 J**
ICS-P16-SO-16-121014	2.3 U	**6.6 J**	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	11 U	11 U	2.3 U
ICS-P28-SO-4-121514	1.9 U	9.5 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.5 U	9.5 U	1.9 U
ICS-P28-SO-10-121514	2.6 U	**19**	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	**7.8**	2.6 U	2.6 U	**8.4**	2.6 U	2.6 U	13 U	13 U	2.6 U
ICS-P28-SO-16-121514	1.1 U	**20**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	**21**	1.1 U	1.1 U	5.7 U	5.7 U	1.1 U
ICS-P28-SO-32-121514	1.6 U	**4.5 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**2.1**	1.6 U	1.6 U	**0.9 J**	1.6 U	1.6 U	8.1 U	8.1 U	1.6 U
ICS-P32-SO-16-121514	1.6 U	7.9 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	7.9 U	1.6 U
ICS-SO-DUPL3-121514	3.0 U	**17 J_o**	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	15 U	15 U	3.0 U
ICS-P32-SO-32-121514	1.6 U	**10**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.2 U	8.2 U	1.6 U
ICS-P18-SO-4-121614	2.5 U	**29 J_o**	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**3.4**	2.5 U	2.5 U	12 U	12 U	2.5 U
ICS-P18-SO-10-121614	1.5 U	**33 J_o**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**4.8**	1.5 U	1.5 U	7.4 U	7.4 U	1.5 U
ICS-P18-SO-16-121614	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**6.3**	1.4 U	1.4 U	7.1 U	7.1 U	1.4 U
ICS-P18-SO-32-121614	1.4 U	7.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	7.1 U	1.4 U
ICS-P19-SO-4-121614	1.8 U	**24 J_o**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**6.2**	1.8 U	1.8 U	9.1 U	9.1 U	1.8 U
ICS-P19-SO-10-121614	1.9 U	**5.2 J**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.5 U	9.5 U	1.9 U
ICS-P19-SO-16-121614	1.6 U	**4.3 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	**1.1 J**	1.6 U	1.6 U	**0.9 J**	1.6 U	1.6 U	7.9 J	7.9 J	1.6 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_o = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	1,1,2,2-Tetra-chloroethane 79-34-5 µg/kg, dry	Toluene 108-88-3 µg/kg, dry	Chloro-benzene 108-90-7 µg/kg, dry	Ethyl-benzene 100-41-4 µg/kg, dry	Styrene 100-42-5 µg/kg, dry	Trichloro-fluoromethane 75-69-4 µg/kg, dry	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/kg, dry	*m* - & *p* - Xylenes 179601-23-1 µg/kg, dry	*o* -Xylene 95-47-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Acrolein 107-02-8 µg/kg, dry	Bromoethane 74-96-4 µg/kg, dry	1,1-Dichloro-propene 563-58-6 µg/kg, dry
ICS-P27-SO-3-111114	1.5 U	**2.3**	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	74 U	3.0 U	1.5 U
ICS-P27-SO-11-111114	1.6 U	**1.8**	1.6 U	1.6 U	1.6 U	1.6 U	3.1 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	78 U	3.1 U	1.6 U
ICS-P27-SO-16-111114	1.2 U	**0.6 J**	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	60 U	2.4 U	1.2 U
ICS-P27-SO-32-111114	1.2 U	**1.1 J**	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	62 U	2.5 U	1.2 U
ICS-P25-SO-3-111114	1.5 U	**1.0 J**	1.5 U	1.5 U	1.5 U	1.5 U	2.9 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	73 U	2.9 U	1.5 U
ICS-P25-SO-10-111114	1.4 U	**1.1 J**	**1.2 J**	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.9 J**	72 U	2.9 U	1.4 U
ICS-P25-SO-16-111114	1.5 U	**0.9 J**	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	75 U	3.0 U	1.5 U
ICS-P17-SO-4-111214	1.4 U	**1.8**	**2.7**	**2.8**	1.4 U	1.4 U	2.8 U	**3.8**	**3.3**	**8.9**	**470**	**520**	70 U	2.8 U	1.4 U
ICS-P17-SO-10-111214	2.0 U	**19**	**18**	**13**	2.0 U	2.0 U	4.1 U	**19**	**7.8**	2.0 U	2.0 U	2.0 U	100 U	4.1 U	2.0 U
ICS-P17-SO-16-111214	1.4 U	**2.2**	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	**1.1 J**	**0.7 J**	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P20-SO-3-111214	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	76 U	3.0 U	1.5 U
ICS-P20-SO-10-111214	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	66 U	2.7 U	1.3 U
ICS-P20-SO-16-111214	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	77 U	3.1 U	1.5 U
ICS-P23-SO-3-111214	1.4 U	**1.5**	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P23-SO-10-111214	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1.4 U	0.7 U	0.7 U	0.7 U	0.7 U	**2.6**	36 U	1.4 U	0.7 U
ICS-P23-SO-16-111214	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	66 U	2.6 U	1.3 U
ICS-P13-SO-4-111314	1.4 U	**6.9**	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	**1.3 J**	**1.0 J**	1.4 U	1.4 U	1.4 U	70 U	2.8 U	1.4 U
ICS-P13-SO-10-111314	1.5 U	**3.4**	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	74 U	3.0 U	1.5 U
ICS-P13-SO-17-111314	1.5 U	**2.5**	1.5 U	1.5 U	1.5 U	1.5 U	2.9 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	73 U	2.9 U	1.5 U
ICS-P24-SO-4-111314	1.6 U	**0.8 J**	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-P24-SO-10-111314	1.5 U	**2.4**	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	**1.5 J**	1.5 U	1.5 U	1.5 U	1.5 U	76 U	3.0 U	1.5 U
ICS-P24-SO-16-111314	1.2 U	**0.8 J**	1.2 U	1.2 U	1.2 U	1.2 U	2.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	58 U	2.3 U	1.2 U
ICS-P26-SO-4-111314	1.3 U	**2.2**	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	64 U	2.6 U	1.3 U
ICS-P26-SO-10-111314	1.6 U	**1.3 J**	1.6 U	1.6 U	1.6 U	1.6 U	3.3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	82 U	3.3 U	1.6 U
ICS-P26-SO-16-111314	1.4 U	**1.0 J**	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P14-SO-4-111414	1.4 U	**1.0 J**	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	70 U	2.8 U	1.4 U
ICS-P14-SO-10-111414	1.4 U	**9.7**	1.4 U	**1.9**	1.4 U	1.4 U	2.9 U	**5.5**	**1.3 J**	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P14-SO-16-111414	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P15-SO-4-111414	1.5 U	**17**	1.5 U	**48**	1.5 U	1.5 U	3.1 U	**33**	**35**	1.5 U	1.5 U	1.5 U	76 U	3.1 U	1.5 U
ICS-P15-SO-10-111414	1.8 U	**73**	1.8 U	**50**	1.8 U	1.8 U	3.6 U	**110**	**30**	1.8 U	1.8 U	1.8 U	89 U	3.6 U	1.8 U
ICS-P15-SO-16-111414	1.6 U	**1.6**	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	81 U	3.2 U	1.6 U
ICS-P22-SO-4-111414	2.4 U	**7.6**	2.4 U	**170**	2.4 U	2.4 U	4.9 U	**57**	**19**	**1.8 J**	2.4 U	2.4 U	120 U	4.9 U	2.4 U
ICS-P22-SO-10-111414	1.3 U	**1.2 J**	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	**1.7**	1.3 U	1.3 U	1.3 U	1.3 U	65 U	2.6 U	1.3 U
ICS-P22-SO-16-111414	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	76 U	3.0 U	1.5 U
ICS-P11-SO-4-111714	1.6 U	**3.5**	1.6 U	**7.1**	1.6 U	1.6 U	3.2 U	**8.0**	**2.7**	1.6 U	1.6 U	1.6 U	81 U	3.2 U	1.6 U
ICS-P11-SO-10-111714	1.9 U	**1.1 J**	1.9 U	1.9 U	1.9 U	1.9 U	3.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	97 U	3.9 U	1.9 U
ICS-P11-SO-16-111714	1.2 U	**2.0**	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	59 U	2.4 U	1.2 U
ICS-P12-SO-4-111714	1.6 U	**3.4**	1.6 U	**7.6**	1.6 U	1.6 U	3.2 U	**31**	**3.4**	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-P12-SO-10-111714	1.8 U	**2.0**	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**8.2**	**2.1**	1.8 U	1.8 U	1.8 U	89 U	3.6 U	1.8 U
ICS-P12-SO-13-111714	1.8 U	**0.9 J**	1.8 U	1.8 U	1.8 U	1.8 U	3.5 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	88 U	3.5 U	1.8 U
ICS-P12-SO-16-111714	1.6 U	**2.0**	1.6 U	1.6 U	1.6 U	1.6 U	3.1 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.1 U	1.6 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	1,1,2,2-Tetra-chloroethane 79-34-5 µg/kg, dry	Toluene 108-88-3 µg/kg, dry	Chloro-benzene 108-90-7 µg/kg, dry	Ethyl-benzene 100-41-4 µg/kg, dry	Styrene 100-42-5 µg/kg, dry	Trichloro-fluoromethane 75-69-4 µg/kg, dry	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/kg, dry	*m* - & *p* - Xylenes 179601-23-1 µg/kg, dry	*o* -Xylene 95-47-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Acrolein 107-02-8 µg/kg, dry	Bromoethane 74-96-4 µg/kg, dry	1,1-Dichloro-propene 563-58-6 µg/kg, dry
ICS-P21-SO-7-120814	1.7 U	**3.9**	1.7 U	**1.6 J**	1.7 U	1.7 U	3.5 U	**5.4**	**2.1**	1.7 U	1.7 U	1.7 U	86 U	3.5 U	1.7 U
ICS-P21-SO-13-120814	2.2 U	**290**	2.2 U	**280**	2.2 U	2.2 U	4.5 U	**190**	**92**	**2.7**	2.2 U	2.2 U	110 U	4.5 U	2.2 U
ICS-P21-SO-16-120814	1.4 U	**2.9**	1.4 U	**0.9 J**	1.4 U	1.4 U	2.9 U	**30**	1.4 U	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P21-SO-32-120814	1.2 U	**1.3**	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	59 U	2.4 U	1.2 U
ICS-P33-SO-16-120814	1.4 U	**0.7 J**	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P33-SO-32-120814	1.3 U	**0.8 J**	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	65 U	2.6 U	1.3 U
ICS-P30-SO-7-120914	1.0 U	**390**	1.0 U	**2700**	**87**	1.0 U	2.0 U	**730**	**510**	**140**	1.0 U	**6.0**	50 U	2.0 U	1.0 U
ICS-P30-SO-13-120914	1.0 U	**4.0**	1.0 U	**2.0**	**0.7 J**	1.0 U	2.0 U	**5.3**	**2.2**	1.0 U	1.0 U	1.0 U	50 U	2.0 U	1.0 U
ICS-P30-SO-16-120914	2.8 U	**2.1 J**	2.8 U	2.8 U	2.8 U	2.8 U	5.6 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	140 U	5.6 U	2.8 U
ICS-P30-SO-32-120914	1.4 U	**0.9 J**	1.4 U	**1.1 J**	1.4 U	1.4 U	2.9 U	**3.4**	1.4 U	1.4 U	1.4 U	1.4 U	72 U	2.9 U	1.4 U
ICS-P31-SO-4-120914	1.4 U	**1.5**	1.4 U	1.4 U	1.4 U	1.4 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	68 U	2.7 U	1.4 U
ICS-P31-SO-10-120914	1.6 U	**0.9 J**	1.6 U	1.6 U	1.6 U	1.6 U	3.3 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	82 U	3.3 U	1.6 U
ICS-P31-SO-16-120914	1.7 U	**1.1 J**	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	86 U	3.4 U	1.7 U
ICS-P31-SO-32-120914	1.3 U	**0.9 J**	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	67 U	2.7 U	1.3 U
ICS-P29-SO-4-121014	0.9 U	**3.0**	0.9 U	**1.9**	0.9 U	0.9 U	1.8 U	**4.5**	**5.3**	**47**	**13**	**73**	46 U	1.8 U	0.9 U
ICS-P29-SO-10-121014	1.6 U	**1900**	**3.8**	**720**	**100**	1.6 U	3.2 U	**570**	**220**	**19**	**3.3**	**5.3**	81 U	3.2 U	1.6 U
ICS-P29-SO-16-121014	1.6 U	**110**	1.6 U	**66**	**1.3 J**	1.6 U	3.2 U	**120**	**51**	**1.8**	1.6 U	1.6 U	81 U	3.2 U	1.6 U
ICS-DUP2-121014	2.1 U	**150**	2.1 U	**96**	**2.0 J**	2.1 U	4.1 U	**170**	**76**	**3.2**	2.1 U	2.1 U	100 U	4.1 U	2.1 U
ICS-P29-SO-32-121014	1.6 U	**0.9 J**	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	80 U	3.2 U	1.6 U
ICS-P16-SO-4-121014	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	1.7 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	41 U	1.7 U	0.8 U
ICS-P16-SO-10-121014	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	100 U	4.1 U	2.0 U
ICS-P16-SO-16-121014	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	110 U	4.5 U	2.3 U
ICS-P28-SO-4-121514	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	95 U	3.8 U	1.9 U
ICS-P28-SO-10-121514	2.6 U	**84**	**25**	**67**	2.6 U	2.6 U	**1.5 J**	**90**	**41**	**45**	**64**	**200**	130 U	5.1 U	2.6 U
ICS-P28-SO-16-121514	1.1 U	**33**	**5.7**	**28**	1.1 U	1.1 U	2.3 U	**26**	**9.6**	1.1 U	1.1 U	**0.6 J**	57 U	2.3 U	1.1 U
ICS-P28-SO-32-121514	1.6 U	**1.2 J**	**1.6 J**	1.6 U	1.6 U	1.6 U	**2.5 J**	1.6 U	1.6 U	1.6 U	1.6 U	**0.9 J**	81 U	3.2 U	1.6 U
ICS-P32-SO-16-121514	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-SO-DUPL3-121514	3.0 U	**7.7**	3.0 U	3.0 U	3.0 U	3.0 U	6.1 U	**3.8**	3.0 U	3.0 U	3.0 U	3.0 U	150 U	6.1 U	3.0 U
ICS-P32-SO-32-121514	1.6 U	**1.0 J**	1.6 U	1.6 U	1.6 U	1.6 U	3.3 U	**1.2 J**	1.6 U	1.6 U	1.6 U	1.6 U	82 U	3.3 U	1.6 U
ICS-P18-SO-4-121614	2.5 U	**4.3**	2.5 U	**4.4**	2.5 U	2.5 U	4.9 U	**8.0**	**3.2**	**2.4 J**	2.5 U	2.5 U	120 U	4.9 U	2.5 U
ICS-P18-SO-10-121614	1.5 U	**65**	1.5 U	**8.7**	1.5 U	1.5 U	2.9 U	**480**	**220**	**17**	1.5 U	1.5 U	74 U	2.9 U	1.5 U
ICS-P18-SO-16-121614	1.4 U	**1.1 J**	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	**1.4 J**	**4.0**	1.4 U	1.4 U	1.4 U	71 U	2.8 U	1.4 U
ICS-P18-SO-32-121614	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	71 U	2.9 U	1.4 U
ICS-P19-SO-4-121614	1.8 U	**2.6**	1.8 U	**3.4**	1.8 U	1.8 U	3.6 U	**2.8**	**2.5**	1.8 U	1.8 U	1.8 U	91 U	3.6 U	1.8 U
ICS-P19-SO-10-121614	1.9 U	**1.1 J**	**3.1**	1.9 U	1.9 U	1.9 U	3.8 U	1.9 U	1.9 U	**3.6**	**2.5**	**6.1**	95 U	3.8 U	1.9 U
ICS-P19-SO-16-121614	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Dibromo-methane 74-95-3 µg/kg, dry	1,1,1,2-Tetra-chloroethane 630-20-6 µg/kg, dry	1,2,3-Trichloro-propane 96-18-4 µg/kg, dry	*trans* -1,4-Dichloro-2-butene 110-57-6 µg/kg, dry	1,3,5-Trimethyl-benzene 108-67-8 µg/kg, dry	1,2,4-Trimethyl-benzene 95-63-6 µg/kg, dry	Hexachlorobutadiene 87-68-3 µg/kg, dry	Ethylene dibromide * 106-93-4 µg/kg, dry	Bromochloro-methane 74-97-5 µg/kg, dry	2,2-Dichloro-propane 294-20-7 µg/kg, dry	1,3-Dichloro-propane 142-28-9 µg/kg, dry	Isopropyl-benzene 98-82-8 µg/kg, dry	n-Propyl-benzene 103-65-1 µg/kg, dry	Bromo-benzene 108-86-1 µg/kg, dry	2-Chloro-toluene 95-49-8 µg/kg, dry
ICS-P27-SO-3-111114	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	1.5 U	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P27-SO-11-111114	1.6 U	1.6 U	3.1 U	7.8 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P27-SO-16-111114	1.2 U	1.2 U	2.4 U	6.0 U	1.2 U	1.2 U	*(see M.8081B result)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P27-SO-32-111114	1.2 U	1.2 U	2.5 U	6.2 U	1.2 U	1.2 U	6.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P25-SO-3-111114	1.5 U	1.5 U	2.9 U	7.3 U	1.5 U	1.5 U	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P25-SO-10-111114	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	7.2 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P25-SO-16-111114	1.5 U	1.5 U	3.0 U	7.5 U	1.5 U	1.5 U	7.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P17-SO-4-111214	1.4 U	1.4 U	2.8 U	7.0 U	1.4 U	**5.0**	7.0 U	1.4 U	1.4 U	1.4 U	1.4 U	**110**	**95**	1.4 U	1.4 U
ICS-P17-SO-10-111214	2.0 U	2.0 U	4.1 U	10 U	2.0 U	**2.7**	10 U	2.0 U	2.0 U	2.0 U	2.0 U	**1.8 J**	2.0 U	2.0 U	2.0 U
ICS-P17-SO-16-111214	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	7.2 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P20-SO-3-111214	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	7.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P20-SO-10-111214	1.3 U	1.3 U	2.7 U	6.6 U	1.3 U	1.3 U	*(see M.8081B result)*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P20-SO-16-111214	1.5 U	1.5 U	3.1 U	7.7 U	1.5 U	1.5 U	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P23-SO-3-111214	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P23-SO-10-111214	0.7 U	0.7 U	1.4 U	3.6 U	0.7 U	0.7 U	*(see M.8081B result)*	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
ICS-P23-SO-16-111214	1.3 U	1.3 U	2.6 U	6.6 U	1.3 U	1.3 U	*(see M.8081B result)*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P13-SO-4-111314	1.4 U	1.4 U	2.8 U	7.0 U	**2.0**	**5.7**	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**1.3 J**	1.4 U	1.4 U
ICS-P13-SO-10-111314	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	**2.1**	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P13-SO-17-111314	1.5 U	1.5 U	2.9 U	7.3 U	1.5 U	**1.3 J**	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P24-SO-4-111314	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P24-SO-10-111314	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P24-SO-16-111314	1.2 U	1.2 U	2.3 U	5.8 U	1.2 U	1.2 U	*(see M.8081B result)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P26-SO-4-111314	1.3 U	1.3 U	2.6 U	6.4 U	1.3 U	1.3 U	*(see M.8081B result)*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P26-SO-10-111314	1.6 U	1.6 U	3.3 U	8.2 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P26-SO-16-111314	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-4-111414	1.4 U	1.4 U	2.8 U	7.0 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-10-111414	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P14-SO-16-111414	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P15-SO-4-111414	1.5 U	1.5 U	3.1 U	7.6 U	**4.4**	**12**	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	**1.3 J**	**1.4 J**	1.5 U	1.5 U
ICS-P15-SO-10-111414	1.8 U	1.8 U	3.6 U	8.9 U	1.8 U	1.8 U	*(see M.8081B result)*	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P15-SO-16-111414	1.6 U	1.6 U	3.2 U	8.1 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P22-SO-4-111414	2.4 U	2.4 U	4.9 U	12 U	**8.4**	**32**	*(see M.8081B result)*	2.4 U	2.4 U	2.4 U	2.4 U	**5.3**	**4.9**	2.4 U	2.4 U
ICS-P22-SO-10-111414	1.3 U	1.3 U	2.6 U	6.5 U	1.3 U	**0.8 J**	*(see M.8081B result)*	1.3 U	1.3 U	1.3 U	1.3 U	**0.8 J**	1.3 U	1.3 U	1.3 U
ICS-P22-SO-16-111414	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P11-SO-4-111714	1.6 U	1.6 U	3.2 U	8.1 U	**2.1**	**11**	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	**1.6 J**	**3.2**	1.6 U	1.6 U
ICS-P11-SO-10-111714	1.9 U	1.9 U	3.9 U	9.7 U	1.9 U	1.9 U	*(see M.8081B result)*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P11-SO-16-111714	1.2 U	1.2 U	2.4 U	5.9 U	1.2 U	1.2 U	*(see M.8081B result)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P12-SO-4-111714	1.6 U	1.6 U	3.2 U	7.9 U	**2.4**	**17**	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	**1.4 J**	**2.5**	1.6 U	1.6 U
ICS-P12-SO-10-111714	1.8 U	1.8 U	3.6 U	8.9 U	1.8 U	1.8 U	*(see M.8081B result)*	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-13-111714	1.8 U	1.8 U	3.5 U	8.8 U	1.8 U	1.8 U	*(see M.8081B result)*	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P12-SO-16-111714	1.6 U	1.6 U	3.1 U	7.9 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Dibromo-methane 74-95-3 µg/kg, dry	1,1,1,2-Tetra-chloroethane 630-20-6 µg/kg, dry	1,2,3-Trichloro-propane 96-18-4 µg/kg, dry	*trans* -1,4-Dichloro-2- butene 110-57-6 µg/kg, dry	1,3,5-Trimethyl-benzene 108-67-8 µg/kg, dry	1,2,4-Trimethyl-benzene 95-63-6 µg/kg, dry	Hexachlorobutadiene 87-68-3 µg/kg, dry	Ethylene dibromide * 106-93-4 µg/kg, dry	Bromochloro-methane 74-97-5 µg/kg, dry	2,2-Dichloro-propane 294-20-7 µg/kg, dry	1,3-Dichloro-propane 142-28-9 µg/kg, dry	Isopropyl-benzene 98-82-8 µg/kg, dry	n-Propyl-benzene 103-65-1 µg/kg, dry	Bromo-benzene 108-86-1 µg/kg, dry	2-Chloro-toluene 95-49-8 µg/kg, dry
ICS-P21-SO-7-120814	1.7 U	1.7 U	3.5 U	8.6 U	**1.7 J**	**2.7**	8.6 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.8**	**1.7 J**	1.7 U	1.7 U
ICS-P21-SO-13-120814	2.2 U	2.2 U	4.5 U	11 U	**11**	**32**	*(see M.8081B result)*	2.2 U	2.2 U	2.2 U	2.2 U	**5.2**	**3.2**	2.2 U	**2.4**
ICS-P21-SO-16-120814	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	**34**	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	**3.1**	1.4 U	1.4 U	1.4 U
ICS-P21-SO-32-120814	1.2 U	1.2 U	2.4 U	5.9 U	1.2 U	**0.9 J**	*(see M.8081B result)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-P33-SO-16-120814	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P33-SO-32-120814	1.3 U	1.3 U	2.6 U	6.5 U	1.3 U	1.3 U	*(see M.8081B result)*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P30-SO-7-120914	1.0 U	1.0 U	2.0 U	5.0 U	**250**	**1700**	*(see M.8081B result)*	1.0 U	1.0 U	1.0 U	1.0 U	**140**	**270**	1.0 U	1.0 U
ICS-P30-SO-13-120914	1.0 U	1.0 U	2.0 U	5.0 U	**1.3**	**3.5**	*(see M.8081B result)*	1.0 U	1.0 U	1.0 U	1.0 U	**0.9 J**	**0.8 J**	1.0 U	1.0 U
ICS-P30-SO-16-120914	2.8 U	2.8 U	5.6 U	14 U	2.8 U	2.8 U	*(see M.8081B result)*	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
ICS-P30-SO-32-120914	1.4 U	1.4 U	2.9 U	7.2 U	1.4 U	**2.1**	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P31-SO-4-120914	1.4 U	1.4 U	2.7 U	6.8 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P31-SO-10-120914	1.6 U	1.6 U	3.3 U	8.2 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P31-SO-16-120914	1.7 U	1.7 U	3.4 U	8.6 U	1.7 U	1.7 U	*(see M.8081B result)*	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P31-SO-32-120914	1.3 U	1.3 U	2.7 U	6.7 U	1.3 U	1.3 U	*(see M.8081B result)*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P29-SO-4-121014	0.9 U	0.9 U	1.8 U	4.6 U	0.9 U	**6.5**	4.6 U	0.9 U	0.9 U	0.9 U	0.9 U	**16**	**34**	0.9 U	0.9 U
ICS-P29-SO-10-121014	1.6 U	1.6 U	3.2 U	8.1 U	**120**	**410**	8.1 U	1.6 U	1.6 U	1.6 U	1.6 U	**13**	**31**	1.6 U	1.6 U
ICS-P29-SO-16-121014	1.6 U	1.6 U	3.2 U	8.1 U	**22**	**55**	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	**5.5**	**7.3**	1.6 U	1.6 U
ICS-DUP2-121014	2.1 U	2.1 U	4.1 U	10 U	**37**	**95**	*(see M.8081B result)*	2.1 U	2.1 U	2.1 U	2.1 U	**8.1**	**12**	2.1 U	2.1 U
ICS-P29-SO-32-121014	1.6 U	1.6 U	3.2 U	8.0 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P16-SO-4-121014	0.8 U	0.8 U	1.7 U	4.1 U	0.8 U	0.8 U	4.1 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
ICS-P16-SO-10-121014	2.0 U	2.0 U	4.1 U	10 U	2.0 U	2.0 U	*(see M.8081B result)*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P16-SO-16-121014	2.3 U	2.3 U	4.5 U	11 U	2.3 U	2.3 U	*(see M.8081B result)*	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
ICS-P28-SO-4-121514	1.9 U	1.9 U	3.8 U	9.5 U	1.9 U	1.9 U	*(see M.8081B result)*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P28-SO-10-121514	2.6 U	2.6 U	5.1 U	13 U	**17**	**140**	*(see M.8081B result)*	2.6 U	2.6 U	2.6 U	2.6 U	**17**	**28**	2.6 U	2.6 U
ICS-P28-SO-16-121514	1.1 U	1.1 U	2.3 U	5.7 U	1.1 U	**1.7**	*(see M.8081B result)*	1.1 U	1.1 U	1.1 U	1.1 U	**0.6 J**	1.1 U	1.1 U	1.1 U
ICS-P28-SO-32-121514	1.6 U	1.6 U	3.2 U	8.1 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P32-SO-16-121514	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-SO-DUPL3-121514	3.0 U	3.0 U	6.1 U	15 U	3.0 U	3.0 U	*(see M.8081B result)*	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
ICS-P32-SO-32-121514	1.6 U	1.6 U	3.3 U	8.2 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P18-SO-4-121614	2.5 U	2.5 U	4.9 U	12 U	**5.5**	**52**	*(see M.8081B result)*	2.5 U	2.5 U	2.5 U	2.5 U	**2.4 J**	**5.6**	2.5 U	2.5 U
ICS-P18-SO-10-121614	1.5 U	1.5 U	2.9 U	7.4 U	**75**	**440 J_M**	*(see M.8081B result)*	1.5 U	1.5 U	1.5 U	1.5 U	**14**	**24**	1.5 U	1.5 U
ICS-P18-SO-16-121614	1.4 U	1.4 U	2.8 U	7.1 U	1.4 U	**8.3**	7.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P18-SO-32-121614	1.4 U	1.4 U	2.9 U	7.1 U	1.4 U	1.4 U	*(see M.8081B result)*	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ICS-P19-SO-4-121614	1.8 U	1.8 U	3.6 U	9.1 U	1.8 U	**3.0**	*(see M.8081B result)*	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P19-SO-10-121614	1.9 U	1.9 U	3.8 U	9.5 U	1.9 U	1.9 U	9.5 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ICS-P19-SO-16-121614	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	*(see M.8081B result)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U

* aka 1,2-Dibromoethane

J = estimate associated with value less than the verifiable lower quantitation limit.
J_M = estimate associated with manual evaluation; see narrative.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	4-Chloro-toluene 106-43-4 µg/kg, dry	*tert* -Butyl-benzene 98-06-6 µg/kg, dry	*sec* -Butyl-benzene 135-98-8 µg/kg, dry	4-Isopropyl-toluene 99-87-6 µg/kg, dry	n-Butyl-benzene 104-51-8 µg/kg, dry	1,2,3-Trichloro-benzene 87-61-6 µg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry	N-Nitroso-di-n-propylamine 621-64-7 µg/kg, dry
ICS-P27-SO-3-111114	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	**16 J**	19 U	4.8 U	**2.7 J**	19 U	4.8 U	**2.8 J**	19 U	19 U
ICS-P27-SO-11-111114	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.8 U	**24**	19 U	4.8 U	4.8 U	**22**	4.8 U	**3.4 J**	19 U	19 U
ICS-P27-SO-16-111114	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P27-SO-32-111114	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.2 U	**9.3 J**	19 U	4.6 U	4.6 U	19 U	4.6 U	4.6 U	19 U	19 U
ICS-P25-SO-3-111114	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.3 U	**13 J**	19 U	**13**	**45**	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P25-SO-10-111114	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	19 U	19 U	**20**	**44**	19 U	**3.7 J**	4.7 U	19 U	19 U
ICS-P25-SO-16-111114	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.5 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U	19 U
ICS-P17-SO-4-111214	1.4 U	1.4 U	**83 J**	**48 J**	**130**	**2300**	**27**	19 U	**240**	**370**	19 U	**18**	4.7 U	19 U	19 U
ICS-P17-SO-10-111214	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	**110**	19 U	**110**	**320**	19 U	**14**	**4.5 J**	**48**	19 U
ICS-P17-SO-16-111214	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	**10 J**	19 U	**2.4 J**	**3.2 J**	19 U	4.7 U	4.7 U	19 U	19 U
ICS-P20-SO-3-111214	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.6 U	19 U	19 U	4.8 U	**2.6 J**	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P20-SO-10-111214	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U	**9.7 J**	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P20-SO-16-111214	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	**10 J**	19 U	4.7 U	4.7 U	19 U	4.7 U	**2.8 J**	19 U	19 U
ICS-P23-SO-3-111214	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	19 U	19 U	4.9 U	4.9 U	19 U	4.9 U	4.9 U	19 U	19 U
ICS-P23-SO-10-111214	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	3.6 U	**13 J**	19 U	4.8 U	**110**	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P23-SO-16-111214	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U	**20**	20 U	5.0 U	5.0 U	**13 J**	5.0 U	5.0 U	20 U	20 U
ICS-P13-SO-4-111314	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	**620**	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U
ICS-P13-SO-10-111314	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	**9.8 J**	20 U	4.9 U	4.9 U	20 U	4.9 U	4.9 U	20 U	20 U
ICS-P13-SO-17-111314	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.3 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P24-SO-4-111314	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	18 U	18 U	4.6 U	4.6 U	18 U	4.6 U	4.6 U	18 U	18 U
ICS-P24-SO-10-111314	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.6 U	**19**	19 U	4.8 U	4.8 U	19 U	**19**	**4.0 J**	**38**	19 U
ICS-P24-SO-16-111314	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.8 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P26-SO-4-111314	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.4 U	**24**	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U	19 U
ICS-P26-SO-10-111314	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.2 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U
ICS-P26-SO-16-111314	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	20 U	20 U	4.9 U	4.9 U	**15 J**	4.9 U	4.9 U	20 U	20 U
ICS-P14-SO-4-111414	1.4 U	1.4 U	**8.1**	1.4 U	**2.0**	7.0 U	**25 J_o**	19 U	**7.5**	**11**	19 U	**16**	**29**	**62**	19 U
ICS-P14-SO-10-111414	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	**28 J_o**	19 U	**4.4 J**	**5.1**	19 U	**5.0**	**8.1**	**170**	19 U
ICS-P14-SO-16-111414	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U	**5.1**	19 U	19 U
ICS-P15-SO-4-111414	1.5 U	1.5 U	**0.9 J**	**2.1**	1.5 U	7.6 U	**21 J_o**	20 U	5.0 U	5.0 U	20 U	5.0 U	**37**	**46**	20 U
ICS-P15-SO-10-111414	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.9 U	**1200**	20 U	4.9 U	**6.3**	20 U	**3.2 J**	**2100**	**4300**	20 U
ICS-P15-SO-16-111414	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.1 U	**14 J**	19 U	4.8 U	4.8 U	19 U	4.8 U	**11**	**30**	19 U
ICS-P22-SO-4-111414	2.4 U	2.4 U	**3.3**	**3.7**	**2.2 J**	12 U	**10 J**	19 U	4.7 U	4.7 U	19 U	**8.5**	**3.3 J**	**15 J**	19 U
ICS-P22-SO-10-111414	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.5 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P22-SO-16-111414	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.6 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P11-SO-4-111714	1.6 U	1.6 U	**1.0 J**	**0.9 J**	**0.8 J**	8.1 U	19 U	19 U	**6.2**	**7.4**	19 U	**8.1**	**6.0**	19 U	19 U
ICS-P11-SO-10-111714	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.7 U	**180**	19 U	**4.2 J**	**4.2 J**	19 U	**4.2 J**	**16**	**33**	19 U
ICS-P11-SO-16-111714	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.9 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U
ICS-P12-SO-4-111714	1.6 U	1.6 U	**0.9 J**	**2.3**	1.6 U	7.9 U	20 U	20 U	4.9 U	4.9 U	20 U	**2.9 J**	4.9 U	20 U	20 U
ICS-P12-SO-10-111714	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.9 U	**23**	19 U	**2.9 J**	**3.0 J**	19 U	**3.3 J**	**4.1 J**	19 U	19 U
ICS-P12-SO-13-111714	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.8 U	20 U	20 U	4.9 U	4.9 U	20 U	4.9 U	4.9 U	20 U	20 U
ICS-P12-SO-16-111714	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	19 U	19 U	4.7 U	4.7 U	19 U	**2.3 J**	**3.2 J**	19 U	19 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	4-Chloro-toluene 106-43-4 µg/kg, dry	*tert* -Butyl-benzene 98-06-6 µg/kg, dry	*sec* -Butyl-benzene 135-98-8 µg/kg, dry	4-Isopropyl-toluene 99-87-6 µg/kg, dry	n-Butyl-benzene 104-51-8 µg/kg, dry	1,2,3-Trichloro-benzene 87-61-6 µg/kg, dry	Phenol 108-95-2 µg/kg, dry	2-Chloro-phenol 95-57-8 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry	Benzyl alcohol 100-51-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	2-Methyl-phenol 95-48-7 µg/kg, dry	4-Methyl-phenol 106-44-5 µg/kg, dry	N-Nitroso-di-n-propylamine 621-64-7 µg/kg, dry
ICS-P21-SO-7-120814	1.7 U	**1.1 J**	**2.6**	1.7 U	1.7 U	8.6 U	**150 J_B**	37 U	**9.4**	**8.2**	18 U	**29**	**10 J_O**	**70**	37 U
ICS-P21-SO-13-120814	2.2 U	2.2 U	2.2 U	**10**	2.2 U	11 U	**210 J_B**	34 U	**6.4 J**	**6.9 J**	34 U	**22**	**38**	**160**	34 U
ICS-P21-SO-16-120814	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	**88 J_B**	19 U	4.8 U	4.8 U	19 U	**3.7 J**	4.8 U	**18 J**	19 U
ICS-P21-SO-32-120814	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5.9 U	**83 J_B**	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U	19 U
ICS-P33-SO-16-120814	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	**88 J_B**	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P33-SO-32-120814	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.5 U	**86 J_B**	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P30-SO-7-120914	1.0 U	1.0 U	1.0 U	**100**	**150**	5.0 U	**120 J_B**	44 U	**5.3 J**	**7.9**	22 U	**31**	**8.8 J_Q**	44 U	44 U
ICS-P30-SO-13-120914	1.0 U	1.0 U	**1.3**	**0.7 J**	1.0 U	5.0 U	**110 J_B**	20 U	**4.8 J**	**4.4 J**	20 U	**14**	**7.0 J_Q**	**28**	20 U
ICS-P30-SO-16-120914	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	14 U	**61 J_B**	20 U	4.9 U	4.9 U	20 U	4.9 U	**4.3 J**	20 U	20 U
ICS-P30-SO-32-120914	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.2 U	**71 J_B**	18 U	4.6 U	4.6 U	18 U	4.6 U	4.6 U	18 U	18 U
ICS-P31-SO-4-120914	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	6.8 U	**59 J_B**	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U	19 U
ICS-P31-SO-10-120914	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.2 U	**51 J_B**	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P31-SO-16-120914	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	**69 J_B**	20 U	4.9 U	4.9 U	**39**	4.9 U	4.9 U	20 U	20 U
ICS-P31-SO-32-120914	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	**77 J_B**	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P29-SO-4-121014	0.9 U	0.9 U	**21**	**27**	0.9 U	4.6 U	**1600 J_B**	230 U	**100**	**520**	230 U	**360**	**150**	**200 J**	230 U
ICS-P29-SO-10-121014	1.6 U	1.6 U	**10**	**17**	**16**	**12**	**140 J_B**	19 U	**6.0**	**7.6**	19 U	**20**	**25**	**44**	19 U
ICS-P29-SO-16-121014	1.6 U	1.6 U	**4.3**	**8.1**	**7.3**	8.1 U	**110 J_B**	19 U	4.7 U	4.7 U	19 U	**5.6**	**12**	**29**	19 U
ICS-DUP2-121014	2.1 U	2.1 U	**7.5**	**15**	**13**	10 U	**98 J_B**	19 U	4.7 U	4.7 U	19 U	**5.3**	**9.9**	**25**	19 U
ICS-P29-SO-32-121014	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.0 U	**100 J_B**	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U
ICS-P16-SO-4-121014	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	4.1 U	**120 J_B**	20 U	4.9 U	**70**	20 U	4.9 U	4.9 U	20 U	20 U
ICS-P16-SO-10-121014	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	**85 J_B**	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U
ICS-P16-SO-16-121014	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	11 U	**94 J_B**	20 U	4.9 U	4.9 U	**15 J**	4.9 U	4.9 U	20 U	20 U
ICS-P28-SO-4-121514	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.5 U	**12 J**	20 U	**34**	**97**	20 U	**23**	**2.7 J**	20 U	20 U
ICS-P28-SO-10-121514	2.6 U	2.6 U	**15**	**27**	**19**	13 U	**390**	20 U	**6.7**	**22**	20 U	4.9 U	**14**	**72**	20 U
ICS-P28-SO-16-121514	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.7 U	**13 J**	18 U	4.6 U	4.6 U	18 U	4.6 U	4.6 U	18 U	18 U
ICS-P28-SO-32-121514	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.1 U	**9.3 J**	19 U	4.6 U	4.6 U	19 U	4.6 U	4.6 U	19 U	19 U
ICS-P32-SO-16-121514	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	**8.6 J**	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-SO-DUPL3-121514	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	15 U	**10 J**	18 U	4.6 U	4.6 U	18 U	4.6 U	4.6 U	18 U	18 U
ICS-P32-SO-32-121514	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	8.2 U	**8.7 J**	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U	19 U
ICS-P18-SO-4-121614	2.5 U	2.5 U	**6.4**	**4.0**	**8.8**	12 U	200 U	200 U	4.9 U	**3.6 J**	20 U	**21**	**4.8 J**	200 U	200 U
ICS-P18-SO-10-121614	1.5 U	1.5 U	**17**	**29**	**23**	7.4 U	**46**	39 U	4.8 U	4.8 U	19 U	**74**	**10**	**100**	39 U
ICS-P18-SO-16-121614	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	**110**	84 U	**19 J**	**32**	84 U	**110**	21 U	**84**	84 U
ICS-P18-SO-32-121614	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.1 U	**15 J**	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U	19 U
ICS-P19-SO-4-121614	1.8 U	1.8 U	1.8 U	**1.1 J**	1.8 U	9.1 U	**22**	22 U	5.4 U	**2.7 J**	22 U	**3.8 J**	5.4 U	**16 J**	22 U
ICS-P19-SO-10-121614	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.5 U	**20**	19 U	**3.6 J**	**9.1**	19 U	**5.5**	4.7 U	19 U	19 U
ICS-P19-SO-16-121614	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	**20**	20 U	**3.2 J**	**8.9**	20 U	4.9 U	4.9 U	20 U	20 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value may be biased high due to contribution from laboratory background or method blank.
J_O = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,6-Trichloro-phenol 88-06-2 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry
ICS-P27-SO-3-111114	19 U	19 U	19 U	24 U	**130 J**	97 U	**2.6 J**	**33**	97 U	**14 J**	97 U	97 U	19 U	19 U	19 U
ICS-P27-SO-11-111114	19 U	19 U	19 U	24 U	**170 J**	96 U	**2.6 J**	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P27-SO-16-111114	19 U	19 U	19 U	24 U	190 U	95 U	**3.8 J**	19 U	95 U	19 U	95 U	95 U	19 U	19 U	19 U
ICS-P27-SO-32-111114	19 U	19 U	19 U	23 U	190 U	93 U	**5.2**	19 U	93 U	19 U	93 U	93 U	19 U	19 U	19 U
ICS-P25-SO-3-111114	19 U	19 U	19 U	24 U	**59 J**	95 U	**25**	**26**	95 U	**13 J**	95 U	95 U	19 U	19 U	**19**
ICS-P25-SO-10-111114	19 U	19 U	19 U	23 U	190 U	93 U	**30**	19 U	93 U	19 U	93 U	93 U	19 U	19 U	19 U
ICS-P25-SO-16-111114	19 U	19 U	19 U	23 U	190 U	94 U	**38**	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P17-SO-4-111214	19 U	19 U	19 U	23 U	190 U	94 U	**20,000**	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P17-SO-10-111214	19 U	19 U	19 U	**970**	**350**	96 U	**73**	**24**	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P17-SO-16-111214	19 U	19 U	19 U	24 U	190 U	94 U	**39**	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P20-SO-3-111214	19 U	19 U	19 U	24 U	190 U	97 U	**36**	**14 J**	97 U	**22**	97 U	97 U	19 U	19 U	19 U
ICS-P20-SO-10-111214	19 U	19 U	19 U	24 U	190 U	97 U	**19**	19 U	97 U	19 U	97 U	97 U	19 U	19 U	19 U
ICS-P20-SO-16-111214	19 U	19 U	19 U	24 U	**65 J**	94 U	**16**	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P23-SO-3-111214	19 U	19 U	19 U	24 U	190 U	97 U	**13**	19 U	97 U	19 U	97 U	97 U	19 U	19 U	19 U
ICS-P23-SO-10-111214	19 U	19 U	19 U	**13 J**	190 U	97 U	**12**	19 U	97 U	19 U	97 U	97 U	19 U	19 U	19 U
ICS-P23-SO-16-111214	20 U	20 U	20 U	25 U	**76 J**	99 U	**11**	20 U	99 U	20 U	99 U	99 U	20 U	20 U	20 U
ICS-P13-SO-4-111314	20 U	20 U	**96**	25 U	**120 J**	99 U	5.0 U	**43**	99 U	**30**	99 U	99 U	20 U	20 U	20 U
ICS-P13-SO-10-111314	20 U	20 U	20 U	25 U	200 U	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U	20 U	20 U
ICS-P13-SO-17-111314	19 U	19 U	19 U	24 U	190 U	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P24-SO-4-111314	18 U	18 U	18 U	23 U	180 U	92 U	4.6 U	**54**	92 U	**18**	92 U	92 U	18 U	18 U	18 U
ICS-P24-SO-10-111314	19 U	19 U	19 U	**260**	**68 J**	97 U	**7.0**	**920**	97 U	**130**	97 U	97 U	19 U	19 U	19 U
ICS-P24-SO-16-111314	19 U	19 U	19 U	24 U	190 U	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P26-SO-4-111314	19 U	19 U	19 U	24 U	**120 J**	94 U	**4.8**	**24**	94 U	**38**	94 U	94 U	19 U	19 U	19 U
ICS-P26-SO-10-111314	20 U	20 U	20 U	25 U	200 U	100 U	5.0 U	20 U	100 U	20 U	100 U	100 U	20 U	20 U	20 U
ICS-P26-SO-16-111314	20 U	20 U	20 U	24 U	200 U	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U	20 U	20 U
ICS-P14-SO-4-111414	19 U	19 U	19 U	**26**	**92 J**	95 U	**12**	**57**	**29 J**	**32**	95 U	95 U	19 U	**8.6 J**	**12 J**
ICS-P14-SO-10-111414	19 U	19 U	**10 J**	**24**	**120 J**	96 U	**5.6**	**16 J**	96 U	**14 J**	96 U	96 U	19 U	19 U	19 U
ICS-P14-SO-16-111414	19 U	19 U	19 U	24 U	190 U	94 U	**3.1 J**	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P15-SO-4-111414	20 U	20 U	20 U	**44**	200 U	100 U	5.0 U	**30**	100 U	**40**	100 U	100 U	20 U	20 U	20 U
ICS-P15-SO-10-111414	20 U	20 U	20 U	**3300 J_O**	**1200**	**49 J**	4.9 U	**160**	99 U	20 U	99 U	99 U	20 U	20 U	20 U
ICS-P15-SO-16-111414	19 U	19 U	19 U	**17 J**	190 U	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P22-SO-4-111414	19 U	19 U	19 U	**9.7 J**	190 U	94 U	**3.5 J**	**610**	94 U	**60**	94 U	94 U	19 U	19 U	19 U
ICS-P22-SO-10-111414	19 U	19 U	19 U	**26 J**	**80 J**	96 U	4.8 U	**19**	96 U	19 U	96 U	96 U	19 U	**27**	19 U
ICS-P22-SO-16-111414	19 U	19 U	19 U	24 U	**82 J**	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P11-SO-4-111714	19 U	19 U	19 U	**12 J**	190 U	94 U	**7.4**	**22**	94 U	**35**	94 U	94 U	19 U	19 U	19 U
ICS-P11-SO-10-111714	19 U	19 U	19 U	**20 J**	**1400**	96 U	**6.4**	**19**	96 U	**11 J**	96 U	96 U	19 U	19 U	19 U
ICS-P11-SO-16-111714	20 U	20 U	20 U	25 U	200 U	99 U	5.0 U	20 U	99 U	20 U	99 U	99 U	20 U	20 U	20 U
ICS-P12-SO-4-111714	20 U	20 U	20 U	24 U	200 U	98 U	4.9 U	**17 J**	98 U	**11 J**	98 U	98 U	20 U	20 U	20 U
ICS-P12-SO-10-111714	19 U	19 U	19 U	**9.7 J**	**160 J**	94 U	**3.8 J**	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P12-SO-13-111714	20 U	20 U	20 U	24 U	**60 J**	97 U	4.9 U	20 U	97 U	20 U	97 U	97 U	20 U	20 U	20 U
ICS-P12-SO-16-111714	19 U	19 U	19 U	23 U	**88 J**	93 U	**2.9 J**	19 U	93 U	19 U	93 U	93 U	19 U	19 U	19 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Hexachloro-ethane 67-72-1 µg/kg, dry	Nitrobenzene 98-95-3 µg/kg, dry	Isophorone 78-59-1 µg/kg, dry	2,4-Dimethyl-phenol 105-67-9 µg/kg, dry	Benzoic acid 65-85-0 µg/kg, dry	2,4-Dichloro-phenol 120-83-2 µg/kg, dry	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	4-Chloro-3-methylphenol 59-50-7 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	2,4,6-Trichloro-phenol 88-06-2 µg/kg, dry	2,4,5-Trichloro-phenol 95-95-4 µg/kg, dry	2-Chloro-naphthalene 91-58-7 µg/kg, dry	Dimethyl-phthalate 131-11-3 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry
ICS-P21-SO-7-120814	37 U	37 U	37 U	**31**	370 U	180 U	**120**	**1900**	180 U	**1400**	180 U	180 U	37 U	37 U	37 U
ICS-P21-SO-13-120814	34 U	34 U	34 U	**5400 J_O**	**230 J**	170 U	**22**	**260**	**890 J_O**	**150**	170 U	170 U	**110**	34 U	34 U
ICS-P21-SO-16-120814	19 U	19 U	19 U	**94**	190 U	96 U	4.8 U	**15 J**	96 U	**11 J**	96 U	96 U	19 U	19 U	19 U
ICS-P21-SO-32-120814	19 U	19 U	19 U	23 U	190 U	93 U	4.7 U	**11 J**	93 U	**11 J**	93 U	93 U	19 U	19 U	19 U
ICS-P33-SO-16-120814	19 U	19 U	19 U	24 U	**74 J**	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P33-SO-32-120814	19 U	19 U	19 U	**9.8 J**	190 U	95 U	4.8 U	19 U	95 U	19 U	95 U	95 U	19 U	19 U	19 U
ICS-P30-SO-7-120914	44 U	44 U	44 U	**22 J**	440 U	220 U	**36**	**600**	220 U	**510**	220 U	220 U	44 U	44 U	**31 J**
ICS-P30-SO-13-120914	20 U	20 U	20 U	**20 J**	200 U	100 U	**41**	**370**	100 U	**200**	100 U	100 U	20 U	**19 J**	**31**
ICS-P30-SO-16-120914	20 U	20 U	20 U	**12 J**	200 U	98 U	4.9 U	**21**	98 U	**26**	98 U	98 U	20 U	20 U	20 U
ICS-P30-SO-32-120914	18 U	18 U	18 U	23 U	180 U	92 U	4.6 U	18 U	92 U	18 U	92 U	92 U	18 U	18 U	18 U
ICS-P31-SO-4-120914	19 U	19 U	19 U	23 U	**62 J**	94 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P31-SO-10-120914	19 U	19 U	19 U	24 U	**67 J**	97 U	4.8 U	19 U	97 U	19 U	97 U	97 U	19 U	19 U	19 U
ICS-P31-SO-16-120914	20 U	20 U	20 U	24 U	**120 J**	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U	20 U	20 U
ICS-P31-SO-32-120914	19 U	19 U	19 U	24 U	190 U	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P29-SO-4-121014	230 U	230 U	230 U	290 U	2300 U	1200 U	**270**	**350**	1200 U	**2200**	1200 U	1200 U	230 U	230 U	230 U
ICS-P29-SO-10-121014	19 U	19 U	19 U	**32**	190 U	93 U	**210**	**220**	93 U	**2700**	93 U	93 U	19 U	19 U	19 U
ICS-P29-SO-16-121014	19 U	19 U	19 U	**27**	190 U	94 U	**3.6 J**	**530**	94 U	**410**	94 U	94 U	19 U	19 U	19 U
ICS-DUP2-121014	19 U	19 U	19 U	**22 J**	190 U	95 U	**3.5 J**	**480**	95 U	**380**	95 U	95 U	19 U	19 U	19 U
ICS-P29-SO-32-121014	20 U	20 U	20 U	25 U	200 U	99 U	5.0 U	20 U	99 U	20 U	99 U	99 U	20 U	20 U	20 U
ICS-P16-SO-4-121014	20 U	20 U	20 U	24 U	200 U	98 U	4.9 U	**13 J**	98 U	**13 J**	98 U	98 U	20 U	20 U	20 U
ICS-P16-SO-10-121014	20 U	20 U	20 U	25 U	**65 J**	99 U	5.0 U	20 U	99 U	20 U	99 U	99 U	20 U	20 U	20 U
ICS-P16-SO-16-121014	20 U	20 U	20 U	24 U	**67 J**	98 U	4.9 U	20 U	98 U	20 U	98 U	98 U	20 U	20 U	20 U
ICS-P28-SO-4-121514	20 U	20 U	20 U	**27 J**	**78 J**	98 U	**5.4**	**230**	98 U	**660**	98 U	98 U	20 U	20 U	20 U
ICS-P28-SO-10-121514	20 U	20 U	20 U	**200**	200 U	98 U	4.9 U	**28**	98 U	**68**	98 U	98 U	20 U	20 U	20 U
ICS-P28-SO-16-121514	18 U	18 U	18 U	23 U	180 U	92 U	4.6 U	18 U	92 U	18 U	92 U	92 U	18 U	18 U	18 U
ICS-P28-SO-32-121514	19 U	19 U	19 U	23 U	190 U	93 U	4.6 U	19 U	93 U	19 U	93 U	93 U	19 U	19 U	19 U
ICS-P32-SO-16-121514	19 U	19 U	19 U	24 U	190 U	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-SO-DUPL3-121514	18 U	18 U	18 U	23 U	180 U	93 U	4.6 U	18 U	93 U	18 U	93 U	93 U	18 U	18 U	18 U
ICS-P32-SO-32-121514	19 U	19 U	19 U	24 U	190 U	96 U	4.8 U	19 U	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P18-SO-4-121614	200 U	200 U	200 U	**21 J**	2000 U	980 U	**8.8**	**2200**	980 U	**2800**	980 U	980 U	200 U	200 U	**98 J**
ICS-P18-SO-10-121614	39 U	39 U	39 U	**280**	390 U	190 U	**5.6**	**1200**	190 U	**2000**	190 U	190 U	39 U	39 U	39 U
ICS-P18-SO-16-121614	84 U	84 U	84 U	**660**	840 U	420 U	**47**	**880**	420 U	**920**	420 U	420 U	84 U	84 U	84 U
ICS-P18-SO-32-121614	19 U	19 U	19 U	24 U	190 U	94 U	4.7 U	19 U	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P19-SO-4-121614	22 U	22 U	22 U	27 U	220 U	110 U	**7.6**	**260**	110 U	**110**	110 U	110 U	22 U	22 U	22 U
ICS-P19-SO-10-121614	19 U	19 U	19 U	**28 J**	190 U	95 U	**3.5 J**	19 U	95 U	**19**	95 U	95 U	19 U	19 U	19 U
ICS-P19-SO-16-121614	20 U	20 U	20 U	**16 J**	**62 J**	97 U	4.9 U	20 U	97 U	**12 J**	97 U	97 U	20 U	20 U	20 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_O = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry	Pyrene 129-00-0 µg/kg, dry
ICS-P27-SO-3-111114	19 U	**16 J**	97 U	97 U	19 U	19 U	19 U	4.8 U	**72**	**77**	**11 J**	19 U	**25**	**61**	**56**
ICS-P27-SO-11-111114	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	**12 J**	19 U	19 U	19 U	19 U	19 U
ICS-P27-SO-16-111114	19 U	19 U	95 U	95 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P27-SO-32-111114	19 U	19 U	93 U	93 U	19 U	19 U	19 U	4.6 U	19 U	**14 J**	19 U	19 U	19 U	19 U	19 U
ICS-P25-SO-3-111114	19 U	**10 J**	95 U	95 U	19 U	19 U	19 U	**3.0 J**	19 U	**120**	**12 J**	**12 J**	19 U	**170**	**160**
ICS-P25-SO-10-111114	19 U	19 U	93 U	93 U	19 U	19 U	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P25-SO-16-111114	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P17-SO-4-111214	**100**	19 U	94 U	94 U	19 U	19 U	**450**	4.7 U	19 U	**480**	19 U	**39**	19 U	**35**	**52**
ICS-P17-SO-10-111214	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P17-SO-16-111214	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P20-SO-3-111214	19 U	19 U	97 U	97 U	19 U	19 U	19 U	4.8 U	19 U	**25**	19 U	19 U	19 U	19 U	19 U
ICS-P20-SO-10-111214	19 U	19 U	97 U	97 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P20-SO-16-111214	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U	**11 J**	**9.4 J**	19 U	19 U	19 U	19 U	19 U
ICS-P23-SO-3-111214	19 U	19 U	97 U	97 U	**28**	19 U	19 U	4.9 U	19 U	19 U	19 U	19 U	19 U	**68**	**56**
ICS-P23-SO-10-111214	19 U	19 U	97 U	97 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P23-SO-16-111214	20 U	20 U	99 U	99 U	**34**	20 U	20 U	5.0 U	20 U	**11 J**	20 U	20 U	20 U	20 U	20 U
ICS-P13-SO-4-111314	**20**	**220**	99 U	99 U	**24 J_B**	20 U	**18 J**	5.0 U	**220 J_O**	**70**	20 U	**12 J**	**180**	**81**	**100**
ICS-P13-SO-10-111314	20 U	20 U	98 U	98 U	**20 J_B**	20 U	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P13-SO-17-111314	19 U	19 U	96 U	96 U	**21 J_B**	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P24-SO-4-111314	18 U	18 U	92 U	18 U	**21 J_B**	18 U	18 U	4.6 U	18 U	**37**	18 U	18 U	**13 J**	**18**	**17 J**
ICS-P24-SO-10-111314	**40**	**29**	97 U	97 U	**32 J_B**	19 U	**37**	**51**	**34 J_O**	**92**	19 U	**24**	19 U	**130**	**180**
ICS-P24-SO-16-111314	19 U	19 U	96 U	96 U	**41 J_B**	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P26-SO-4-111314	19 U	**9.4 J**	94 U	94 U	**38 J_B**	19 U	**17 J**	**11**	19 U	**110**	19 U	**16 J**	**49**	**89**	**110**
ICS-P26-SO-10-111314	20 U	20 U	100 U	100 U	**28 J_B**	20 U	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P26-SO-16-111314	20 U	20 U	98 U	98 U	**26 J_B**	20 U	20 U	4.9 U	20 U	**14 J**	20 U	20 U	20 U	20 U	20 U
ICS-P14-SO-4-111414	**14 J**	**17 J**	95 U	95 U	19 U	19 U	**24**	**14**	**23 J_O**	**65**	**22**	**17 J**	**11 J**	**65**	**57**
ICS-P14-SO-10-111414	**16 J**	**15 J**	96 U	96 U	19 U	19 U	**24**	**3.0 J**	**18 J**	**270**	**32**	**38**	**9.6 J**	**360**	**250**
ICS-P14-SO-16-111414	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P15-SO-4-111414	20 U	20 U	100 U	100 U	**21 J_O**	20 U	**10 J**	5.0 U	**29 J_O**	**45**	20 U	**13 J**	20 U	**30**	**36**
ICS-P15-SO-10-111414	20 U	**40**	99 U	99 U	20 U	20 U	20 U	4.9 U	**11 J**	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P15-SO-16-111414	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P22-SO-4-111414	**57**	**46**	94 U	94 U	19 U	19 U	**64**	4.7 U	19 U	**140**	**54**	**23**	**12 J**	**38**	**33**
ICS-P22-SO-10-111414	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	**15 J**	19 U	19 U	19 U	**12 J**	**14 J**
ICS-P22-SO-16-111414	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P11-SO-4-111714	**13 J**	**11 J**	94 U	94 U	**20**	19 U	**13 J**	**5.5**	**13 J**	**18 J**	**10 J**	19 U	19 U	**16 J**	**16 J**
ICS-P11-SO-10-111714	19 U	19 U	96 U	96 U	**19**	19 U	19 U	4.8 U	**17 J**	**22**	19 U	**9.6 J**	19 U	**12 J**	**12 J**
ICS-P11-SO-16-111714	20 U	20 U	99 U	99 U	20 U	20 U	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P12-SO-4-111714	20 U	20 U	98 U	98 U	20 U	20 U	20 U	**3.6 J**	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P12-SO-10-111714	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U	**11 J**	**11 J**	19 U	19 U	19 U	19 U	19 U
ICS-P12-SO-13-111714	20 U	20 U	97 U	97 U	20 U	20 U	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P12-SO-16-111714	19 U	19 U	93 U	93 U	19 U	19 U	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry	2,6-Dinitro-toluene 606-20-2 µg/kg, dry	2,4-Dinitro-toluene 121-14-2 µg/kg, dry	Diethyl-phthalate 84-66-2 µg/kg, dry	4-Chlorophenyl-phenylether 7005-72-3 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	N-Nitrosodi-phenylamine 86-30-6 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry	Carbazole 86-74-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Di-n-butyl-phthalate 84-74-2 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry	Pyrene 129-00-0 µg/kg, dry
ICS-P21-SO-7-120814	**690**	**360**	180 U	180 U	37 U	37 U	**620**	**53**	**150**	**2100**	**140**	**400**	37 U	**1200**	**1000**
ICS-P21-SO-13-120814	**60**	**29 J**	170 U	170 U	34 U	34 U	**64**	**70**	**54**	**230**	**33 J**	**74**	34 U	**310**	**330**
ICS-P21-SO-16-120814	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	**14 J**	19 U	19 U	19 U	**11 J**	**9.6 J**
ICS-P21-SO-32-120814	19 U	19 U	93 U	93 U	19 U	19 U	19 U	4.7 U	19 U	**11 J**	19 U	19 U	19 U	19 U	19 U
ICS-P33-SO-16-120814	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	**9.6 J**	19 U	19 U	19 U	19 U	19 U
ICS-P33-SO-32-120814	19 U	19 U	95 U	95 U	19 U	19 U	19 U	4.8 U	19 U	**8.6 J**	19 U	19 U	19 U	19 U	19 U
ICS-P30-SO-7-120914	44 U	44 U	220 U	220 U	44 U	44 U	**140**	**140**	**50**	**1000**	**150**	**230**	**280**	**1400**	**1900**
ICS-P30-SO-13-120914	**65**	**55**	100 U	100 U	20 U	20 U	**76**	**160**	**36**	**490**	**37**	**120**	**270**	**690**	**790**
ICS-P30-SO-16-120914	20 U	20 U	98 U	98 U	20 U	20 U	**8.8 J**	4.9 U	20 U	**14 J**	20 U	20 U	20 U	**11 J**	**14 J**
ICS-P30-SO-32-120914	18 U	18 U	92 U	92 U	18 U	18 U	18 U	**3.0 J**	18 U	**14 J**	18 U	18 U	18 U	**9.2 J**	**11 J**
ICS-P31-SO-4-120914	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U	19 U	**13 J**	19 U	19 U	19 U	19 U	19 U
ICS-P31-SO-10-120914	19 U	**6.8 J**	97 U	97 U	19 U	19 U	19 U	4.8 U	19 U	**42**	19 U	19 U	19 U	**48**	**39**
ICS-P31-SO-16-120914	20 U	20 U	98 U	98 U	20 U	20 U	20 U	4.9 U	20 U	**12 J**	20 U	20 U	20 U	20 U	20 U
ICS-P31-SO-32-120914	19 U	19 U	96 U	96 U	**39**	19 U	19 U	4.8 U	19 U	**12 J**	19 U	19 U	19 U	19 U	19 U
ICS-P29-SO-4-121014	**640**	**360**	1200 U	1200 U	**260 J_B**	230 U	**350**	58 U	**410**	**2400**	230 U	**480**	**310**	**1100**	**1500**
ICS-P29-SO-10-121014	**38**	**26**	93 U	93 U	19 U	19 U	**30**	4.7 U	**35**	**410**	**44 J_O**	**25**	19 U	**47**	**90**
ICS-P29-SO-16-121014	**230**	**230**	94 U	94 U	19 U	19 U	**150**	4.7 U	**50**	**860**	**120 J_O**	**81**	19 U	**330**	**210**
ICS-DUP2-121014	**200**	**190**	95 U	95 U	19 U	19 U	**150**	4.7 U	**48**	**660**	**110 J_O**	**72**	19 U	**270**	**170**
ICS-P29-SO-32-121014	20 U	20 U	99 U	99 U	20 U	20 U	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P16-SO-4-121014	20 U	20 U	98 U	98 U	20 U	20 U	20 U	4.9 U	20 U	**21**	20 U	20 U	20 U	**24**	**22**
ICS-P16-SO-10-121014	20 U	20 U	99 U	99 U	20 U	20 U	20 U	5.0 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P16-SO-16-121014	20 U	20 U	98 U	98 U	20 U	20 U	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P28-SO-4-121514	**20**	**12 J**	98 U	98 U	**19 J**	20 U	**54**	4.9 U	**14 J**	**34**	**11 J**	20 U	20 U	20 U	20 U
ICS-P28-SO-10-121514	20 U	20 U	98 U	98 U	20 U	20 U	20 U	4.9 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ICS-P28-SO-16-121514	18 U	18 U	92 U	92 U	**19**	18 U	18 U	4.6 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U
ICS-P28-SO-32-121514	19 U	19 U	93 U	93 U	**18 J**	19 U	19 U	4.6 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P32-SO-16-121514	19 U	19 U	96 U	96 U	**33**	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-SO-DUPL3-121514	18 U	18 U	93 U	93 U	**18**	18 U	18 U	4.6 U	18 U	18 U	18 U	18 U	18 U	18 U	18 U
ICS-P32-SO-32-121514	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P18-SO-4-121614	**1800**	**1300**	980 U	980 U	200 U	200 U	**2900**	4.9 U	**50**	**12,000**	**1100 J_O**	**3500**	**210**	**12,000**	**12,000**
ICS-P18-SO-10-121614	**420**	**230**	190 U	190 U	39 U	39 U	**480**	4.8 U	19 U	**1200**	**58 J_O**	**87**	**16 J**	**480**	**360**
ICS-P18-SO-16-121614	**570**	**310**	420 U	420 U	**170**	84 U	**610**	21 U	**100**	**2700**	**160 J_O**	**500**	**100**	**1700**	**1700**
ICS-P18-SO-32-121614	19 U	19 U	94 U	94 U	**25**	19 U	19 U	4.7 U	19 U	19 U	19 U	19 U	19 U	**6.6 J**	**5.7 J**
ICS-P19-SO-4-121614	**45**	**33**	110 U	110 U	**23**	22 U	**71**	5.4 U	**53**	**310**	**21 J**	**47**	**14 J**	**230**	**250**
ICS-P19-SO-10-121614	19 U	19 U	95 U	95 U	**23**	19 U	19 U	4.7 U	**15 J**	**17 J**	19 U	**7.6 J**	19 U	**8.5 J**	**19**
ICS-P19-SO-16-121614	20 U	20 U	97 U	97 U	**18 J**	20 U	20 U	4.9 U	20 U	**18 J**	20 U	20 U	20 U	**11 J**	**9.7 J**

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value may be biased high due to contribution from laboratory background or method blank.
J_O = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry
ICS-P27-SO-3-111114	**8.0 J_O**	**20**	**48 J_B**	**56**	19 U	**78**	**19**	**28**	**9.7 J**	**39**	110	367	2.5 U	2.5 U	2.5 U
ICS-P27-SO-11-111114	4.8 U	19 U	**33 J_B**	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.47 U	0.47 U	0.47 U
ICS-P27-SO-16-111114	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U
ICS-P27-SO-32-111114	4.6 U	19 U	46 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	19 U	37 U	0.48 U	0.48 U	0.48 U
ICS-P25-SO-3-111114	**15 J_O**	**62**	**72 J_B**	**95**	19 U	**150**	**76**	**59**	**16 J**	**65**	177	853	2.4 U	2.4 U	2.4 U
ICS-P25-SO-10-111114	**5.3 J_O**	19 U	47 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	19 U	37 U	0.48 U	0.48 U	0.48 U
ICS-P25-SO-16-111114	**9.2 J_O**	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.54 U	0.48 U
ICS-P17-SO-4-111214	4.7 U	19 U	47 U	**30**	19 U	37 U	19 U	19 U	19 U	19 U	1069	117	4.8 U	4.8 U	4.8 U
ICS-P17-SO-10-111214	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U	19 U	19 U	19 U	24	39 U	0.48 U	0.48 U	0.48 U
ICS-P17-SO-16-111214	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U
ICS-P20-SO-3-111214	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U	19 U	19 U	19 U	39	39 U	0.48 U	0.48 U	0.48 U
ICS-P20-SO-10-111214	**2.7 J**	19 U	48 U	19 U	19 U	39 U	19 U	19 U	19 U	19 U	19 U	39 U	0.47 U	0.47 U	0.47 U
ICS-P20-SO-16-111214	**3.6 J**	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.49 U	0.49 U	0.49 U
ICS-P23-SO-3-111214	4.9 U	**31**	49 U	**50**	19 U	**91**	**33**	**40**	**14 J**	**45**	19 U	428	0.48 U	0.48 U	0.48 U
ICS-P23-SO-10-111214	**5.2 J_O**	19 U	48 U	19 U	19 U	39 U	19 U	19 U	19 U	19 U	19 U	39 U	0.47 U	0.47 U	0.47 U
ICS-P23-SO-16-111214	**4.8 J**	20 U	50 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	40 U	0.48 U	0.48 U	0.48 U
ICS-P13-SO-4-111314	**20**	**37**	**190**	**79**	20 U	**130**	**46**	**48**	**13 J**	**58**	163	592	2.4 U	2.4 U	2.4 U
ICS-P13-SO-10-111314	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U	0.47 U	0.47 U	0.47 U
ICS-P13-SO-17-111314	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.49 U	0.49 U	0.49 U
ICS-P24-SO-4-111314	**3.3 J**	18 U	46 U	**14 J**	18 U	**16 J**	18 U	18 U	18 U	18 U	19 U	65	0.50 U	0.50 U	0.50 U
ICS-P24-SO-10-111314	4.8 U	**50**	**390**	**150**	19 U	**170**	**100**	**30**	19 U	**22**	1113	832	2.5 U	8.5 U	2.5 U
ICS-P24-SO-16-111314	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.49 U	0.49 U	0.49 U
ICS-P26-SO-4-111314	**4.7**	**45**	**31 J**	**64**	19 U	**83**	**47**	**29**	**13 J**	**39**	167	519	0.47 U	0.47 U	0.47 U
ICS-P26-SO-10-111314	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	40 U	0.48 U	0.48 U	0.48 U
ICS-P26-SO-16-111314	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U	0.48 U	0.48 U	0.48 U
ICS-P14-SO-4-111414	**10**	**24**	48 U	**39**	**9.5 J**	**50**	**23**	**22**	**11 J**	**36**	189	327	0.48 U	0.48 U	0.48 U
ICS-P14-SO-10-111414	**9.0**	**70**	48 U	**100**	19 U	**100**	**37**	**26**	**13 J**	**42**	364	998	0.49 U	0.49 U	0.49 U
ICS-P14-SO-16-111414	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U
ICS-P15-SO-4-111414	**26**	**14 J**	**65**	**25**	20 U	**22 J**	20 U	20 U	20 U	20 U	98	127	0.47 U	0.47 U	0.47 U
ICS-P15-SO-10-111414	**12**	20 U	49 U	20 U	20 U	**16 J**	20 U	20 U	20 U	20 U	160	20 U	0.90 U	0.50 U	0.50 U
ICS-P15-SO-16-111414	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.49 U	0.49 U	0.49 U
ICS-P22-SO-4-111414	4.7 U	**11 J**	**28 J**	**16 J**	19 U	**23 J**	19 U	19 U	19 U	19 U	894	121	0.47 U	0.47 U	0.47 U
ICS-P22-SO-10-111414	**5.5**	19 U	**28 J**	19 U	19 U	**16 J**	19 U	19 U	19 U	19 U	34	42	0.50 U	0.50 U	0.50 U
ICS-P22-SO-16-111414	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.49 U	0.49 U	0.49 U
ICS-P11-SO-4-111714	**7.7**	**12 J**	47 U	**12 J**	19 U	**23 J**	**12 J**	**12 J**	19 U	**21**	66	124	0.46 U	0.46 U	0.46 U
ICS-P11-SO-10-111714	**8.1**	19 U	**91**	19 U	19 U	**16 J**	19 U	19 U	19 U	**11 J**	51	51	35 U	29 U	4.9 U
ICS-P11-SO-16-111714	**2.7 J**	20 U	50 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	40 U	0.49 U	0.49 U	0.49 U
ICS-P12-SO-4-111714	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U	0.48 U	0.48 U	0.48 U
ICS-P12-SO-10-111714	**8.0**	19 U	47 U	19 U	19 U	**11 J**	19 U	19 U	19 U	**12 J**	19 U	19 U	0.49 U	0.49 U	0.49 U
ICS-P12-SO-13-111714	**3.1 J**	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U	0.47 U	0.47 U	0.47 U
ICS-P12-SO-16-111714	**5.0**	19 U	47 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	19 U	37 U	0.48 U	0.48 U	0.48 U

Remedial Investigation
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Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry	Di-n-octyl-phthalate 117-84-0 µg/kg, dry	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry
ICS-P21-SO-7-120814	**130**	**350**	**970**	**460**	37 U	**500**	**310**	**180**	**65**	**190**	5710	4255	4.7 U	4.7 U	4.7 U
ICS-P21-SO-13-120814	8.6 U	**160**	**210**	**230**	34 U	**270**	**130**	**79**	**40**	**74**	688	1623	4.8 U	4.8 U	4.8 U
ICS-P21-SO-16-120814	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U	19 U	19 U	19 U	29	39 U	0.50 U	0.50 U	0.50 U
ICS-P21-SO-32-120814	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	22	37 U	0.48 U	0.48 U	0.48 U
ICS-P33-SO-16-120814	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.50 U	0.50 U	0.50 U
ICS-P33-SO-32-120814	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U
ICS-P30-SO-7-120914	**690**	**940**	**2400**	**1100**	44 U	**1400**	**1300**	**580**	**220**	**850**	2001	9690	2.5 U	5.4 U	2.5 U
ICS-P30-SO-13-120914	**140**	**280**	**660**	**420**	20 U	**420**	**240**	**150**	**46**	**180**	1152	3216	2.5 U	5.9 U	2.5 U
ICS-P30-SO-16-120914	**2.6 J**	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	44	39 U	0.48 U	0.48 U	0.48 U
ICS-P30-SO-32-120914	**2.8 J**	**5.6 J**	46 U	**9.2 J**	18 U	**11 J**	18 U	18 U	18 U	18 U	18 U	46	0.47 U	0.47 U	0.47 U
ICS-P31-SO-4-120914	**2.6 J**	19 U	47 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	19 U	37 U	0.48 U	0.48 U	0.48 U
ICS-P31-SO-10-120914	**3.4 J**	**13 J**	48 U	**17 J**	19 U	**20 J**	19 U	19 U	19 U	19 U	42	137	0.47 U	0.47 U	0.47 U
ICS-P31-SO-16-120914	**7.0**	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U	0.47 U	0.47 U	0.47 U
ICS-P31-SO-32-120914	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.49 U	0.49 U	0.49 U
ICS-P29-SO-4-121014	58 U	**340**	**7600**	**660**	230 U	**310 J**	230 U	230 U	230 U	230 U	4220	3910	30 U	170 U	30 U
ICS-P29-SO-10-121014	4.7 U	**16 J**	**34 J**	**26**	19 U	**20 J**	**7.5 J**	19 U	19 U	19 U	723	207	4.9 U	4.9 U	4.9 U
ICS-P29-SO-16-121014	4.7 U	**71**	47 U	**81**	19 U	**58**	**30**	**11 J**	19 U	**16 J**	1851	807	0.98 U	1.6 U	0.98 U
ICS-DUP2-121014	4.7 U	**54**	47 U	**67**	19 U	**49**	**26**	19 U	19 U	**11 J**	1562	647	0.98 U	1.5 U	0.98 U
ICS-P29-SO-32-121014	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	40 U	0.47 U	0.47 U	0.47 U
ICS-P16-SO-4-121014	4.9 U	**7.8 J**	49 U	**17 J**	20 U	**26 J**	20 U	**11 J**	20 U	**14 J**	34	122	4.8 U	4.8 U	4.8 U
ICS-P16-SO-10-121014	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	40 U	0.48 U	0.48 U	0.48 U
ICS-P16-SO-16-121014	**2.7 J**	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U	0.48 U	0.48 U	0.48 U
ICS-P28-SO-4-121514	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	338	39 U	0.47 U	0.47 U	0.47 U
ICS-P28-SO-10-121514	**11**	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	28	39 U	0.49 U	0.49 U	0.49 U
ICS-P28-SO-16-121514	4.6 U	18 U	46 U	18 U	18 U	37 U	18 U	18 U	18 U	18 U	18 U	37 U	0.47 U	0.47 U	0.47 U
ICS-P28-SO-32-121514	4.6 U	19 U	46 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	19 U	37 U	0.47 U	0.47 U	0.47 U
ICS-P32-SO-16-121514	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U
ICS-SO-DUPL3-121514	4.6 U	18 U	46 U	18 U	18 U	37 U	18 U	18 U	18 U	18 U	18 U	37 U	0.47 U	0.47 U	0.47 U
ICS-P32-SO-32-121514	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U
ICS-P18-SO-4-121614	**23**	**6800**	490 U	**8100**	200 U	**11,000**	**7200**	**3900**	**1700**	**3900**	22,498	66,600	2.7 U	14 U	2.7 U
ICS-P18-SO-10-121614	**22**	**75**	**200**	**99**	39 U	**75 J**	**39**	**21 J**	39 U	**33 J**	3387	1182	0.48 U	1.4 U	0.48 U
ICS-P18-SO-16-121614	**210**	**640**	**1100**	**1000**	84 U	**1200**	**570**	**180**	**80 J**	**180**	5260	7250	16 U	16 U	32 U
ICS-P18-SO-32-121614	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U	0.48 U	0.48 U	0.48 U
ICS-P19-SO-4-121614	5.4 U	**140**	**220**	**230**	22 U	**250**	**140**	**28**	**18 J**	**32**	733	1318	2.4 U	2.4 U	2.4 U
ICS-P19-SO-10-121614	4.7 U	19 U	**35 J**	19 U	19 U	38 U	19 U	19 U	19 U	19 U	25	38 U	4.9 U	4.9 U	4.9 U
ICS-P19-SO-16-121614	**5.3**	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U	0.50 U	0.50 U	0.50 U

J = estimate associated with value less than the verifiable lower quantitation limit.
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ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry
ICS-P27-SO-3-111114	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	**87**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	25 U	5.0 U
ICS-P27-SO-11-111114	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	**1.6**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U
ICS-P27-SO-16-111114	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U
ICS-P27-SO-32-111114	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-P25-SO-3-111114	2.4 U	2.4 U	2.4 U	16 U	2.4 U	49 U	4.8 U	29 U	4.8 U	4.8 U	4.8 U	130 U	24 U	94 U
ICS-P25-SO-10-111114	0.48 U	0.48 U	0.48 U	3.7 U	0.48 U	10 U	4.0 U	8.9 U	0.96 U	0.96 U	0.96 U	19 U	4.8 U	16 U
ICS-P25-SO-16-111114	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U
ICS-P17-SO-4-111214	4.8 U	4.8 U	4.8 U	84 U	4.8 U	650 U	48 U	220 U	9.6 U	9.6 U	48 U	1600 U	240 U	9.6 U
ICS-P17-SO-10-111214	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	6.1 U	4.8 U	4.3 U
ICS-P17-SO-16-111214	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U
ICS-P20-SO-3-111214	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U
ICS-P20-SO-10-111214	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	1.3 U	4.7 U	0.94 U
ICS-P20-SO-16-111214	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U
ICS-P23-SO-3-111214	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	6.4 U	2.1 U	2.7 U	0.96 U	0.96 U	0.96 U	26 U	4.8 U	40 U
ICS-P23-SO-10-111214	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	**1.5**	0.94 U	0.94 U	**2.5 J_P**	0.94 U	2.5 U	4.7 U	2.5 U
ICS-P23-SO-16-111214	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-P13-SO-4-111314	2.4 U	2.4 U	2.4 U	18 U	2.4 U	4.9 U	4.9 U	6.6 U	4.9 U	**120 J_P**	4.9 U	57 U	24 U	17 U
ICS-P13-SO-10-111314	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	1.2 U
ICS-P13-SO-17-111314	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U
ICS-P24-SO-4-111314	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.3 U	11 U	3.4 U
ICS-P24-SO-10-111314	2.5 U	10 U	2.5 U	50 U	14 U	50 U	**140**	18 U	49 U	**480 J_P**	5.0 U	140 U	200 U	50 U
ICS-P24-SO-16-111314	0.49 U	0.49 U	0.49 U	2.2 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	33 U	0.98 U	4.9 U	2.4 U
ICS-P26-SO-4-111314	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	1.9 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	6.2 U	4.7 U	5.0 U
ICS-P26-SO-10-111314	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U
ICS-P26-SO-16-111314	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U
ICS-P14-SO-4-111414	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	2.4 U	0.95 U	4.8 U	1.4 U
ICS-P14-SO-10-111414	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U
ICS-P14-SO-16-111414	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.48 U	4.8 U	0.95 U
ICS-P15-SO-4-111414	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	1.5 U	4.7 U	0.94 U
ICS-P15-SO-10-111414	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U	5.0 U	1.0 U
ICS-P15-SO-16-111414	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U
ICS-P22-SO-4-111414	0.47 U	0.54 U	0.47 U	1.3 U	0.47 U	2.9 U	**1.9 J_P**	1.6 U	0.94 U	**15 J_P**	4.6 U	7.8 U	4.7 U	5.1 U
ICS-P22-SO-10-111414	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U
ICS-P22-SO-16-111414	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U
ICS-P11-SO-4-111714	0.46 U	0.46 U	0.46 U	0.93 U	0.46 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	4.6 U	0.93 U
ICS-P11-SO-10-111714	85 U	4.9 U	4.9 U	9.7 U	4.9 U	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U	9.7 U	49 U	9.7 U
ICS-P11-SO-16-111714	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	4.9 U	0.99 U
ICS-P12-SO-4-111714	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-P12-SO-10-111714	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U
ICS-P12-SO-13-111714	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U
ICS-P12-SO-16-111714	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
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Field I.D.	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry	Endrin 72-20-8 µg/kg, dry	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry
ICS-P21-SO-7-120814	4.7 U	36 U	4.7 U	47 U	4.7 U	57 U	**130 J_P**	62 U	31 U	**290 J_P**	21 U	130 U	47 U	72 U
ICS-P21-SO-13-120814	4.8 U	12 U	4.8 U	28 U	4.8 U	41 U	**98 J_P**	9.6 U	9.6 U	**120 J_P**	9.6 U	78 U	48 U	25 U
ICS-P21-SO-16-120814	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U
ICS-P21-SO-32-120814	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U
ICS-P33-SO-16-120814	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U
ICS-P33-SO-32-120814	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U
ICS-P30-SO-7-120914	2.5 U	7.1 U	2.5 U	4.9 U	2.5 U	4.9 U	**28 J_P**	4.9 U	4.9 U	**17 J_P**	4.9 U	29 U	25 U	15 U
ICS-P30-SO-13-120914	2.5 U	5.7 U	2.5 U	5.0 U	2.5 U	5.0 U	**23 J_P**	5.0 U	5.0 U	**15 J_P**	5.0 U	24 U	25 U	15 U
ICS-P30-SO-16-120914	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U
ICS-P30-SO-32-120914	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	1.8 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-P31-SO-4-120914	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-P31-SO-10-120914	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-P31-SO-16-120914	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-P31-SO-32-120914	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U
ICS-P29-SO-4-121014	47 U	140 U	30 U	390 U	30 U	97 U	250 U	61 U	200 U	61 U	61 U	590 U	300 U	61 U
ICS-P29-SO-10-121014	4.9 U	6.0 U	4.9 U	21 U	4.9 U	9.7 U	**14**	9.7 U	9.7 U	9.7 U	9.7 U	34 U	49 U	9.7 U
ICS-P29-SO-16-121014	0.98 U	1.8 U	0.98 U	8.3 U	0.98 U	2.0 U	**27 J_P**	2.0 U	3.8 U	2.0 U	2.0 U	10 U	9.8 U	2.0 U
ICS-DUP2-121014	0.98 U	1.8 U	0.98 U	7.3 U	0.98 U	2.0 U	**24 J_P**	2.0 U	3.1 U	2.0 U	2.0 U	8.0 U	9.8 U	2.0 U
ICS-P29-SO-32-121014	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-P16-SO-4-121014	4.8 U	4.8 U	4.8 U	9.6 U	4.8 U	**250 J_P**	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	14 U	48 U	9.6 U
ICS-P16-SO-10-121014	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U
ICS-P16-SO-16-121014	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U
ICS-P28-SO-4-121514	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-P28-SO-10-121514	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.9 U	0.97 U
ICS-P28-SO-16-121514	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-P28-SO-32-121514	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U
ICS-P32-SO-16-121514	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	0.97 U
ICS-SO-DUPL3-121514	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U	0.94 U
ICS-P32-SO-32-121514	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U	0.96 U
ICS-P18-SO-4-121614	9.3 U	18 U	2.7 U	33 U	2.7 U	9.9 U	**41 J_P**	5.4 U	5.4 U	**71 J_P**	5.4 U	27 U	27 U	5.4 U
ICS-P18-SO-10-121614	0.48 U	0.48 U	0.48 U	7.0 U	0.91 U	0.96 U	4.3 U	0.96 U	0.96 U	**7.5 J_P**	0.96 U	6.3 U	12 U	2.2 U
ICS-P18-SO-16-121614	16 U	16 U	16 U	70 U	16 U	32 U	**280**	32 U	32 U	**450 J_P**	32 U	280 U	160 U	100 U
ICS-P18-SO-32-121614	0.48 U	0.48 U	0.48 U	0.96 U	1.2 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	21 U	0.96 U	4.8 U	0.96 U
ICS-P19-SO-4-121614	2.4 U	2.4 U	2.4 U	12 U	2.4 U	4.9 U	4.9 U	4.9 U	4.9 U	**35 J_P**	4.9 U	18 U	24 U	4.9 U
ICS-P19-SO-10-121614	4.9 U	6.4 U	4.9 U	9.8 U	4.9 U	12 U	**60**	9.8 U	9.8 U	**61 J_P**	9.8 U	16 U	49 U	9.8 U
ICS-P19-SO-16-121614	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.3 U	5.0 U	1.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Endrin aldehyde 7421-93-4 µg/kg, dry	trans-Chlordane 5103-74-2 µg/kg, dry	cis-Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachlorobutadiene 87-68-3 µg/kg, dry	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-P27-SO-3-111114	5.0 U	**25**	**29**	120 U	5.0 U	5.0 U	4.0 U	4.0 U	4.0 U	99 U	**40**	4.0 U	4.0 U	40
ICS-P27-SO-11-111114	0.95 U	0.47 U	0.47 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	5.7 U	**3.4 J**	3.8 U	3.8 U	5.7 U
ICS-P27-SO-16-111114	0.97 U	0.48 U	0.48 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P27-SO-32-111114	0.96 U	0.48 U	0.48 U	24 U	0.96 U	*(see M.8260C result)*	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P25-SO-3-111114	37 U	6.0 U	15 U	120 U	4.8 U	4.8 U	38 U	38 U	38 U	**1600**	**2200**	38 U	38 U	3800
ICS-P25-SO-10-111114	5.0 U	0.48 U	0.48 U	24 U	0.96 U	*(see M.8260C result)*	3.8 U	3.8 U	29 U	**220**	**300**	3.8 U	3.8 U	520
ICS-P25-SO-16-111114	0.97 U	0.48 U	0.48 U	24 U	0.97 U	*(see M.8260C result)*	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P17-SO-4-111214	48 U	4.8 U	4.8 U	240 U	21 U	*(see M.8260C result)*	490 U	490 U	490 U	9800 U	**34,000**	490 U	490 U	34,000
ICS-P17-SO-10-111214	0.96 U	0.48 U	0.48 U	24 U	0.96 U	*(see M.8260C result)*	3.8 U	3.8 U	3.8 U	12 U	**22**	3.8 U	3.8 U	22
ICS-P17-SO-16-111214	0.95 U	0.48 U	0.48 U	24 U	0.95 U	*(see M.8260C result)*	3.8 U	3.8 U	3.8 U	3.8 U	**2.1 J**	3.8 U	3.8 U	3.8 U
ICS-P20-SO-3-111214	0.95 U	0.48 U	0.48 U	24 U	0.95 U	*(see M.8260C result)*	3.8 U	3.8 U	3.8 U	3.8 U	**5.1**	3.8 U	3.8 U	5.1
ICS-P20-SO-10-111214	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	**13**	**14**	**10**	3.8 U	3.8 U	37
ICS-P20-SO-16-111214	0.97 U	0.49 U	0.49 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P23-SO-3-111214	18 U	0.48 U	0.48 U	24 U	**2.1**	0.96 U	3.8 U	3.8 U	3.8 U	96 U	**520**	3.8 U	3.8 U	520
ICS-P23-SO-10-111214	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	**28**	**23**	**14**	3.8 U	3.8 U	65
ICS-P23-SO-16-111214	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P13-SO-4-111314	4.9 U	2.4 U	2.4 U	120 U	4.9 U	4.9 U	3.9 U	3.9 U	**230**	**1100**	**280**	3.9 U	3.9 U	1610
ICS-P13-SO-10-111314	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P13-SO-17-111314	0.98 U	0.49 U	0.49 U	24 U	0.98 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P24-SO-4-111314	1.6 U	0.97 U	1.6 U	25 U	1.0 U	1.0 U	4.0 U	4.0 U	6.0 U	**42**	**58**	4.0 U	4.0 U	100
ICS-P24-SO-10-111314	44 U	8.9 U	7.0 U	120 U	5.0 U	5.0 U	4.0 U	4.0 U	**980**	**1400**	**420**	4.0 U	4.0 U	2800
ICS-P24-SO-16-111314	2.6 U	0.49 U	0.49 U	24 U	0.98 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P26-SO-4-111314	0.94 U	0.53 U	1.1 U	23 U	0.94 U	1.3 U	3.8 U	3.8 U	**18**	**53**	**57**	3.8 U	3.8 U	128
ICS-P26-SO-10-111314	0.97 U	0.48 U	0.48 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P26-SO-16-111314	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P14-SO-4-111414	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	**24**	**43**	**27**	3.8 U	3.8 U	94
ICS-P14-SO-10-111414	0.99 U	0.49 U	0.49 U	25 U	0.99 U	0.99 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P14-SO-16-111414	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P15-SO-4-111414	0.94 U	0.47 U	0.47 U	23 U	0.94 U	0.94 U	3.7 U	3.7 U	7.5 U	**20**	**5.9**	3.7 U	3.7 U	26
ICS-P15-SO-10-111414	1.0 U	0.50 U	0.50 U	25 U	1.8 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	5.0 U
ICS-P15-SO-16-111414	0.98 U	0.49 U	0.49 U	24 U	0.98 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P22-SO-4-111414	3.8 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.7 U	3.7 U	**65**	**120 J_P**	**98**	3.7 U	3.7 U	283
ICS-P22-SO-10-111414	0.99 U	0.50 U	2.6 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	**13**	**19**	**16**	4.0 U	4.0 U	48
ICS-P22-SO-16-111414	0.99 U	0.49 U	0.49 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P11-SO-4-111714	0.93 U	0.46 U	0.46 U	23 U	0.93 U	0.93 U	3.7 U	3.7 U	3.7 U	**3.1 J**	3.7 U	3.7 U	3.7 U	3.7 U
ICS-P11-SO-10-111714	9.7 U	4.9 U	4.9 U	240 U	9.7 U	9.7 U	3.9 U	3.9 U	9.8 U	3.9 U	3.9 U	3.9 U	3.9 U	9.8 U
ICS-P11-SO-16-111714	0.99 U	0.49 U	0.49 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P12-SO-4-111714	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	3.8 U	**5.3**	3.8 U	3.8 U	3.8 U	5.3
ICS-P12-SO-10-111714	0.97 U	0.49 U	0.49 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P12-SO-13-111714	0.95 U	0.47 U	0.47 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P12-SO-16-111714	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	Endrin aldehyde 7421-93-4 µg/kg, dry	trans-Chlordane 5103-74-2 µg/kg, dry	cis-Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachlorobutadiene 87-68-3 µg/kg, dry	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-P21-SO-7-120814	9.4 U	4.7 U	4.7 U	230 U	9.4 U	*(see M.8260C result)*	380 U	380 U	**4400**	**3300**	**1500**	380 U	380 U	9200
ICS-P21-SO-13-120814	9.6 U	28 U	4.8 U	240 U	9.6 U	9.6 U	96 U	96 U	**1900**	**1900**	**500**	96 U	96 U	4300
ICS-P21-SO-16-120814	0.99 U	0.50 U	0.50 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	**4.6**	**4.9**	4.0 U	4.0 U	4.0 U	9.5
ICS-P21-SO-32-120814	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P33-SO-16-120814	0.99 U	0.50 U	0.50 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P33-SO-32-120814	0.97 U	0.48 U	0.48 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P30-SO-7-120914	4.9 U	2.5 U	2.5 U	120 U	13 U	4.9 U	3.9 U	3.9 U	**450**	**330**	**200**	3.9 U	3.9 U	980
ICS-P30-SO-13-120914	5.0 U	2.5 U	2.5 U	120 U	5.0 U	5.0 U	4.0 U	4.0 U	**530**	**400**	**230**	4.0 U	4.0 U	1160
ICS-P30-SO-16-120914	0.97 U	0.48 U	0.48 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	19 U	12 U	4.8 U	3.9 U	3.9 U	19 U
ICS-P30-SO-32-120914	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	**5.3**	**6.0**	3.8 U	3.8 U	3.8 U	11
ICS-P31-SO-4-120914	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P31-SO-10-120914	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P31-SO-16-120914	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P31-SO-32-120914	0.98 U	0.49 U	0.49 U	24 U	0.98 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P29-SO-4-121014	61 U	30 U	83 U	1500 U	61 U	*(see M.8260C result)*	24 U	24 U	**17,000**	**9700**	**5600**	24 U	24 U	32,300
ICS-P29-SO-10-121014	9.7 U	4.9 U	4.9 U	240 U	9.7 U	*(see M.8260C result)*	3.9 U	3.9 U	**460**	**320**	**290**	3.9 U	3.9 U	1070
ICS-P29-SO-16-121014	2.0 U	0.98 U	0.98 U	49 U	2.0 U	2.0 U	3.9 U	3.9 U	**150**	**170**	**45**	3.9 U	3.9 U	365
ICS-DUP2-121014	2.0 U	0.98 U	0.98 U	49 U	2.0 U	2.0 U	3.9 U	3.9 U	**150**	**160**	**32**	3.9 U	3.9 U	342
ICS-P29-SO-32-121014	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	**4.9**	**2.6 J**	**2.8 J**	3.8 U	3.8 U	10.3
ICS-P16-SO-4-121014	9.6 U	4.8 U	4.8 U	240 U	9.6 U	*(see M.8260C result)*	3.8 U	3.8 U	13 U	**160**	**23**	3.8 U	3.8 U	183
ICS-P16-SO-10-121014	0.97 U	0.48 U	0.48 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P16-SO-16-121014	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P28-SO-4-121514	0.94 U	0.54 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	4.7 U	**5.4**	3.8 U	3.8 U	5.4
ICS-P28-SO-10-121514	0.97 U	0.49 U	0.49 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	**5.1**	3.9 U	3.9 U	5.1
ICS-P28-SO-16-121514	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	9.4 U	**13**	3.8 U	3.8 U	13
ICS-P28-SO-32-121514	0.95 U	0.47 U	0.47 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P32-SO-16-121514	0.97 U	0.48 U	0.48 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-SO-DUPL3-121514	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P32-SO-32-121514	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P18-SO-4-121614	5.4 U	2.7 U	2.7 U	140 U	5.4 U	5.4 U	22 U	22 U	**3500**	**1600**	**420**	22 U	22 U	5520
ICS-P18-SO-10-121614	3.4 U	1.0 U	1.2 U	24 U	0.96 U	0.96 U	19 U	19 U	**110**	**190**	**69**	19 U	19 U	369
ICS-P18-SO-16-121614	32 U	16 U	16 U	790 U	32 U	*(see M.8260C result)*	20 U	20 U	**3600**	**6100**	**2000**	20 U	20 U	11,700
ICS-P18-SO-32-121614	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	**5.1**	**3.8 J**	3.8 U	3.8 U	3.8 U	8.9
ICS-P19-SO-4-121614	4.9 U	2.4 U	2.4 U	120 U	4.9 U	4.9 U	19 U	19 U	**660**	**670**	**120**	19 U	19 U	1450
ICS-P19-SO-10-121614	9.8 U	4.9 U	4.9 U	240 U	9.8 U	*(see M.8260C result)*	20 U	20 U	**340**	**290**	**170**	20 U	20 U	800
ICS-P19-SO-16-121614	1.0 U	0.50 U	0.50 U	25 U	**1.4**	1.0 U	20 U	20 U	**28**	**43 J_P**	**60**	20 U	20 U	131

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to noncompliance with all criteria for identification and/or chemical interference.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	2,3,7,8-TCDF 51207-31-9 ng/kg, dry	total TCDF 55722-27-5 ng/kg, dry	2,3,7,8-TCDD 1746-01-6 ng/kg, dry	total TCDD 41903-57-5 ng/kg, dry	1,2,3,7,8-PeCDF 57117-41-6 ng/kg, dry	2,3,4,7,8-PeCDF 57117-31-4 ng/kg, dry	total PeCDF 30402-15-4 ng/kg, dry	1,2,3,7,8-PeCDD 40321-76-4 ng/kg, dry	total PeCDD 36088-22-9 ng/kg, dry	1,2,3,4,7,8-HxCDF 70648-26-9 ng/kg, dry	1,2,3,6,7,8-HxCDF 57117-44-9 ng/kg, dry	2,3,4,6,7,8-HxCDF 60851-34-5 ng/kg, dry	1,2,3,7,8,9-HxCDF 72918-21-9 ng/kg, dry	total HxCDF 55684-94-1 ng/kg, dry
ICS-P27-SO-3-111114														
ICS-P27-SO-11-111114														
ICS-P27-SO-16-111114														
ICS-P27-SO-32-111114														
ICS-P25-SO-3-111114														
ICS-P25-SO-10-111114														
ICS-P25-SO-16-111114														
ICS-P17-SO-4-111214														
ICS-P17-SO-10-111214														
ICS-P17-SO-16-111214														
ICS-P20-SO-3-111214														
ICS-P20-SO-10-111214														
ICS-P20-SO-16-111214														
ICS-P23-SO-3-111214														
ICS-P23-SO-10-111214														
ICS-P23-SO-16-111214														
ICS-P13-SO-4-111314														
ICS-P13-SO-10-111314														
ICS-P13-SO-17-111314														
ICS-P24-SO-4-111314														
ICS-P24-SO-10-111314														
ICS-P24-SO-16-111314														
ICS-P26-SO-4-111314														
ICS-P26-SO-10-111314														
ICS-P26-SO-16-111314														
ICS-P14-SO-4-111414														
ICS-P14-SO-10-111414														
ICS-P14-SO-16-111414														
ICS-P15-SO-4-111414														
ICS-P15-SO-10-111414														
ICS-P15-SO-16-111414														
ICS-P22-SO-4-111414														
ICS-P22-SO-10-111414														
ICS-P22-SO-16-111414														
ICS-P11-SO-4-111714														
ICS-P11-SO-10-111714														
ICS-P11-SO-16-111714														
ICS-P12-SO-4-111714														
ICS-P12-SO-10-111714														
ICS-P12-SO-13-111714														
ICS-P12-SO-16-111714														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	2,3,7,8-TCDF 51207-31-9 ng/kg, dry	total TCDF 55722-27-5 ng/kg, dry	2,3,7,8-TCDD 1746-01-6 ng/kg, dry	total TCDD 41903-57-5 ng/kg, dry	1,2,3,7,8-PeCDF 57117-41-6 ng/kg, dry	2,3,4,7,8-PeCDF 57117-31-4 ng/kg, dry	total PeCDF 30402-15-4 ng/kg, dry	1,2,3,7,8-PeCDD 40321-76-4 ng/kg, dry	total PeCDD 36088-22-9 ng/kg, dry	1,2,3,4,7,8-HxCDF 70648-26-9 ng/kg, dry	1,2,3,6,7,8-HxCDF 57117-44-9 ng/kg, dry	2,3,4,6,7,8-HxCDF 60851-34-5 ng/kg, dry	1,2,3,7,8,9-HxCDF 72918-21-9 ng/kg, dry	total HxCDF 55684-94-1 ng/kg, dry
ICS-P21-SO-7-120814														
ICS-P21-SO-13-120814	**8.24**	267	**4.61**	78.6	**7.14**	**26.9**	693	**27.2**	165	**187**	**50.6**	**67.5**	**20.1**	1910
ICS-P21-SO-16-120814														
ICS-P21-SO-32-120814														
ICS-P33-SO-16-120814														
ICS-P33-SO-32-120814														
ICS-P30-SO-7-120914														
ICS-P30-SO-13-120914														
ICS-P30-SO-16-120914														
ICS-P30-SO-32-120914														
ICS-P31-SO-4-120914														
ICS-P31-SO-10-120914														
ICS-P31-SO-16-120914														
ICS-P31-SO-32-120914														
ICS-P29-SO-4-121014														
ICS-P29-SO-10-121014														
ICS-P29-SO-16-121014														
ICS-DUP2-121014														
ICS-P29-SO-32-121014														
ICS-P16-SO-4-121014														
ICS-P16-SO-10-121014														
ICS-P16-SO-16-121014														
ICS-P28-SO-4-121514														
ICS-P28-SO-10-121514														
ICS-P28-SO-16-121514														
ICS-P28-SO-32-121514														
ICS-P32-SO-16-121514														
ICS-SO-DUPL3-121514														
ICS-P32-SO-32-121514														
ICS-P18-SO-4-121614														
ICS-P18-SO-10-121614														
ICS-P18-SO-16-121614	**22.3**	344	**13.2**	213	**17.2**	**44.7**	1000	**47.2**	296	**354**	**97.7**	**128**	**43.4**	3840
ICS-P18-SO-32-121614														
ICS-P19-SO-4-121614														
ICS-P19-SO-10-121614														
ICS-P19-SO-16-121614														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	1,2,3,4,7,8-HxCDD 39227-28-6 ng/kg, dry	1,2,3,6,7,8-HxCDD 57653-85-7 ng/kg, dry	1,2,3,7,8,9-HxCDD 19408-74-3 ng/kg, dry	total HxCDD 34465-46-8 ng/kg, dry	1,2,3,4,6,7,8-HpCDF 67562-39-4 ng/kg, dry	1,2,3,4,7,8,9-HpCDF 55673-89-7 ng/kg, dry	total HpCDF 38998-75-3 ng/kg, dry	1,2,3,4,6,7,8-HpCDD 35822-46-9 ng/kg, dry	total HpCDD 37871-00-4 ng/kg, dry	OCDF 39001-02-0 ng/kg, dry	OCDD 3268-87-9 ng/kg, dry	TEQ ND=0 ng/kg, dry	TEQ ND/2 ng/kg, dry
ICS-P27-SO-3-111114													
ICS-P27-SO-11-111114													
ICS-P27-SO-16-111114													
ICS-P27-SO-32-111114													
ICS-P25-SO-3-111114													
ICS-P25-SO-10-111114													
ICS-P25-SO-16-111114													
ICS-P17-SO-4-111214													
ICS-P17-SO-10-111214													
ICS-P17-SO-16-111214													
ICS-P20-SO-3-111214													
ICS-P20-SO-10-111214													
ICS-P20-SO-16-111214													
ICS-P23-SO-3-111214													
ICS-P23-SO-10-111214													
ICS-P23-SO-16-111214													
ICS-P13-SO-4-111314													
ICS-P13-SO-10-111314													
ICS-P13-SO-17-111314													
ICS-P24-SO-4-111314													
ICS-P24-SO-10-111314													
ICS-P24-SO-16-111314													
ICS-P26-SO-4-111314													
ICS-P26-SO-10-111314													
ICS-P26-SO-16-111314													
ICS-P14-SO-4-111414													
ICS-P14-SO-10-111414													
ICS-P14-SO-16-111414													
ICS-P15-SO-4-111414													
ICS-P15-SO-10-111414													
ICS-P15-SO-16-111414													
ICS-P22-SO-4-111414													
ICS-P22-SO-10-111414													
ICS-P22-SO-16-111414													
ICS-P11-SO-4-111714													
ICS-P11-SO-10-111714													
ICS-P11-SO-16-111714													
ICS-P12-SO-4-111714													
ICS-P12-SO-10-111714													
ICS-P12-SO-13-111714													
ICS-P12-SO-16-111714													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Push Probe) Subsurface Soils Analyses, November-December 2014

Field I.D.	1,2,3,4,7,8-HxCDD 39227-28-6 ng/kg, dry	1,2,3,6,7,8-HxCDD 57653-85-7 ng/kg, dry	1,2,3,7,8,9-HxCDD 19408-74-3 ng/kg, dry	total HxCDD 34465-46-8 ng/kg, dry	1,2,3,4,6,7,8-HpCDF 67562-39-4 ng/kg, dry	1,2,3,4,7,8,9-HpCDF 55673-89-7 ng/kg, dry	total HpCDF 38998-75-3 ng/kg, dry	1,2,3,4,6,7,8-HpCDD 35822-46-9 ng/kg, dry	total HpCDD 37871-00-4 ng/kg, dry	OCDF 39001-02-0 ng/kg, dry	OCDD 3268-87-9 ng/kg, dry	TEQ ND=0 ng/kg, dry	TEQ ND/2 ng/kg, dry
ICS-P21-SO-7-120814													
ICS-P21-SO-13-120814	**48.3**	**157**	**123**	1070	**1620**	**86.0**	5460	**4630**	8400	**6230**	**43,000** J_E	184	184
ICS-P21-SO-16-120814													
ICS-P21-SO-32-120814													
ICS-P33-SO-16-120814													
ICS-P33-SO-32-120814													
ICS-P30-SO-7-120914													
ICS-P30-SO-13-120914													
ICS-P30-SO-16-120914													
ICS-P30-SO-32-120914													
ICS-P31-SO-4-120914													
ICS-P31-SO-10-120914													
ICS-P31-SO-16-120914													
ICS-P31-SO-32-120914													
ICS-P29-SO-4-121014													
ICS-P29-SO-10-121014													
ICS-P29-SO-16-121014													
ICS-DUP2-121014													
ICS-P29-SO-32-121014													
ICS-P16-SO-4-121014													
ICS-P16-SO-10-121014													
ICS-P16-SO-16-121014													
ICS-P28-SO-4-121514													
ICS-P28-SO-10-121514													
ICS-P28-SO-16-121514													
ICS-P28-SO-32-121514													
ICS-P32-SO-16-121514													
ICS-SO-DUPL3-121514													
ICS-P32-SO-32-121514													
ICS-P18-SO-4-121614													
ICS-P18-SO-10-121614													
ICS-P18-SO-16-121614	**64.3**	**314**	**213**	1710	**3090**	**193**	10,300	**7140**	12,200	**9320**	**47,300** J_E	319	319
ICS-P18-SO-32-121614													
ICS-P19-SO-4-121614													
ICS-P19-SO-10-121614													
ICS-P19-SO-16-121614													

J_E = estimated value due to exceedane of verifiable linear calibration range.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: May 6, 2015

SUBJECT: Data Evaluation/Assessment for 3 Subsurface Soils and 2 Stormwaters Collected during February-March 2015 from the Douglas Property and the Second Avenue Stormwater Collection System, Seattle, WA

Three subsurface soils (composites from 24.5-26') from the construction of monitoring wells using hollow-stem auger on the Douglas Property and two stormwater samples from the Second Avenue stormwater collection system were collected by Dalton, Olmsted & Fuglevand (DOF) staff during February and March, 2015 for chemical characterization. All samples were delivered in two separate delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 26 hours of collection. Samples were received on ice at temperatures between 2.4 and 5.8 °C, and maintained at the project laboratory at 4 °C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. A single trip/transport blank was also submitted and analyzed for VOC's for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Tables SAP-4 and SAP-6 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. pesticides	SW846-M.8081B	SVOC's (PAH's)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. phenols	SW846-M.8041
metals (excl Hg)	SW846-M.6010C & EPA 200.8	Hg (low-level)	SW846-M.7470A
total petroleum HC's	NWTPH-Dx & -G	Cl & SO_4	EPA 300.0

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed (on the same extract) and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the

reporting limits. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C). The attached results table reports only the results for the dichloro- and trichloro-benzenes from the VOC's analyses due to lower reporting limits. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC-SIM (M.8270-SIM) and chlorinated pesticides (by M.8081B) methods, respectively. Hexachlorobenzene (HCB) results were generated and reported by both M.8270D and M.8081B, while only the results generated by M.8081B are retained here due to significantly reduced reporting limits. The lower reporting limit for chlorinated phenols (2,4,6-trichlorophenol and pentachlorophenol) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and strong-acid digestion cleanup steps. NWTPH-G was analyzed by purge & trap and GC/FID. PCB's in soils (by M.8082) was determined by including the extract cleanup options of elemental sulfur (S_x) removal, strong-acid digestion, and silica gel chromatography prior to instrumental analyses.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be acceptable or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. Aroclor 1248 (commercial PCB mixture) was consistently reported for both analytical groups with elevated reporting limits or nondetects due to elevated or busy baselines. Two soil samples required the qualification of Aroclor 1254 results with the "J_P" qualifier code due to variability in the dual column confirmation analyses (> 40RPD [relative percent difference] in dual-column quantitative confirmation for PCB mixtures). Analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of chloromethane and acetone at 1.3 µg/L and 6.3 µg/L, respectively. No chloromethane was detected in any of the project samples. All reported acetone results are qualified with the "J_B" qualifier code to indicate probable bias associated with contributions from laboratory and/or field sampling backgrounds. The trip/transport blank exhibits a similar acetone level (6.7 µg/L) as the laboratory method blank. With the exception of acetone, no results required qualification due to method blanks performance.

A single **trip/transport blank** was generated and submitted for analysis and determination of potential contamination during handling of VOC's samples. Results of these analyses are reported in the attached table. Methylene chloride was reported at 1.6 µg/L, and acetone at 6.7

µg/L in the trip/transport blank. Methylene chloride was not reported in any other project samples, and all reported acetone results are qualified with the "J_B" qualifier code as likely biased high due to sampling/analytical background.

Laboratory control sample (**LCS/LCSD**) recoveries were within specified ranges for most analytes. Matrix spike (**MS**) analyses were only performed for metals and anion analyses; not for organic parameters. MS performance was within acceptance ranges, however, was slightly low at 68% for <u>total</u> antimony (Sb) in ICS-OUTF-SW-032315. The MS for <u>dissolved</u> Sb in the same sample exhibited a recovery of 101%; and because the two (native) sample results (2.8 *vs.* 2.9 µg/L) are essentially the same and the LCS performance was acceptable, no qualification of data was determined to be necessary. LCSD recoveries were reported lower than specified for 2-methylphenol (30%), 4-methylphenol (45%), 2,4-dimethylphenol (10%), and N-nitrosodiphenylamine (39%). The spike recovery was also reported low for 2,4-dimethylphenol (11%) in the LCS. No alkylphenols or N-nitrosodiphenylamine were reported in associated project samples. No results required qualification due to noncompliant LCS/LCSD and MS recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols. Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance; *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses, and trifluorotoluene and bromobenzene used for evaluating TPH-G analytical performance. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM (M.8270D-SIM) utilized the surrogate compounds d_{10}-2-methylnaphthalene, d_{10}-fluoranthene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All surrogate recoveries were within specification. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed occasional [minor] noncompliant responses (CCV RPD compared to initial calibration responses > 20) for chloromethane, chloroethane and acrolein. None of these analytes were reported as detected in any project samples. No results required qualification due to CCV or CCAL performance.

TPH-Dx and TPH-G analyses indicate presence of principally weathered diesel fuel and lubricant/motor oil in the two stormwater samples. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present; as summarized above.

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7		Cadmium 7440-43-9		Calcium 7440-70-2
					%	mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L
ICS-OUTF-SW-032315	stormwater	3/23/2015	nonfiltered	155638-AC32A	-	**728**	**93.4**		**2.9**		**5.0**		0.2 U		**0.6**	**39,500**
ICS-OUTF-SW-032315	stormwater	3/23/2015	nonfiltered	155643-AC33A	-											
ICS-OUTF-SW-032315	stormwater	3/23/2015	field-filtered, 0.45 µm	155641-AC32D	-			**2.8**		**1.6**		0.2 U		**0.2**		
ICS-OUTF-SW-032315	stormwater	3/23/2015	field-filtered, 0.45 µm	155645-AC33C	-											
ICS-MH1-SW-032315	stormwater	3/23/2015	nonfiltered	155639-AC32B	-	**382**	**51.7**		**3.3**		**4.5**		0.2 U		**0.6**	**30,000**
ICS-MH1-SW-032315	stormwater	3/23/2015	nonfiltered	155644-AC33B	-											
ICS-MH1-SW-032315	stormwater	3/23/2015	field-filtered, 0.45 µm	155642-AC32E	-			**3.4**		**1.2**		0.2 U		0.1 U		
ICS-MH1-SW-032315	stormwater	3/23/2015	field-filtered, 0.45 µm	155646-AC33D	-											
Trip Blank	water	3/23/2015	trip/transport blank	155640-AC32C	-											
ICS-MWA-25-SO-021215	soil, hollow-stem auger	2/12/2015	24.5 - 26'	152864-ZW48A	78											
ICS-MWB-25-SO-021215	soil, hollow-stem auger	2/12/2015	24.5 - 26'	152865-ZW48B	66											
ICS-MWC-25-SO-021315	soil, hollow-stem auger	2/13/2015	24.5 - 26'	152866-ZW48C	55											

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Chromium 7440-47-3		Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-OUTF-SW-032315		**16**		**68.9**		**25.2**	**47,600**				**17.6**		0.2 U	**356,000**		**199**	290
ICS-OUTF-SW-032315									**41.5**								
ICS-OUTF-SW-032315	**1.5**		**7.6**		**0.4**					**1.9**		0.2 U			**29**		
ICS-OUTF-SW-032315								20.0 U									
ICS-MH1-SW-032315		**13.7**		**64.8**		**23.6**	**29,100**				**16.6**		0.2 U	**209,000**		**193**	200
ICS-MH1-SW-032315									**38.2**								
ICS-MH1-SW-032315	**1.0**		**7.1**		**0.1**					**1.4**		0.2 U			**17**		
ICS-MH1-SW-032315								20.0 U									
Trip Blank																	
ICS-MWA-25-SO-021215																	
ICS-MWB-25-SO-021215																	
ICS-MWC-25-SO-021315																	

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Total Petroleum Hydrocarbons **			Chloro-methane 74-87-3	Bromo-methane 74-83-9	Vinyl chloride 75-01-4	Chloro-ethane 75-00-3	Methylene chloride 75-09-2	Acetone 67-64-1	Carbon disulfide 75-15-0	1,1-Dichloro-ethene 75-35-4	1,1-Dichloro-ethane 75-34-3	*trans* -1,2-Dichloroethene 156-60-5	*cis* -1,2-Dichloroethene 156-59-2	Chloroform 67-66-3
	Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ICS-OUTF-SW-032315	0.25 U	**0.89**	**1.7**	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**26 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-032315															
ICS-OUTF-SW-032315															
ICS-OUTF-SW-032315															
ICS-MH1-SW-032315	0.25 U	**0.75**	**2.3**	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**22 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-032315															
ICS-MH1-SW-032315															
ICS-MH1-SW-032315															
Trip Blank				0.50 U	1.0 U	0.20 U	0.20 U	**1.6**	**6.7 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWA-25-SO-021215															
ICS-MWB-25-SO-021215															
ICS-MWC-25-SO-021315															

*** bold-typed values resemble corresponding [weathered] petroleum hydrocarbon mixture*

J_B = estimate; associated value is likely biased high due to contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-OUTF-SW-032315	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-OUTF-SW-032315															
ICS-OUTF-SW-032315															
ICS-OUTF-SW-032315															
ICS-MH1-SW-032315	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MH1-SW-032315															
ICS-MH1-SW-032315															
ICS-MH1-SW-032315															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MWA-25-SO-021215															
ICS-MWB-25-SO-021215															
ICS-MWC-25-SO-021315															

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-OUTF-SW-032315	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-OUTF-SW-032315																
ICS-OUTF-SW-032315																
ICS-OUTF-SW-032315																
ICS-MH1-SW-032315	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MH1-SW-032315																
ICS-MH1-SW-032315																
ICS-MH1-SW-032315																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MWA-25-SO-021215																
ICS-MWB-25-SO-021215																
ICS-MWC-25-SO-021315																

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	Hexachloro-butadiene 87-68-3 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-OUTF-SW-032315	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-032315																
ICS-OUTF-SW-032315																
ICS-OUTF-SW-032315																
ICS-MH1-SW-032315	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-032315																
ICS-MH1-SW-032315																
ICS-MH1-SW-032315																
Trip Blank	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWA-25-SO-021215																
ICS-MWB-25-SO-021215																
ICS-MWC-25-SO-021315																

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L
ICS-OUTF-SW-032315	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-OUTF-SW-032315													
ICS-OUTF-SW-032315													
ICS-OUTF-SW-032315													
ICS-MH1-SW-032315	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-MH1-SW-032315													
ICS-MH1-SW-032315													
ICS-MH1-SW-032315													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-MWA-25-SO-021215													
ICS-MWB-25-SO-021215													
ICS-MWC-25-SO-021315													

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L
ICS-OUTF-SW-032315	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-OUTF-SW-032315													
ICS-OUTF-SW-032315													
ICS-OUTF-SW-032315													
ICS-MH1-SW-032315	1.0 U	1.0 U	3.0 U	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-MH1-SW-032315													
ICS-MH1-SW-032315													
ICS-MH1-SW-032315													
Trip Blank													
ICS-MWA-25-SO-021215													
ICS-MWB-25-SO-021215													
ICS-MWC-25-SO-021315													

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L
ICS-OUTF-SW-032315	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	**0.06 J**	1.0 U	0.10 U	1.0 U	**0.08 J**
ICS-OUTF-SW-032315														
ICS-OUTF-SW-032315														
ICS-OUTF-SW-032315														
ICS-MH1-SW-032315	0.10 U	1.0 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	**0.11**
ICS-MH1-SW-032315														
ICS-MH1-SW-032315														
ICS-MH1-SW-032315														
Trip Blank														
ICS-MWA-25-SO-021215														
ICS-MWB-25-SO-021215														
ICS-MWC-25-SO-021315														

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-OUTF-SW-032315	**0.11**	1.0 U	0.10 U	**2.2 J**	**0.06 J**	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	**0.05 J**	0.10 U	0.30
ICS-OUTF-SW-032315													
ICS-OUTF-SW-032315													
ICS-OUTF-SW-032315													
ICS-MH1-SW-032315	**0.12**	1.0 U	0.10 U	3.0 U	**0.07 J**	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30
ICS-MH1-SW-032315													
ICS-MH1-SW-032315													
ICS-MH1-SW-032315													
Trip Blank													
ICS-MWA-25-SO-021215													
ICS-MWB-25-SO-021215													
ICS-MWC-25-SO-021315													

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-OUTF-SW-032315	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.12 U
ICS-OUTF-SW-032315																
ICS-OUTF-SW-032315																
ICS-OUTF-SW-032315																
ICS-MH1-SW-032315	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.12 U
ICS-MH1-SW-032315																
ICS-MH1-SW-032315																
ICS-MH1-SW-032315																
Trip Blank																
ICS-MWA-25-SO-021215																
ICS-MWB-25-SO-021215																
ICS-MWC-25-SO-021315																

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater, March 2015, and Douglas Property Subsurface Soils, February 2015, Analyses

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-OUTF-SW-032315	0.025 U	0.025 U	0.012 U	0.012 U	1.2 U	0.025 U	0.025 U	0.010 U	0.010 U	0.015 U	**0.028**	**0.027**	0.010 U	0.010 U	0.055
ICS-OUTF-SW-032315															
ICS-OUTF-SW-032315															
ICS-OUTF-SW-032315															
ICS-MH1-SW-032315	0.025 U	0.025 U	0.012 U	0.012 U	1.2 U	0.025 U	0.025 U	0.010 U	0.010 U	0.020 U	**0.039**	**0.04**	0.010 U	0.010 U	0.079
ICS-MH1-SW-032315															
ICS-MH1-SW-032315															
ICS-MH1-SW-032315															
Trip Blank															
								µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-MWA-25-SO-021215								4.0 U	4.0 U	12 U	**23**	**8.4**	4.0 U	4.0 U	31
ICS-MWB-25-SO-021215								3.9 U	3.9 U	39 U	**14 J_P**	**6.3**	3.9 U	3.9 U	20
ICS-MWC-25-SO-021315								3.9 U	3.9 U	5.9 U	**14 J_P**	**3.7 J**	3.9 U	3.9 U	18

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8082).
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: July 15, 2015

SUBJECT: Data Evaluation/Assessment for 9 Subsurface Soils and 6 Groundwaters Collected from Soil Push-Probes during June 2015 from the ICS / [former] NW Cooperage Site, Seattle, WA

Nine subsurface soil composites and six groundwater samples from soil push-probes were collected and submitted for chemical characterization by Dalton, Olmsted & Fuglevand (DOF) staff during June 8-9, 2015. All samples were delivered in four separate delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 22 hours of collection. Samples were received on ice at temperatures between 2.1 and 5.5 °C, and maintained at the project laboratory at 4 °C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. A single trip/transport blank was submitted and analyzed for VOC's, and two trip/transport blanks were analyzed for TPH-G for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Tables SAP-4 and SAP-6 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. phenols in H_2O	SW846-M.8041	SVOC's (PAH's in H_2O & selected analytes in soils)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. pesticides	SW846-M.8081B
metals (excl Hg)	SW846-M.6010C & EPA 200.8	Hg (low-level H_2O)	SW846-M.7470A
		Hg (soils)	SW846-M.7471A
total petroleum HC's	NWTPH-Dx & -G	Cl & SO_4	EPA 300.0
		Hexavalent Cr (VI)	SW846-M.7196A

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed (on the same

extract, in the case of groundwaters) and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. Method 8270-SIM was also performed on separate soil extracts to improve lower reporting limits for dichlorobenzenes, 1,2,4-trichlorobenzene, butylbenzylphthalate, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine, benzyl alcohol and pentachlorophenol. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C) for both groundwaters and soils. The attached results table reports only the results for the dichloro- and trichloro-benzenes in groundwaters from the VOC's analyses due to lower reporting limits. Soils dichlorobenzenes were reported from the VOC's analyses and 1,2,4-trichlorobenzene was reported from the SVOC's analyses (M.8270-SIM) due to lower reporting limits. Groundwater naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC's (M.8270-SIM) and chlorinated pesticides (by M.8081B) methods, respectively. Naphthalene in soils by SW846-M.8260C (VOA's) exhibited lower reporting limits than by the SVOC's method (M.8270D). Hexachlorobenzene (HCB) results were generated and reported by both M.8270D and M.8081B, while only the results generated by M.8081B are retained here due to significantly reduced reporting limits. Chlorinated pesticides (including HCBD and HCB by M.8081B) analyses were supplemented with extract cleanup by GPC (gel permeation chromatography). The lower reporting limit for chlorinated phenols in water (2,4,6-trichlorophenol and pentachlorophenol in H_2O) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and strong-acid digestion cleanup steps. NWTPH-G was analyzed by purge & trap and GC/FID. PCB's in soils (by M.8082) was determined by including the extract cleanup options of elemental sulfur (S_x) removal, strong-acid digestion, and silica gel chromatography prior to instrumental analyses. Hexavalent chromium (Cr[VI]) results (by SW846-M.7196A) were reported significantly greater than either the dissolved or the total chromium results (up to 15x greater in some cases) in groundwaters, indicating high background interference, since the results can be no greater than the dissolved chromium values. Cr(VI) results were thus determined to be unusable and are rejected with the "R" qualifier code.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be acceptable or within SAP specifications. A reextraction and reanalysis of SVOC's in water for ICS-P35-W-20-060815 was performed after 10 days holding time (recommended maximum holding time is 7 days) due to the initial analysis exhibiting low surrogate recoveries. The second analysis exhibited acceptable surrogate recoveries, and both the initial and second analyses revealed identical SVOC analyte results.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. Aroclor 1248 (commercial PCB mixture) was reported for ICS-P34-SO-4-060915 with an elevated reporting limit or nondetect due to an elevated or busy baseline. ICS-P34-SO-4-060915 also required the

qualification of Aroclor 1254 results with the "J_P" qualifier code due to variability in the dual column confirmation analyses (> 40RPD [relative percent difference] in dual-column quantitative confirmation for PCB mixtures). Chromatographic or co-elution interference was apparent for hexachlorobenzene (HCB) in ICS-P36-SO-10-060815 and ICS-P36-SO-16-060815 resulting in an elevated reporting limit for nondetects. Several chlorinated pesticide analytes in ICS-P34-SO-4-060915 exhibited elevated reporting limits likely due to the presence of PCB's reported as Aroclors 1254 and 1260. Two BHC analytes reported in the M.8081B analyses exhibited elevated reporting limits due to the presence of chemical interferences. Analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of bromomethane, 1,2,4-trichlorobenzene and naphthalene at 0.8 µg/kg, 0.6 µg/kg and 0.5 µg/kg, respectively, during VOC's analyses. None of these analytes were detected in any of the project samples. SVOC method blank analyses reported diethylphthalate, anthracene and fluoranthene at 21 µg/kg, 10 µg/kg and 8.0 µg/kg, respectively, during soils analyses. No anthracene was detected in soil extracts. Only three diethylphthalate values and one fluoranthene result were within sufficient range of the method blank values to require qualification with the "J_B" qualifier code as potentially impacted by contributions from sampling/laboratory backgrounds. With the exception of three diethylphthalate and one fluoranthene result in soils, no results required qualification due to method blanks performance.

A single **trip/transport blank** was generated and submitted for analysis and determination of potential contamination during handling of groundwater VOC's samples, and two trip/transport blanks were submitted and analyzed for TPH-G in groundwaters. Results of these analyses are reported in the attached table. No target analytes were detected in trip/transport blanks.

Laboratory control samples (**LCS/LCSD**) were analyzed for all sample matrices and parameter groups, and recoveries were within specified ranges for most analytes. NWTPH-Dx analyses for TPH-Dx in solids/soils showed a slightly low recovery at 55.1% in an LCS (associated LCSD recovery was acceptable at 61.5%), and benzyl alcohol by SW846-M.8270D and SW846-M.8270D-SIM showed less-than-specified recoveries in the LCSD's during solids/soils analyses (11.4% and 10.2%; associated LCS recoveries were within acceptable limits of $\geq$ 39%). Matrix spike (**MS**) analyses were performed for metals, including hexavalent chromium, in groundwaters, and SVOC's, chlorinated pesticides, PCB's, TPH-Dx, and metals in soils. MS performance was generally within acceptance ranges, wih the following exceptions. Total and dissolved silver recoveries in ICS-P34-W-10-060915 exhibited lower-than-specified recoveries (56% and 61%) likely due to presence of [native] chloride in the groundwater (AgCl has extremely limited solubility in aqueous solution). Silver LCS results are within acceptable limits. No qualification of aqueous silver results is required. Hexavalent chromium (Cr[VI]) matrix spike recoveries (in ICS-P36-W-10-060815) are essentially zero, whereas, the results of the [certified] reference material are near 100%. Hexavalent chromium results have been previously determined to be unusable due to high background interference (positive bias) yielding false positive results. Benzyl alcohol matrix spike and matrix spike duplicate recoveries

in soil measured by SW846-M.8270D and SW846-M.8270-SIM in ICS-P35-SO-16-060815 are 0%. LCS/LCSD benzyl alcohol recoveries in soil, as noted above, are also determined to be relatively low. Consequently, all soil benzyl alcohol results, despite the results reported as all nondetects, are determined to be unusable and rejected with the "R" qualifier code. Results for benzyl alcohol in water are acceptable and unaffected by the soils/solids data quality (benzyl alcohol in water LCS/LCSD = 72/97% recovery). Endosulfan sulfate soil matrix spike and matrix spike duplicate recoveries in ICS-P36-SO-4-060815 are 13% and 20%, respectively. All soil results are reported as nondetected for endosulfan sulfate and all associated surrogate recoveries are determined to be acceptable; thus, no soil endosulfan sulfate results required qualification. Recovery for TPH-Dx MS/MSD in ICS-P35-SO-4-060815 was reported lower than specified at 51/57%. The associated surrogate compound (*o*-terphenyl) recovery was in the specified range, and no TPH-Dx results required qualification. Soil antimony matrix spike recovery in ICS-P35-SO-4-060815 is reported lower-than-specified at 17.5%. The associated LCS recovery for antimony in solids is reported at 101%. This behavior for Sb is typical due to formation of Sb-SiO_4 complexes in the presence of soil minerals; however, no detections for Sb are reported and no qualification of results is required for antimony in soils.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols. Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance; *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses, and trifluorotoluene and bromobenzene used for evaluating TPH-G analytical performance. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM (M.8270D-SIM) utilized the surrogate compounds d_{10}-2-methylnaphthalene, d_{10}-fluoranthene and d_{14}-dibenz(a,h)anthracene. Selected organic parameters by GC/MS-SIM (M.8270D-SIM) utilized the two surrogate compounds 2-fluorophenol and d_{14}-*p*-terphenyl. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All SVOC surrogate recoveries for ICS-P35-W-20-060815 by SW846-M.8270D were low and in the range of 4.8 – 8.7%. A reextraction and reanalysis of the groundwater sample outside the recommended maximum holding time by 3 days (total holding time of 10 days) yielded surrogate recoveries within the acceptance range and the same analyte results as for the initial analyses. The SVOC sample results for ICS-P35-W-20-060815 are determined to be acceptable and reported without qualification. The surrogate, DCBP, in the chlorinated pesticides analysis of ICS-P36-W-20-060815 reported less than specified at 25% (specified acceptance range = 30 – 160%). The associated TCMX recovery (second surrogate compound) was well within acceptance limits, which precludes the requirement for qualification of sample pesticide results. The SVOC surrogate, d_{14}-*p*-terphenyl, in soil samples ICS-P34-SO-16-060915 and ICS-P36-SO-4-060815 exhibited recoveries slightly greater than the specified upper limit of 120%. All other associated surrogate recoveries in the two soil samples were acceptable; thus, no associated SVOC results required qualification. The PCB's analytical surrogate compound, DCBP, in soil sample ICS-P35 –SO-4-060815 exhibited a recovery slightly greater (129%) than the specified upper limit of 126%. The associated second surrogate

compound, TCMX, exhibited acceptable performance. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed occasional [minor] noncompliant responses (CCV RPD compared to initial calibration responses > 20) for benzoic acid in water, and acetone, bromoform, benzyl alcohol and N-nitrosodiphenylamine in soils/solids. All positive hits/detections for these analytes in the respective matrices were qualified as estimates with the "J_Q" qualifier code.

TPH-Dx and TPH-G analyses indicate presence of relatively little, if any, detectable gasoline, diesel fuel or lubricant/motor oil in the groundwater and soil samples analyzed. Only one sample showed presence of any identifiable hydrocarbon mixture; motor oil-type lubricant in soil ICS-P34-SO-4-060915 at 67 mg/kg.

Sample results reported here are determined to be in general compliance with method and SAP requirements, with the exceptions noted above. All reported data (attached) with the associated qualifiers are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7		Cadmium 7440-43-9		Calcium 7440-70-2
					%	mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L
ICS-P36-W-10-060815	GW-pushprobe	6/8/2015	nonfiltered	1510665-AHK9A	-	**1890**	**0.7**		0.5 U		**2.7**		0.5 U		0.2 U	**264,000**
ICS-P36-W-10-060815	GW-pushprobe	6/8/2015	nonfiltered	1510674-AHL2A	-											
ICS-P36-W-10-060815	GW-pushprobe	6/8/2015	field-filtered, 0.45 µm	1510669-AHK9E	-			0.5 U		**1.3**		0.5 U		0.2 U		
ICS-P36-W-10-060815	GW-pushprobe	6/8/2015	field-filtered, 0.45 µm	1510677-AHL2D	-											
ICS-P36-W-20-060815	GW-pushprobe	6/8/2015	nonfiltered	1510666-AHK9B	-	**1830**	**0.6**		0.5 U		**3.0**		0.5 U		0.2 U	**176,000**
ICS-P36-W-20-060815	GW-pushprobe	6/8/2015	nonfiltered	1510675-AHL2B	-											
ICS-P36-W-20-060815	GW-pushprobe	6/8/2015	field-filtered, 0.45 µm	1510670-AHK9F	-			0.5 U		**0.5**		0.5 U		0.2 U		
ICS-P36-W-20-060815	GW-pushprobe	6/8/2015	field-filtered, 0.45 µm	1510678-AHL2E	-											
ICS-P35-W-20-060815	GW-pushprobe	6/8/2015	nonfiltered	1510667-AHK9C	-	**2440**	**272**		0.5 U		**10.8**		**0.6**		0.2 U	**148,000**
ICS-P35-W-20-060815	GW-pushprobe	6/8/2015	nonfiltered	1510676-AHL2C	-											
ICS-P35-W-20-060815	GW-pushprobe	6/8/2015	field-filtered, 0.45 µm	1510671-AHK9G	-			0.5 U		**2.0**		0.5 U		0.2 U		
ICS-P35-W-20-060815	GW-pushprobe	6/8/2015	field-filtered, 0.45 µm	1510679-AHL2F	-											
Trip Blank	water	6/8/2015	trip/transport blank	1510668-AHK9D	-											
ICS-P34-W-10-060915	GW-pushprobe	6/9/2015	nonfiltered	1510734-AHM8A	-	**59.3**	**27.3**		0.2 U		**0.9**		0.2 U		0.1 U	**11,100**
ICS-P34-W-10-060915	GW-pushprobe	6/9/2015	nonfiltered	1510741-AHM9A	-											
ICS-P34-W-10-060915	GW-pushprobe	6/9/2015	field-filtered, 0.45 µm	1510738-AHM8E	-			0.2 U		**0.3**		0.2 U		0.1 U		
ICS-P34-W-10-060915	GW-pushprobe	6/9/2015	field-filtered, 0.45 µm	1510744-AHM9D	-											
ICS-P34-W-20-060915	GW-pushprobe	6/9/2015	nonfiltered	1510735-AHM8B	-	**1950**	**55.3**		0.5 U		**0.6**		0.5 U		0.2 U	**46,200**
ICS-P34-W-20-060915	GW-pushprobe	6/9/2015	nonfiltered	1510742-AHM9B	-											
ICS-P34-W-20-060915	GW-pushprobe	6/9/2015	field-filtered, 0.45 µm	1510739-AHM8F	-			0.5 U		0.5 U		0.5 U		0.2 U		
ICS-P34-W-20-060915	GW-pushprobe	6/9/2015	field-filtered, 0.45 µm	1510745-AHM9E	-											
ICS-P35-W-10-060915	GW-pushprobe	6/9/2015	nonfiltered	1510736-AHM8C	-	**2120**	**326**		0.5 U		**1.0**		0.5 U		0.2 U	**160,000**
ICS-P35-W-10-060915	GW-pushprobe	6/9/2015	nonfiltered	1510743-AHM9C	-											
ICS-P35-W-10-060915	GW-pushprobe	6/9/2015	field-filtered, 0.45 µm	1510740-AHM8G	-			0.5 U		**0.9**		0.5 U		0.2 U		
ICS-P35-W-10-060915	GW-pushprobe	6/9/2015	field-filtered, 0.45 µm	1510746-AHM9F	-											
Trip Blank	water	6/9/2015	trip/transport blank	1510737-AHM8D	-											
									mg/kg, dry		mg/kg, dry		mg/kg, dry		mg/kg, dry	
ICS-P35-SO-4-060815	soil-pushprobe	6/8/2015	3 - 5'	1510685-AHL3A	94				0.2 U		**3.0**		0.2 U		**0.2**	
ICS-P35-SO-10-060815	soil-pushprobe	6/8/2015	9 - 11'	1510686-AHL3B	71				0.3 U		**1.4**		0.3 U		0.1 U	
ICS-P35-SO-16-060815	soil-pushprobe	6/8/2015	15 - 17'	1510687-AHL3C	72				0.3 U		**1.7**		0.3 U		**0.2**	
ICS-P36-SO-4-060815	soil-pushprobe	6/8/2015	3 - 4'	1510688-AHL3D	82				0.3 U		**3.5**		**0.3**		**0.3**	
ICS-P36-SO-10-060815	soil-pushprobe	6/8/2015	10 - 12'	1510689-AHL3E	71				0.3 U		**3.2**		0.3 U		0.1 U	
ICS-P36-SO-16-060815	soil-pushprobe	6/8/2015	15 - 17'	1510690-AHL3F	74				0.3 U		**4.6**		**0.3**		0.1 U	
ICS-P34-SO-4-060915	soil-pushprobe	6/9/2015	3 - 5'	1510747-AHN0A	86				0.2 U		**8.0**		**0.3**		**0.4**	
ICS-P34-SO-10-060915	soil-pushprobe	6/9/2015	9 - 11'	1510748-AHN0B	73				0.3 U		**2.3**		**0.3**		0.1 U	
ICS-P34-SO-16-060915	soil-pushprobe	6/9/2015	15 - 17'	1510749-AHN0C	74				0.3 U		**1.9**		0.3 U		**0.2**	

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Chromium 7440-47-3 diss. µg/L	Chromium 7440-47-3 total µg/L	Chromium (VI) diss. µg/L	Copper 7440-50-8 diss. µg/L	Copper 7440-50-8 total µg/L	Lead 7439-92-1 diss. µg/L	Lead 7439-92-1 total µg/L	Magnesium 7439-95-4 total µg/L	Mercury 7439-97-6 diss. ng/L	Mercury 7439-97-6 total ng/L	Nickel 7440-02-0 diss. µg/L	Nickel 7440-02-0 total µg/L	Silver 7440-22-4 diss. µg/L	Silver 7440-22-4 total µg/L	Sodium 7440-23-5 total µg/L	Zinc 7440-66-6 diss. µg/L	Zinc 7440-66-6 total µg/L	Hardness mg-$CaCO_3$/L
ICS-P36-W-10-060815		**5**	R		**9**		**0.8**	**210,000**				**5**		0.5 U	**792,000**		10 U	1,500,000
ICS-P36-W-10-060815										20.0 U								
ICS-P36-W-10-060815	**2**			1 U		0.2 U					**2**		0.5 U			10 U		
ICS-P36-W-10-060815									20.0 U									
ICS-P36-W-20-060815		**8**	R		**20**		**2.1**	**153,000**				**8**		0.5 U	**959,000**		**20**	1,100,000
ICS-P36-W-20-060815										20.0 U								
ICS-P36-W-20-060815	1 U			1 U		0.2 U					**2**		0.5 U			10 U		
ICS-P36-W-20-060815									20.0 U									
ICS-P35-W-20-060815		**32**	R		**69**		**8.5**	**308,000**				**33**		0.5 U	**1,170,000**		**80**	1,600,000
ICS-P35-W-20-060815										**64.6**								
ICS-P35-W-20-060815	**6**			**10**		**1.4**					**11**		0.5 U			**30**		
ICS-P35-W-20-060815									20.0 U									
Trip Blank																		
ICS-P34-W-10-060915		**1.8**	R		**6.6**		**2.1**	**25,600**				**1.3**		0.2 U	**97,800**		**4**	130,000
ICS-P34-W-10-060915										20.0 U								
ICS-P34-W-10-060915	**0.8**			0.5 U		0.1 U					**0.9**		0.2 U			4 U		
ICS-P34-W-10-060915									20.0 U									
ICS-P34-W-20-060915		**3**	R		1 U		**0.4**	**96,100**				1 U		0.5 U	**1,170,000**		10 U	510,000
ICS-P34-W-20-060915										20.0 U								
ICS-P34-W-20-060915	**3**			1 U		0.2 U					**1**		0.5 U			10 U		
ICS-P34-W-20-060915									20.0 U									
ICS-P35-W-10-060915		1 U	R		1 U		0.2 U	**141,000**				**2**		0.5 U	**1,150,000**		10 U	980,000
ICS-P35-W-10-060915										20.0 U								
ICS-P35-W-10-060915	1 U			1 U		0.2 U					**2**		0.5 U			10 U		
ICS-P35-W-10-060915									20.0 U									
Trip Blank																		

	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-P35-SO-4-060815	**9.0**	**10.4**	**1.5**	0.03 U	**8.4**	0.2 U	**31**
ICS-P35-SO-10-060815	**14.6**	**24.1**	**2.5**	0.03 U	**9.7**	0.3 U	**32**
ICS-P35-SO-16-060815	**10.4**	**17.7**	**2.2**	0.03 U	**8.5**	0.3 U	**23**
ICS-P36-SO-4-060815	**18.2**	**27.7**	**7.0**	**0.06**	**15.7**	0.3 U	**67**
ICS-P36-SO-10-060815	**12.9**	**22.8**	**2.9**	**0.03**	**10.3**	0.3 U	**29**
ICS-P36-SO-16-060815	**17.1**	**24.8**	**3.3**	**0.04**	**15.1**	0.3 U	**35**
ICS-P34-SO-4-060915	**41.8**	**34.8**	**123**	**0.13**	**52.2**	0.2 U	**80**
ICS-P34-SO-10-060915	**16.6**	**21.6**	**2.8**	**0.05**	**14.2**	0.3 U	**36**
ICS-P34-SO-16-060915	**10.4**	**17.7**	**2.0**	0.03 U	**8.0**	0.3 U	**24**

R = results rejected due to high background interference.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans* -1,2-Dichloroethene 156-60-5 µg/L	*cis* -1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-P36-W-10-060815	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-20-060815	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P35-W-20-060815	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**1.2**	0.20 U	0.20 U	0.20 U
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
Trip Blank	0.25 U														
ICS-P34-W-10-060915	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-20-060915	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.27**	0.20 U	0.20 U	0.20 U
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P35-W-10-060915	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	mg/kg, dry	mg/kg, dry	mg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	8.0 U	5.3 U	11 U	1.7 U	1.7 U	1.7 U	1.7 U	**3.6**	**14 J_Q**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P35-SO-10-060815	11 U	7.0 U	14 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**25 J_Q**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-16-060815	9.8 U	6.9 U	14 U	1.5 U	1.5 U	1.5 U	1.5 U	**2.5 J**	**31 J_Q**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-4-060815	13 U	6.0 U	12 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	**17 J_Q**	**1.9**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-10-060815	12 U	7.0 U	14 U	1.6 U	1.6 U	1.6 U	1.6 U	**3.7**	**43 J_Q**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P36-SO-16-060815	11 U	6.7 U	13 U	1.7 U	1.7 U	1.7 U	1.7 U	**2.4 J**	**35 J_Q**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P34-SO-4-060915	8.0 U	16	**67**	1.8 U	1.8 U	1.8 U	1.8 U	3.7 U	**33 J_Q**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P34-SO-10-060915	12 U	6.8 U	14 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	**52 J_Q**	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
ICS-P34-SO-16-060915	11 U	6.6 U	19	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**29 J_Q**	**3.2**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

** *bold-typed values resemble corresponding [weathered] petroleum hydrocarbon mixture*

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-P36-W-10-060815	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-20-060815	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P35-W-20-060815	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
Trip Blank															
ICS-P34-W-10-060915	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-20-060915	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P35-W-10-060915	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.5 U	8.5 U
ICS-P35-SO-10-060815	1.8 U	8.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	8.9 U	8.9 U
ICS-P35-SO-16-060815	1.5 U	**4.3 J**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.5 U	7.5 U
ICS-P36-SO-4-060815	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**0.8 J**	1.5 U	1.5 U	7.4 U	7.4 U
ICS-P36-SO-10-060815	1.6 U	**4.2 J**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.9 U	7.9 U
ICS-P36-SO-16-060815	1.7 U	8.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.6 U	8.6 U
ICS-P34-SO-4-060915	1.8 U	9.2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.2 U	9.2 U
ICS-P34-SO-10-060915	2.1 U	**6.2 J**	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	10 U	10 U
ICS-P34-SO-16-060915	1.8 U	9.0 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	9.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-P36-W-10-060815	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P36-W-10-060815																
ICS-P36-W-10-060815																
ICS-P36-W-10-060815																
ICS-P36-W-20-060815	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P36-W-20-060815																
ICS-P36-W-20-060815																
ICS-P36-W-20-060815																
ICS-P35-W-20-060815	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P35-W-20-060815																
ICS-P35-W-20-060815																
ICS-P35-W-20-060815																
Trip Blank																
ICS-P34-W-10-060915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P34-W-10-060915																
ICS-P34-W-10-060915																
ICS-P34-W-10-060915																
ICS-P34-W-20-060915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P34-W-20-060915																
ICS-P34-W-20-060915																
ICS-P34-W-20-060915																
ICS-P35-W-10-060915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-P35-W-10-060915																
ICS-P35-W-10-060915																
ICS-P35-W-10-060915																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	85 U	3.4 U	1.7 U
ICS-P35-SO-10-060815	1.8 U	1.8 U	**1.0 J**	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	89 U	3.6 U	1.8 U
ICS-P35-SO-16-060815	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	75 U	3.0 U	1.5 U
ICS-P36-SO-4-060815	1.5 U	1.5 U	**1.4 J**	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	74 U	3.0 U	1.5 U
ICS-P36-SO-10-060815	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	79 U	3.2 U	1.6 U
ICS-P36-SO-16-060815	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	86 U	3.4 U	1.7 U
ICS-P34-SO-4-060915	1.8 U	1.8 U	**1.7 J**	1.8 U	1.8 U	1.8 U	1.8 U	3.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	92 U	3.7 U	1.8 U
ICS-P34-SO-10-060915	2.1 U	2.1 U	**1.2 J**	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	100 U	4.2 U	2.1 U
ICS-P34-SO-16-060915	1.8 U	1.8 U	**1.0 J**	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	90 U	3.6 U	1.8 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-P36-W-10-060815	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-20-060815	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P35-W-20-060815	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
Trip Blank															
ICS-P34-W-10-060915	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-20-060915	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P35-W-10-060915	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	1.7 U	1.7 U	3.4 U	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P35-SO-10-060815	1.8 U	1.8 U	3.6 U	8.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P35-SO-16-060815	1.5 U	1.5 U	3.0 U	7.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-4-060815	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-P36-SO-10-060815	1.6 U	1.6 U	3.2 U	7.9 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-P36-SO-16-060815	1.7 U	1.7 U	3.4 U	8.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P34-SO-4-060915	1.8 U	1.8 U	3.7 U	9.2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P34-SO-10-060915	2.1 U	2.1 U	4.2 U	10 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
ICS-P34-SO-16-060915	1.8 U	1.8 U	3.6 U	9.0 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	*tert*-Butyl-benzene 98-06-6 µg/L	*sec*-Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	Naphthalene 91-20-3 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L
ICS-P36-W-10-060815	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P36-W-10-060815														
ICS-P36-W-10-060815														
ICS-P36-W-10-060815														
ICS-P36-W-20-060815	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P36-W-20-060815														
ICS-P36-W-20-060815														
ICS-P36-W-20-060815														
ICS-P35-W-20-060815	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P35-W-20-060815														
ICS-P35-W-20-060815														
ICS-P35-W-20-060815														
Trip Blank														
ICS-P34-W-10-060915	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P34-W-10-060915														
ICS-P34-W-10-060915														
ICS-P34-W-10-060915														
ICS-P34-W-20-060915	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P34-W-20-060915														
ICS-P34-W-20-060915														
ICS-P34-W-20-060915														
ICS-P35-W-10-060915	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
ICS-P35-W-10-060915														
ICS-P35-W-10-060915														
ICS-P35-W-10-060915														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U							
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	1.7 U	1.7 U	1.7 U	1.7 U	*(see SVOC's)*	8.5 U	8.5 U	**17 J**	19 U	R	4.8 U	19 U	19 U	19 U
ICS-P35-SO-10-060815	1.8 U	1.8 U	1.8 U	1.8 U	*(see SVOC's)*	8.9 U	8.9 U	**14 J**	19 U	R	4.7 U	19 U	19 U	19 U
ICS-P35-SO-16-060815	1.5 U	1.5 U	1.5 U	1.5 U	*(see SVOC's)*	7.5 U	7.5 U	**18 J**	20 U	R	4.9 U	20 U	20 U	20 U
ICS-P36-SO-4-060815	1.5 U	1.5 U	1.5 U	1.5 U	*(see SVOC's)*	7.4 U	7.4 U	**14 J**	19 U	R	4.7 U	19 U	19 U	19 U
ICS-P36-SO-10-060815	1.6 U	1.6 U	1.6 U	1.6 U	*(see SVOC's)*	7.9 U	7.9 U	**25**	19 U	R	4.7 U	19 U	19 U	19 U
ICS-P36-SO-16-060815	1.7 U	1.7 U	1.7 U	1.7 U	*(see SVOC's)*	8.6 U	8.6 U	**11 J**	19 U	R	4.8 U	19 U	19 U	19 U
ICS-P34-SO-4-060915	1.8 U	1.8 U	1.8 U	1.8 U	*(see SVOC's)*	*(see SVOC's)*	9.2 U	19 U	19 U	R	4.8 U	19 U	19 U	19 U
ICS-P34-SO-10-060915	2.1 U	2.1 U	2.1 U	2.1 U	*(see SVOC's)*	10 U	10 U	**20**	20 U	R	4.9 U	20 U	20 U	20 U
ICS-P34-SO-16-060915	1.8 U	1.8 U	1.8 U	1.8 U	*(see SVOC's)*	9.0 U	9.0 U	**14 J**	19 U	R	4.8 U	19 U	19 U	19 U

J = estimate associated with value less than the verifiable lower quantitation limit.
R = results rejected due to low MS and LCS recoveries.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L
ICS-P36-W-10-060815	1.0 U	1.0 U	3.0 U	**5.5 J**	3.0 U	*(see VOC's)*	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P36-W-10-060815														
ICS-P36-W-10-060815														
ICS-P36-W-10-060815														
ICS-P36-W-20-060815	1.0 U	1.0 U	3.0 U	20 U	3.0 U	*(see VOC's)*	**0.06 J**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P36-W-20-060815														
ICS-P36-W-20-060815														
ICS-P36-W-20-060815														
ICS-P35-W-20-060815	1.0 U	1.0 U	3.0 U	**4.8 J**	3.0 U	*(see VOC's)*	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P35-W-20-060815														
ICS-P35-W-20-060815														
ICS-P35-W-20-060815														
Trip Blank														
ICS-P34-W-10-060915	1.0 U	1.0 U	3.0 U	20 U	3.0 U	*(see VOC's)*	**0.05 J**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P34-W-10-060915														
ICS-P34-W-10-060915														
ICS-P34-W-10-060915														
ICS-P34-W-20-060915	1.0 U	1.0 U	3.0 U	20 U	3.0 U	*(see VOC's)*	**0.06 J**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P34-W-20-060915														
ICS-P34-W-20-060915														
ICS-P34-W-20-060915														
ICS-P35-W-10-060915	1.0 U	1.0 U	3.0 U	20 U	3.0 U	*(see VOC's)*	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U
ICS-P35-W-10-060915														
ICS-P35-W-10-060915														
ICS-P35-W-10-060915														
Trip Blank														
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	19 U	19 U	24 U	190 U	96 U	4.8 U	*(see VOC's)*	96 U	19 U	96 U	96 U	19 U	19 U	19 U
ICS-P35-SO-10-060815	19 U	19 U	23 U	**88 J**	93 U	4.7 U	*(see VOC's)*	93 U	19 U	93 U	93 U	19 U	19 U	19 U
ICS-P35-SO-16-060815	20 U	20 U	24 U	**90 J**	98 U	4.9 U	*(see VOC's)*	98 U	20 U	98 U	98 U	20 U	20 U	20 U
ICS-P36-SO-4-060815	19 U	19 U	23 U	**69 J**	94 U	4.7 U	*(see VOC's)*	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P36-SO-10-060815	19 U	19 U	24 U	**180 J**	94 U	4.7 U	*(see VOC's)*	94 U	19 U	94 U	94 U	19 U	19 U	19 U
ICS-P36-SO-16-060815	19 U	19 U	24 U	**66 J**	95 U	4.8 U	*(see VOC's)*	95 U	19 U	95 U	95 U	19 U	19 U	19 U
ICS-P34-SO-4-060915	19 U	19 U	24 U	190 U	95 U	4.8 U	**8.6 J**	95 U	**7.6 J**	95 U	95 U	19 U	19 U	**8.6 J**
ICS-P34-SO-10-060915	20 U	20 U	24 U	**130 J**	98 U	4.9 U	*(see VOC's)*	98 U	20 U	98 U	98 U	20 U	20 U	20 U
ICS-P34-SO-16-060915	19 U	19 U	24 U	**83 J**	97 U	4.8 U	*(see VOC's)*	97 U	19 U	97 U	97 U	19 U	19 U	19 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L
ICS-P36-W-10-060815	0.10 U	0.10 U	3.0 U	3.0 U	**2.2**	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P36-W-10-060815														
ICS-P36-W-10-060815														
ICS-P36-W-10-060815														
ICS-P36-W-20-060815	0.10 U	0.10 U	3.0 U	3.0 U	**4.4**	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P36-W-20-060815														
ICS-P36-W-20-060815														
ICS-P36-W-20-060815														
ICS-P35-W-20-060815	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P35-W-20-060815														
ICS-P35-W-20-060815														
ICS-P35-W-20-060815														
Trip Blank														
ICS-P34-W-10-060915	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	**0.34**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U
ICS-P34-W-10-060915														
ICS-P34-W-10-060915														
ICS-P34-W-10-060915														
ICS-P34-W-20-060915	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	1.0 U	1.0 U	0.10 U
ICS-P34-W-20-060915														
ICS-P34-W-20-060915														
ICS-P34-W-20-060915														
ICS-P35-W-10-060915	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	1.0 U	1.0 U	0.10 U
ICS-P35-W-10-060915														
ICS-P35-W-10-060915														
ICS-P35-W-10-060915														
Trip Blank														
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	19 U	19 U
ICS-P35-SO-10-060815	19 U	19 U	93 U	93 U	19 U	19 U	19 U	4.7 U	19 U	**6.5 J**	19 U	19 U	**9.3 J**	19 U
ICS-P35-SO-16-060815	20 U	20 U	98 U	98 U	20 U	20 U	20 U	4.9 U	20 U	**13 J**	20 U	20 U	**9.8 J**	**5.9 J_B**
ICS-P36-SO-4-060815	19 U	19 U	94 U	94 U	**19 J_B**	19 U	19 U	4.7 U	19 U	**5.6 J**	19 U	19 U	**8.4 J**	19 U
ICS-P36-SO-10-060815	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U	19 U	**7.5 J**	19 U	19 U	**6.6 J**	19 U
ICS-P36-SO-16-060815	19 U	19 U	95 U	95 U	19 U	19 U	19 U	4.8 U	19 U	19 U	19 U	19 U	**6.6 J**	19 U
ICS-P34-SO-4-060915	19 U	**4.8 J**	95 U	95 U	**19 J_B**	19 U	19 U	4.8 U	19 U	**22**	**8.6 J**	19 U	**6.7 J**	**37**
ICS-P34-SO-10-060915	20 U	20 U	98 U	98 U	**24 J_B**	20 U	20 U	4.9 U	20 U	**11 J**	20 U	20 U	**6.9 J**	20 U
ICS-P34-SO-16-060915	19 U	19 U	97 U	97 U	19 U	19 U	19 U	4.8 U	19 U	**9.7 J**	19 U	19 U	19 U	19 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely biased high due to contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-P36-W-10-060815	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P36-W-10-060815													
ICS-P36-W-10-060815													
ICS-P36-W-10-060815													
ICS-P36-W-20-060815	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P36-W-20-060815													
ICS-P36-W-20-060815													
ICS-P36-W-20-060815													
ICS-P35-W-20-060815	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P35-W-20-060815													
ICS-P35-W-20-060815													
ICS-P35-W-20-060815													
Trip Blank													
ICS-P34-W-10-060915	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P34-W-10-060915													
ICS-P34-W-10-060915													
ICS-P34-W-10-060915													
ICS-P34-W-20-060915	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P34-W-20-060915													
ICS-P34-W-20-060915													
ICS-P34-W-20-060915													
ICS-P35-W-10-060915	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-P35-W-10-060915													
ICS-P35-W-10-060915													
ICS-P35-W-10-060915													
Trip Blank													
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	**8.6 J**	19 U	38 U
ICS-P35-SO-10-060815	19 U	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	19 U	37 U
ICS-P35-SO-16-060815	**7.8 J**	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U
ICS-P36-SO-4-060815	19 U	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U	19 U	19 U	**6.5 J**	19 U	37 U
ICS-P36-SO-10-060815	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U
ICS-P36-SO-16-060815	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U
ICS-P34-SO-4-060915	**47**	**9.5**	**34**	**120**	**46**	19 U	**110**	**43**	**30**	**15 J**	**30**	39	392
ICS-P34-SO-10-060915	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U
ICS-P34-SO-16-060915	**5.8 J**	4.8 U	19 U	48 U	19 U	19 U	39 U	19 U	19 U	19 U	19 U	19 U	39 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-P36-W-10-060815	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P36-W-10-060815																
ICS-P36-W-10-060815																
ICS-P36-W-10-060815																
ICS-P36-W-20-060815	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P36-W-20-060815																
ICS-P36-W-20-060815																
ICS-P36-W-20-060815																
ICS-P35-W-20-060815	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P35-W-20-060815																
ICS-P35-W-20-060815																
ICS-P35-W-20-060815																
Trip Blank																
ICS-P34-W-10-060915	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	**0.013**	0.0050 U	0.0050 U	**0.010**	0.0050 U	0.0050 U	0.025 U
ICS-P34-W-10-060915																
ICS-P34-W-10-060915																
ICS-P34-W-10-060915																
ICS-P34-W-20-060915	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P34-W-20-060915																
ICS-P34-W-20-060915																
ICS-P34-W-20-060915																
ICS-P35-W-10-060915	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.025 U
ICS-P35-W-10-060915																
ICS-P35-W-10-060915																
ICS-P35-W-10-060915																
Trip Blank																
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U
ICS-P35-SO-10-060815	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U
ICS-P35-SO-16-060815	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.5 U
ICS-P36-SO-4-060815	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.93 U	0.47 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	4.7 U
ICS-P36-SO-10-060815	12 U	10 U	3.7 U	0.49 U	0.49 U	0.49 U	4.1 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U
ICS-P36-SO-16-060815	5.7 U	5.7 U	2.2 U	3.8 U	0.49 U	1.4 U	3.1 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U
ICS-P34-SO-4-060915	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	2.7 U	0.95 U	6.9 U	0.95 U	0.95 U	0.95 U	6.4 U	4.8 U
ICS-P34-SO-10-060915	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U
ICS-P34-SO-16-060915	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater and Subsurface Soils from Push-Probe Sampling, June 2015

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-P36-W-10-060815	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-10-060815															
ICS-P36-W-20-060815	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P36-W-20-060815															
ICS-P35-W-20-060815	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
ICS-P35-W-20-060815															
Trip Blank															
ICS-P34-W-10-060915	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.010 J**	**0.010 J**	**0.0050 J**	0.010 U	0.010 U	0.025
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-10-060915															
ICS-P34-W-20-060915	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	**0.14**	**0.18 J_P**	**0.085**	0.010 U	0.010 U	0.41
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P34-W-20-060915															
ICS-P35-W-10-060915	0.0050 U	0.0050 U	0.0025 U	0.0025 U	0.25 U	0.0050 U	0.0050 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
ICS-P35-W-10-060915															
Trip Blank															
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-P35-SO-4-060815	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
ICS-P35-SO-10-060815	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P35-SO-16-060815	1.9 U	1.9 U	0.95 U	0.95 U	48 U	1.9 U	1.9 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P36-SO-4-060815	0.93 U	0.93 U	0.47 U	0.47 U	23 U	0.93 U	0.93 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P36-SO-10-060815	0.98 U	0.98 U	2.9 U	0.49 U	24 U	5.4 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P36-SO-16-060815	0.98 U	0.98 U	2.1 U	0.49 U	25 U	4.6 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P34-SO-4-060915	3.5 U	2.3 U	**2.5**	**2.1**	24 U	0.95 U	0.95 U	3.8 U	3.8 U	19 U	**57 J_P**	**60**	3.8 U	3.8 U	117
ICS-P34-SO-10-060915	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P34-SO-16-060915	0.99 U	0.99 U	0.50 U	0.50 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8082).
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: August 25, 2015

SUBJECT: Data Evaluation/Assessment for 33 Subsurface Soils (from frozen archivals) Collected from Soil Push-Probes during November-December 2014 from the ICS / [former] NW Cooperage Site, Seattle, WA

Thirty-three subsurface soil composites from soil push-probes were pulled from frozen archives for analyses of selected parameters. These samples were collected and submitted for archival storage at – 20 °C by Dalton, Olmsted & Fuglevand (DOF) staff during November – December, 2014, to Analytical Resources Inc. (ARI) of Tukwila, Washington within 42 hours of collection. Samples were received on ice at temperatures between 0.3 and 5.4 °C, and maintained at the project laboratory at - 20 °C prior to analyses. Selected samples were retrieved, thawed and assigned to four separate analytical/work groups. Sample holding times and conditions are within the specifications of U.S. EPA Region 10 guidance for extractable organics and metals analyses. Volatile organic compounds (VOC's) analyses for three samples were performed outside the specifications of Regional and National guidances (14-day maximum recommended holding time at 4 °C).

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Table SAP-6 of the SAP.

VOC's	SW846-M.8260C	PAH's	SW846-M.8270D
pentachlorophenol	SW846-M.8041 (GC/ECD option)	lead	SW846-M.6020
PCB's as Aroclors	SW846-M.8082	chlor. pesticides	SW846-M.8081B
total petroleum HC's	NWTPH-Dx & -G		

Polycyclic aromatic hydrocarbons (PAH's) analyses were performed by SW846 M.8270 in full-scan mode. Chlorinated pesticides (including HCBD and HCB by M.8081B) analyses were supplemented with extract cleanup by GPC (gel permeation chromatography), silica gel chromatographic cleanup and elemental sulfur S_x removal. Pentachlorophenol (PCP) was

analyzed by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and strong-acid digestion cleanup steps. NWTPH-G was analyzed by purge & trap and GC/MS; outside the 14-day maximum recommended holding time. PCB's in soils (by M.8082) was determined by including the extract cleanup options of S_x removal, strong-acid digestion, and silica gel chromatography prior to instrumental analyses.

TPH-G and VOC's were analyzed from selected archived samples (ICS-P15-SO-7-111414, ICS-P17-SO-7-111214 and ICS-P30-SO-10-120914) at the request of the Washington Department of Ecology, despite exceedance of the maximum recommended holding time of 14 days. Both preserved and non-preserved samples were analyzed for comparison of VOC results; these are identified in the attached results Table as "pres. vial" and archvd soil" for preserved 40-ml VOA's vial and 8-16 oz non-preserved soil with headspace, respectively. Preservation consists of 5 ml of bisulfite solution (in a 40-ml VOA's vial) for samples ICS-P15-SO-7-111414 and ICS-P30-SO-10-120914, and 5 ml of MeOH for ICS-P17-SO-7-111214. Aliquots from non-preserved samples were taken from the center of the soil mass to minimize any bias associated from either sublimation and/or evaporative losses during storage. Also, a non-preserved frozen archived sample was analyzed from selected soil columns to compare archived sample results to results generated for the same location and horizon analyzed in a preserved (non-archived) sample within the recommended holding times ($\leq$ 14 days) [preserved, non-archived sample results are presented in blue-face type in the attached results Table]. In general, there appears to be consistent positive bias associated with methylene chloride, acetone, and carbon disulfide in preserved archived samples compared to non-preserved archivals for the same location. Results for other VOC parameters tended to be comparable and generally within a factor of 2x for sample pairs, with some exceptions. Comparison of results from non-preserved frozen archivals to preserved, non-archived samples analyzed within the 14-day maximum recommended holding time shows general lack of consistency between sample pairs. This may be a result of two potentially significant processes – 1) contaminated solids/soils heterogeneity, and/or 2) sample contamination associated with the archival/storage process, where sublimation, evaporative losses, and [vapor] transfer occurred between samples in the storage compartment. The second process is likely more significant and problematic due to lack of appropriate control mechanisms to minimize cross contamination between samples and from the compartment space. Sample container lids were found to loosen during the freezing process, and accumulation of ice crystals on the inside surface of the sample containers indicates potential sublimation and condensation of volatile constituents. VOC's and TPH-G data from analysis of frozen archived soils is likely unrepresentative of the samples collected, and data quality is considered suspect. The use of VOC's and TPH-G data for decision making from project soils held in archival storage is not recommended.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table, with the exception of VOC's, were completed within the technical holding times and under conditions recommended by the U.S. EPA.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP or dependent on presence of elevated levels of other contaminants or background interferents.

Elevated lower reporting limits for selected target analytes were evident for chlorinated pesticide parameters in samples P18-SO-7-121614, P22-SO-7-111414 and P29-SO-22-121014 due to presence of matrix interferences. Acenaphthylene in ICS-P18-SO-7-121614 is qualified as an estimated value at 24 µg/kg with the "J" qualifier due to some low amount of interference affecting the mass spectrum. Chromatographic or co-elution interference was apparent for hexachlorobutadiene (HCBD) in ICS-P18-SO-7-1216145 resulting in an elevated reporting limit for a nondetect at a lower limit of 15 µg/kg ("U" qualified). All analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of acetone, hexachlorobutadiene (HCBD), 1,2,4-trichlorobenzene, naphthalene and 1,2,3-trichlorobenzene at 2.8 µg/kg, 0.5 µg/kg, 0.7 µg/kg, 0.9 µg/kg, and 0.8 µg/kg, respectively, during VOC's analyses. Concentrations for these analytes at up to twice the method blank levels are determined to be potentially impacted by background levels and are thus qualified with the "J_B" descriptor in the attached Table.

Laboratory control samples (**LCS/LCSD**) were analyzed for all parameter groups, and recoveries were within specified ranges for all analytes. Matrix spike (**MS**) analyses were performed for all parameters in soils, with the exception of TPH-G and [preserved-sample] VOC's. MS performance exhibited recoveries within the range of 45 – 148%, which is generally within acceptance ranges. The lower recoveries are associated with carbon disulfide (48% in P30-SO-7-120914), chrysene (148% in P30-SO-10-120914), TPH-Dx (57.2% in P24-SO-13-111314) and lead (48.8% in P18-SO-13-121614). Sample heterogeneity is likely responsible for the elevated recovery for lead; the recovery may be closer to 109% if the secondary result from the determination of RPD (duplicate results are 56.1 and 38.3 mg/kg; RPD = 38) is used to calculate recovery. The associated MS duplicates for carbon disulfide, TPH-Dx and chrysene are within the specified acceptance ranges. No results required qualification due to unacceptable analyte recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, PAH's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols (pentachlorophenol). Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance; *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses, and trifluorotoluene and bromobenzene used for evaluating TPH-G analytical performance. PAH recoveries were evaluated with the use of the two surrogate compounds 2-fluorobiphenyl and d_{14}-*p*-terphenyl. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All surrogate recoveries are determined to be within specified acceptance ranges. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed occasional [minor] noncompliant responses (CCV RPD compared to initial calibration responses > 20) for 1,1,2-trichloro-1,2,2-trifluoroethane, 1,1-dichloroethene and hexachlorobutadiene (in VOC's). No positive hits/detections for these analytes are reported; thus no results require qualification due to noncompliant CCV's.

TPH-Dx and TPH-G analyses indicate likely presence of identifiable hydrocarbon mixtures (chromatographic profiles resembling the respective hydrocarbon mixture); gasoline in ICS-P30-SO-10-120914, and diesel fuel/fuel oil and motor oil lubricant in both ICS-P29-SO-7-121014 and ICS-P30-SO-10-120914. These specific results are highlighted in bold-type in the attached results Table.

Sample results reported here are determined to be in general compliance with method and SAP requirements, with the exceptions noted above. All reported data (attached) with the associated qualifiers, with the exception of archived-sample VOC and TPH-G results, are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Lead	Total Petroleum Hydrocarbons **		
						7439-92-1	Gasoline-range	Diesel-range	Lube-range
					%	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	73		8.3 U		
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	72				
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	48				
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	68				
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	77		57		
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	77				
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	65				
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	66				
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	91				
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	90				
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	80		**51**		
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	80				
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	84				
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	85				
						TPH-G results suspect due to holding time and condition issues.			
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A	90				
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B	75			6.1 U	12 U
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C	73				
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D	79				
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E	87				
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F	82	**56.1**			
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G	76			6.3 U	13 U
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H	79				
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I	75				
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J	74				
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K	83				
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L	71	**4.0**			
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M	71				
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N	73				
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O	76				
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P	78				
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q	83				
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R	72				
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S	74				
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A	77	**13.3**		**8400**	**20,000**
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B	72				
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C	78				
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D	81				
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E	73				
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F	74				
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G	85				
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H	72				
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I	79			**100**	**260**
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J	75				
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K	79				
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L	81				
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M	78				
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N	76				

Blue-highlighted data validated from non-archived sample analyses.

*** bold-typed values resemble corresponding [weathered] petroleum hydrocarbon mixture.*

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloro-methane 74-87-3 µg/kg, dry	Bromo-methane 74-83-9 µg/kg, dry	Vinyl chloride 75-01-4 µg/kg, dry	Chloro-ethane 75-00-3 µg/kg, dry	Methylene chloride 75-09-2 µg/kg, dry	Acetone 67-64-1 µg/kg, dry	Carbon disulfide 75-15-0 µg/kg, dry	1,1-Dichloro-ethene 75-35-4 µg/kg, dry	1,1-Dichloro-ethane 75-34-3 µg/kg, dry	*trans*-1,2-Dichloroethene 156-60-5 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	1.7 U	1.7 U	**0.9 J**	**2.7**	**150**	**240**	**14**	1.7 U	**39**	1.7 U
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	1.3 U	1.3 U	1.3 U	1.3 U	**1.6 J**	**160**	**1.6**	1.3 U	**18**	**0.6 J**
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	2.0 U	2.0 U	2.0 U	2.0 U	**2.4 J**	**1200**	**29**	2.0 U	2.0 U	2.0 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	1.8 U	1.8 U	1.8 U	1.8 U	**6.4 J_B**	**150**	**4.3**	1.8 U	**2.7**	**1.4 J**
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	89 U	**39 J**	89 U	89 U	**290**	450 U	89 U	89 U	89 U	89 U
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	70 U	**29 J**	70 U	70 U	140 U	350 U	70 U	70 U	70 U	70 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	98 U	**32 J**	98 U	98 U	**75 J**	**890**	98 U	98 U	98 U	98 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	2.0 U	**1.1 J**	2.0 U	2.0 U	**4.4**	**89**	**3.0**	2.0 U	**3.4**	**1.8 J**
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	56 U	56 U	56 U	56 U	**50 J**	280 U	56 U	56 U	56 U	56 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	1.0 U	1.0 U	1.0 U	1.0 U	**3.4 J_B**	**120**	**5.7 J_Q**	1.0 U	1.0 U	1.0 U
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	**1.1 J**	1.3 U	1.3 U	1.3 U	**63**	**330**	**120**	1.3 U	**0.9 J**	1.3 U
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	1.1 U	1.1 U	1.1 U	1.1 U	**4.1**	**83**	**3.9**	1.1 U	1.1 U	1.1 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	61 U	**20 J**	61 U	61 U	**42 J**	300 U	61 U	61 U	61 U	61 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	**1.5 J_Q**	1.0 U	1.0 U	1.0 U
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A										
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B										
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C										
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D										
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E										
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G										
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H										
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I										
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J										
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K										
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M										
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O										
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P										
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q										
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R										
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S										
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B										
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C										
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D										
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E										
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F										
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G										
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I										
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J										
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K										
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L										
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N										

Black-faced VOC results suspect due to holding time and condition issues.

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
J_B = estimate; associated value is likely biased high due to contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	*cis* -1,2-Dichloroethene 156-59-2 µg/kg, dry	Chloroform 67-66-3 µg/kg, dry	1,2-Dichloro-ethane 107-06-2 µg/kg, dry	2-Butanone 78-93-3 µg/kg, dry	1,1,1-Tri-chloroethane 71-55-6 µg/kg, dry	Carbon tetrachloride 56-23-5 µg/kg, dry	Bromo-dichloromethane 75-27-4 µg/kg, dry	1,2-Dichloro-propane 78-87-5 µg/kg, dry	*cis* -1,3-Dichloro-propene 10061-01-5 µg/kg, dry	Trichloro-ethene 79-01-6 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	**1.9**	1.7 U	1.7 U	**28**	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	**0.8 J**	1.3 U	1.3 U	**33**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	2.0 U	2.0 U	2.0 U	**200**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	**30**	1.8 U	1.8 U	**29**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**4.0**
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	89 U	89 U	89 U	450 U	89 U	89 U	89 U	89 U	89 U	**120**
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	70 U	70 U	70 U	350 U	70 U	70 U	70 U	70 U	70 U	70 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	98 U	98 U	98 U	490 U	98 U	98 U	98 U	98 U	98 U	98 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	2.0 U	2.0 U	2.0 U	**17**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	56 U	56 U	56 U	280 U	56 U	56 U	56 U	56 U	56 U	56 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	1.3 U	1.3 U	1.3 U	**23**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	1.1 U	1.1 U	1.1 U	**6.0**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	61 U	61 U	61 U	300 U	61 U	61 U	61 U	61 U	61 U	61 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A										
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B										
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C										
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D										
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E										
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G										
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H										
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I										
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J										
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K										
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M										
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O										
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P										
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q										
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R										
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S										
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B										
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C										
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D										
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E										
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F										
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G										
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I										
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J										
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K										
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L										
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N										

Black-faced VOC results suspect due to holding time and condition issues.

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Dibromo-chloromethane 124-48-1 µg/kg, dry	1,1,2-Trichloro-ethane 79-00-5 µg/kg, dry	Benzene 71-43-2 µg/kg, dry	*trans* -1,3-Dichloropropene 10061-02-6 µg/kg, dry	Bromo-form 75-25-2 µg/kg, dry	4-Methyl-2-pentanone 108-10-1 µg/kg, dry	2-Hexanone 591-78-6 µg/kg, dry	Tetrachloro-ethene 127-18-4 µg/kg, dry	1,1,2,2-Tetra-chloroethane 79-34-5 µg/kg, dry	Toluene 108-88-3 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	1.7 U	1.7 U	**2.6**	1.7 U	1.7 U	8.4 U	8.4 U	1.7 U	1.7 U	**8.1**
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	1.3 U	1.3 U	**0.9 J**	1.3 U	1.3 U	6.6 U	6.6 U	1.3 U	1.3 U	**3.3**
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	2.0 U	2.0 U	**1.1 J**
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	1.8 U	1.8 U	**2.4**	1.8 U	1.8 U	8.9 U	8.9 U	**1.7 J**	1.8 U	**73**
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	89 U	89 U	89 U	89 U	89 U	450 U	450 U	89 U	89 U	89 U
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	70 U	70 U	70 U	70 U	70 U	350 U	350 U	70 U	70 U	70 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	98 U	98 U	98 U	98 U	98 U	490 U	490 U	98 U	98 U	98 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	2.0 U	2.0 U	**15**	2.0 U	2.0 U	10 U	10 U	2.0 U	2.0 U	**19**
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	56 U	56 U	56 U	56 U	56 U	280 U	280 U	56 U	56 U	**45 J**
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	1.0 U	1.0 U	**4.1**	1.0 U	1.0 U	5.0 U	5.0 U	**0.8 J**	1.0 U	**390**
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	1.3 U	1.3 U	**18**	1.3 U	1.3 U	6.6 U	6.6 U	1.3 U	1.3 U	**2.1**
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	1.1 U	1.1 U	**3.1**	1.1 U	1.1 U	5.6 U	5.6 U	1.1 U	1.1 U	**1.0 J**
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	61 U	61 U	**32 J**	61 U	61 U	300 U	300 U	61 U	61 U	**220**
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	1.0 U	1.0 U	**21**	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	**4.0**

Black-faced VOC results suspect due to holding time and condition issues.

ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloro-benzene 108-90-7 µg/kg, dry	Ethyl-benzene 100-41-4 µg/kg, dry	Styrene 100-42-5 µg/kg, dry	Trichloro-fluoromethane 75-69-4 µg/kg, dry	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/kg, dry	*m* - & *p* - Xylenes 179601-23-1 µg/kg, dry	*o* -Xylene 95-47-6 µg/kg, dry	1,2-Dichloro-benzene 95-50-1 µg/kg, dry	1,3-Dichloro-benzene 541-73-1 µg/kg, dry	1,4-Dichloro-benzene 106-46-7 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	1.7 U	**32**	1.7 U	1.7 U	3.3 U	**43**	**7.4**	1.7 U	1.7 U	1.7 U
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	1.3 U	**23**	1.3 U	1.3 U	2.6 U	**32**	**12**	**0.5 J**	1.3 U	1.3 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	2.0 U	**10**	2.0 U	2.0 U	4.0 U	**42**	**21**	**1.4 J**	**1.1 J**	**2.7**
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	1.8 U	**50**	1.8 U	1.8 U	3.6 U	**110**	**30**	1.8 U	1.8 U	1.8 U
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	**98**	89 U	89 U	89 U	180 U	89 U	89 U	**140**	**2000**	**3800**
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	70 U	70 U	70 U	70 U	140 U	70 U	70 U	**33 J**	**1000**	**1200**
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	**110**	**85 J**	98 U	98 U	200 U	**130**	**47 J**	**120**	**970**	**2400**
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	**18**	**13**	2.0 U	2.0 U	4.1 U	**19**	**7.8**	2.0 U	2.0 U	2.0 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	56 U	**600**	56 U	56 U	110 U	**190**	**170**	**65**	56 U	56 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	1.0 U	**2700**	**87**	1.0 U	2.0 U	**730**	**510**	**140**	1.0 U	**6.0**
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	1.3 U	**0.6 J**	1.3 U	1.3 U	2.6 U	**4.3**	**0.9 J**	1.3 U	1.3 U	1.3 U
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	1.1 U	**0.4 J**	1.1 U	1.1 U	2.2 U	**2.6**	**0.6 J**	**0.5 J**	1.1 U	1.1 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	61 U	**210**	**78**	61 U	120 U	**920**	**500**	61 U	61 U	61 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	1.0 U	**2.0**	**0.7 J**	1.0 U	2.0 U	**5.3**	**2.2**	1.0 U	1.0 U	1.0 U
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A										
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B										
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C										
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D										
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E										
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G										
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H										
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I										
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J										
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K										
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M										
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O										
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P										
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q										
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R										
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S										
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B										
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C										
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D										
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E										
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F										
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G										
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I										
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J										
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K										
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L										
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N										

Black-faced VOC results suspect due to holding time and condition issues.

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Acrolein 107-02-8 µg/kg, dry	Bromoethane 74-96-4 µg/kg, dry	1,1-Dichloro-propene 563-58-6 µg/kg, dry	Dibromo-methane 74-95-3 µg/kg, dry	1,1,1,2-Tetra-chloroethane 630-20-6 µg/kg, dry	1,2,3-Trichloro-propane 96-18-4 µg/kg, dry	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/kg, dry	1,3,5-Trimethyl-benzene 108-67-8 µg/kg, dry	1,2,4-Trimethyl-benzene 95-63-6 µg/kg, dry	Hexachlorobutadiene 87-68-3 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	84 U	3.3 U	1.7 U	1.7 U	1.7 U	3.3 U	8.4 U	**8.7**	**23**	8.4 U
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	66 U	2.6 U	1.3 U	1.3 U	1.3 U	2.6 U	6.6 U	**9.4**	**27**	6.6 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	100 U	4.0 U	2.0 U	2.0 U	2.0 U	4.0 U	10 U	**8.2**	**40**	10 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	89 U	3.6 U	1.8 U	1.8 U	1.8 U	3.6 U	8.9 U	1.8 U	1.8 U	*(see M.8081B result)*
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	4500 U	180 U	89 U	89 U	89 U	180 U	450 U	89 U	89 U	450 U
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	3500 U	140 U	70 U	70 U	70 U	140 U	350 U	70 U	70 U	350 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	4900 U	200 U	98 U	98 U	98 U	200 U	490 U	**37 J**	**160**	490 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	100 U	4.1 U	2.0 U	2.0 U	2.0 U	4.1 U	10 U	2.0 U	**2.7**	10 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	2800 U	110 U	56 U	56 U	56 U	110 U	280 U	**240**	**880**	280 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	50 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	**250**	**1700**	*(see M.8081B result)*
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	66 U	2.6 U	1.3 U	1.3 U	1.3 U	2.6 U	6.6 U	**1.3**	**1.4**	6.6 U
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	56 U	2.2 U	1.1 U	1.1 U	1.1 U	2.2 U	5.6 U	**0.8 J**	**1.0 J**	5.6 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	3000 U	120 U	61 U	61 U	61 U	120 U	300 U	**910**	**2700**	300 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	50 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	**1.3**	**3.5**	*(see M.8081B result)*

Black-faced VOC results suspect due to holding time and condition issues.

ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	1,2-Dibromo-ethane 106-93-4 µg/kg, dry	Bromochloro-methane 74-97-5 µg/kg, dry	2,2-Dichloro-propane 294-20-7 µg/kg, dry	1,3-Dichloro-propane 142-28-9 µg/kg, dry	Isopropyl-benzene 98-82-8 µg/kg, dry	n-Propyl-benzene 103-65-1 µg/kg, dry	Bromo-benzene 108-86-1 µg/kg, dry	2-Chloro-toluene 95-49-8 µg/kg, dry	4-Chloro-toluene 106-43-4 µg/kg, dry	*tert*-Butyl-benzene 98-06-6 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	1.7 U	1.7 U	1.7 U	1.7 U	**1.8**	**2.5**	1.7 U	1.7 U	1.7 U	1.7 U
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	1.3 U	1.3 U	1.3 U	1.3 U	**1.2 J**	**2.7**	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	2.0 U	2.0 U	2.0 U	2.0 U	**0.8 J**	**2.2**	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	89 U	89 U	89 U	89 U	**200**	**120**	89 U	89 U	89 U	89 U
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	70 U	70 U	70 U	70 U	70 U	70 U	70 U	70 U	70 U	70 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	98 U	98 U	98 U	98 U	**57 J**	98 U	98 U	98 U	98 U	98 U
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	2.0 U	2.0 U	2.0 U	2.0 U	**1.8 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	56 U	56 U	56 U	56 U	**58**	**120**	56 U	56 U	56 U	56 U
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	1.0 U	1.0 U	1.0 U	1.0 U	**140**	**270**	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	1.3 U	1.3 U	1.3 U	1.3 U	**1.7**	**0.8 J**	1.3 U	1.3 U	1.3 U	1.3 U
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	1.1 U	1.1 U	1.1 U	1.1 U	**2.0**	**1.1 J**	1.1 U	1.1 U	1.1 U	**0.5 J**
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	61 U	61 U	61 U	61 U	**72**	**360**	61 U	61 U	61 U	61 U
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	1.0 U	1.0 U	1.0 U	1.0 U	**0.9 J**	**0.8 J**	1.0 U	1.0 U	1.0 U	1.0 U
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A										
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B										
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C										
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D										
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E										
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G										
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H										
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I										
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J										
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K										
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M										
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O										
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P										
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q										
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R										
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S										
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B										
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C										
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D										
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E										
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F										
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G										
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I										
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J										
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K										
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L										
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N										

Black-faced VOC results suspect due to holding time and condition issues.

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
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Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	*sec* -Butyl-benzene 135-98-8 µg/kg, dry	4-Isopropyl-toluene 99-87-6 µg/kg, dry	n-Butyl-benzene 104-51-8 µg/kg, dry	1,2,4-Trichloro-benzene 120-82-1 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	1,2,3-Trichloro-benzene 87-61-6 µg/kg, dry	Naphthalene 91-20-3 µg/kg, dry	2-Methyl-naphthalene 91-57-6 µg/kg, dry	1-Methyl-naphthalene 90-12-0 µg/kg, dry	Acenaph-thylene 208-96-8 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)	**1.4 J**	**4.8**	**1.3 J**	8.4 U	**2.5 J_B**	8.4 U				
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)	**1.9**	**8.1**	**2.6**	6.6 U	**4.2 J_B**	6.6 U				
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)	2.0 U	**4.9**	2.0 U	10 U	**6.4 J_B**	10 U				
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E	1.8 U	1.8 U	1.8 U	*(see M.8270D results)*		8.9 U				
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)	89 U	89 U	**55 J**	**230 J_B**	450 U	450 U				
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)	70 U	70 U	70 U	**1900**	350 U	350 U				
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)	98 U	98 U	98 U	**150 J_B**	**110 J_B**	490 U				
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B	2.0 U	2.0 U	2.0 U	*(see M.8270D results)*		10 U				
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)	**59**	**79**	**150**	**30 J_B**	**470 J_B**	280 U				
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A	1.0 U	**100**	**150**	*(see M.8270D results)*		5.0 U				
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)	**1.0 J**	1.3 U	1.3 U	6.6 U	**1.9 J_B**	6.6 U				
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)	**1.6**	**0.5 J**	**0.6 J**	5.6 U	**1.1 J_B**	5.6 U				
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)	61 U	**78**	**300**	300 U	**320 J_B**	300 U				
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B	**1.3**	**0.7 J**	1.0 U	*(see M.8270D results)*		5.0 U				
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A										
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B										
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C										
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D										
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E							**3100**	**1600**	**1600**	**24 J**
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G										
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H										
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I										
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J										
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K										
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M										
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O										
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P										
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q										
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R										
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S										
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B										
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C										
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D										
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E										
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F										
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G										
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I							**550**	**140**	**80**	**24**
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J										
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K										
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L										
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N										

Black-faced VOC results suspect due to holding time and condition issues.

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely biased high due to contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Acenaphthene 83-32-9 µg/kg, dry	Dibenzo-furan 132-64-9 µg/kg, dry	Fluorene 86-73-7 µg/kg, dry	Pentachloro-phenol 87-86-5 µg/kg, dry	Phenanthrene 85-01-8 µg/kg, dry	Anthracene 120-12-7 µg/kg, dry	Fluoranthene 206-44-0 µg/kg, dry	Pyrene 129-00-0 µg/kg, dry	Benzo(a)-anthracene 56-55-3 µg/kg, dry	Chrysene 218-01-9 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)										
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)										
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)										
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)										
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B										
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)										
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)										
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)										
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B										
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A				**3.5 J**						
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B										
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C										
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D										
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E	**370**	**180**	**240**		**870**	**80**	**380**	**330**	**89**	**130**
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G				8.0 U						
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H										
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I										
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J										
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K										
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M										
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O										
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P										
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q										
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R										
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S										
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B										
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C										
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D										
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E										
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F										
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G										
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I	**27**	**54**	**67**		**660**	**120**	**530**	**490**	**160**	**220**
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J										
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K										
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L										
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N										

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	total Benzo-fluoranthenes µg/kg, dry	Benzo(a)-pyrene 50-32-8 µg/kg, dry	Indeno(1,2,3-cd)pyrene 193-39-5 µg/kg, dry	Dibenz(a,h)-anthracene 53-70-3 µg/kg, dry	Benzo(g,h,i)-perylene 191-24-2 µg/kg, dry	LPAH µg/kg, dry	HPAH µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)							
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)							
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)							
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E							
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)							
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)							
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)							
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B							
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)							
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A							
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)							
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)							
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)							
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B							
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A							
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B							
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C							
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D							
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E	**140**	**71**	**48**	19 U	**62**	4684	1250
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F							
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G							
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H							
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I							
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J							
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K							
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L							
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M							
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N							
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O							
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P							
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q							
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R							
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S							
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A							
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B							
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C							
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D							
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E							
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F							
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G							
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H							
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I	**260**	**130**	**80**	**29**	**92**	1448	1991
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J							
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K							
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L							
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M							
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N							

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	alpha-BHC 319-84-6 µg/kg, dry	beta-BHC 319-85-7 µg/kg, dry	delta-BHC 319-86-8 µg/kg, dry	gamma-BHC (Lindane) 58-89-9 µg/kg, dry	Heptachlor 76-44-8 µg/kg, dry	Aldrin 309-00-2 µg/kg, dry	Heptachlor epoxide 1024-57-3 µg/kg, dry	Endosulfan I 959-98-8 µg/kg, dry	Dieldrin 60-57-1 µg/kg, dry	4,4'-DDE 72-55-9 µg/kg, dry	Endrin 72-20-8 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)											
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)											
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)											
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E											
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)											
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)											
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)											
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B											
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)											
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A											
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)											
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)											
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)											
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B											
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C											
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D											
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E	0.48 U	0.85 U	0.48 U	0.48 U	0.69 U	0.48 U	19 U	0.48 U	7.8 U	14 U	4.0 U
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F											
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	1.6 U	0.48 U	0.96 U	**2.9**	0.96 U
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H											
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J											
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K											
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L											
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N											
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O											
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P											
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q											
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R											
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A											
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B	0.62 U	3.5 U	0.48 U	1.7 U	5.4 U	7.1 U	9.6 U	0.48 U	4.8 U	**220**	9.6 U
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C											
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D											
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F											
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G	0.49 U	12 U	0.49 U	**3.9**	1.2 U	0.49 U	8.1 U	0.49 U	0.98 U	8.2 U	18 U
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H											
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I											
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J											
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K											
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L											
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M											
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N											

Blue-highlighted data validated from non-archived sample analyses.

U = nondetected at the associated lower reporting limit.

Remedial Investigation
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Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Endosulfan II 33213-65-9 µg/kg, dry	4,4'-DDD 72-54-8 µg/kg, dry	Endosulfan sulfate 1031-07-8 µg/kg, dry	4,4'-DDT 50-29-3 µg/kg, dry	Methoxychlor 72-43-5 µg/kg, dry	Endrin ketone 53494-70-5 µg/kg, dry	Endrin aldehyde 7421-93-4 µg/kg, dry	trans-Chlordane 5103-74-2 µg/kg, dry	cis-Chlordane 5103-71-9 µg/kg, dry	Toxaphene 8001-35-2 µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)										
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)										
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)										
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)										
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B										
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)										
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)										
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)										
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B										
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U	0.99 U	0.99 U	0.50 U	0.50 U	25 U
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	25 U
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C										
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D										
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E	7.4 U	20 U	2.0 U	29 U	4.8 U	6.9 U	3.6 U	3.6 U	13 U	24 U
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G	0.96 U	0.96 U	0.96 U	2.6 U	4.8 U	0.96 U	0.96 U	0.48 U	0.48 U	24 U
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H										
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J										
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K										
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	0.49 U	0.49 U	24 U
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O										
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P										
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q										
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R										
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	0.50 U	0.50 U	25 U
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B	5.6 U	0.96 U	5.6 U	16 U	48 U	9.3 U	0.96 U	7.7 U	2.4 U	24 U
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C										
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D										
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E	0.95 U	0.95 U	0.95 U	0.95 U	4.7 U	0.95 U	0.95 U	0.47 U	0.47 U	24 U
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F										
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G	4.2 U	15 U	0.98 U	15 U	4.9 U	14 U	9.4 U	8.9 U	8.9 U	24 U
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I										
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J										
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K										
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L										
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N										

Blue-highlighted data validated from non-archived sample analyses.

U = nondetected at the associated lower reporting limit.

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Archived Subsurface Soils from Push-Probe Sampling, November - December 2014

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Hexachloro-benzene 118-74-1 µg/kg, dry	Hexachloro-butadiene 87-68-3 µg/kg, dry	Aroclor 1016 12674-11-2 µg/kg, dry	Aroclor 1242 53469-21-9 µg/kg, dry	Aroclor 1248 12672-29-6 µg/kg, dry	Aroclor 1254 11097-69-1 µg/kg, dry	Aroclor 1260 11096-82-5 µg/kg, dry	Aroclor 1221 11104-28-2 µg/kg, dry	Aroclor 1232 11141-16-5 µg/kg, dry	total PCBs µg/kg, dry
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (pres. vial)	1513662(5)-AJZ0B(E)										
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513682(9)-AJZ1E(L)										
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (archvd soil)	1513681(8)-AJZ1D(K)										
ICS-P15-SO-10-111414	soil-pushprobe	11/14/2014	8.5 - 10' (pres. vial)	1424896-ZK50E										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (pres. vial)	1513663(6)-AJZ0C(F)										
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513684(91)-AJZ1G(N)										
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (archvd soil)	1513683(90)-AJZ1F(M)										
ICS-P17-SO-10-111214	soil-pushprobe	11/12/2014	9 - 11' (pres. vial)	1424620-ZK10B										
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (archvd soil)	1513678(85)-AJZ1A(H)										
ICS-P30-SO-7-120914	soil-pushprobe	12/9/2014	6 - 7' (pres. vial)	1426754-ZO01A										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (pres. vial)	1513661(4)-AJZ0A(D)										
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513680(7)-AJZ1C(J)										
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (archvd soil)	1513679(86)-AJZ1B(I)										
ICS-P30-SO-13-120914	soil-pushprobe	12/9/2014	12.5 - 13.5' (pres. vial)	1426755-ZO01B										
ICS-P13-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513766-AKB5A	0.99 U	0.99 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P24-SO-13-111314	soil-pushprobe	11/13/2014	12 - 14' (archvd soil)	1513767-AKB5B	0.98 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P26-SO-7-111314	soil-pushprobe	11/13/2014	6 - 8' (archvd soil)	1513768-AKB5C			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P12-SO-7-111714	soil-pushprobe	11/17/2014	6 - 8' (archvd soil)	1513769-AKB5D			4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P18-SO-7-121614	soil-pushprobe	12/16/2014	6 - 8' (archvd soil)	1513770-AKB5E	0.96 U	15 U								
ICS-P18-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513771-AKB5F										
ICS-P18-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513772-AKB5G	0.96 U	0.96 U	3.8 U	3.8 U	**43**	**43**	**27**	3.8 U	3.8 U	113
ICS-P18-SO-42-121614	soil-pushprobe	12/16/2014	41 - 43' (archvd soil)	1513773-AKB5H			4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P19-SO-13-121614	soil-pushprobe	12/16/2014	12 - 14' (archvd soil)	1513774-AKB5I	0.98 U	0.98 U								
ICS-P19-SO-22-121614	soil-pushprobe	12/16/2014	21 - 23' (archvd soil)	1513775-AKB5J			4.0 U	4.0 U	9.9 U	**12**	**26**	4.0 U	4.0 U	38
ICS-P28-SO-22-121514	soil-pushprobe	12/15/2014	21 - 23' (archvd soil)	1513776-AKB5K			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P27-SO-7-111114	soil-pushprobe	11/11/2014	6 - 8' (archvd soil)	1513777-AKB5L										
ICS-P27-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513778-AKB5M	0.98 U	0.98 U								
ICS-P25-SO-13-111114	soil-pushprobe	11/11/2014	12 - 14' (archvd soil)	1513779-AKB5N			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P17-SO-7-111214	soil-pushprobe	11/12/2014	6.7 - 8' (archvd soil)	1513780-AKB5O			130 U	130 U	650 U	**2900**	**5500**	130 U	130 U	8400
ICS-P17-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513781-AKB5P			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P17-SO-22-111214	soil-pushprobe	11/12/2014	21 - 23' (archvd soil)	1513782-AKB5Q			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P20-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513783-AKB5R			3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P23-SO-13-111214	soil-pushprobe	11/12/2014	12 - 14' (archvd soil)	1513784-AKB5S	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P29-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513785-AKB6A										
ICS-P29-SO-22-121014	soil-pushprobe	12/10/2014	21 - 23' (archvd soil)	1513786-AKB6B	0.96 U	0.96 U	19 U	19 U	**530**	**600**	**140**	19 U	19 U	1270
ICS-P29-SO-42-121014	soil-pushprobe	12/10/2014	41 - 43' (archvd soil)	1513787-AKB6C			3.8 U	3.8 U	**6.4**	**5.0**	**3.0 J**	3.8 U	3.8 U	14.4
ICS-P29-SO-50-121014	soil-pushprobe	12/10/2014	49 - 50' (archvd soil)	1513788-AKB6D			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P16-SO-7-121014	soil-pushprobe	12/10/2014	6 - 8' (archvd soil)	1513789-AKB6E	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P21-SO-22-120814	soil-pushprobe	12/8/2014	21 - 23' (archvd soil)	1513790-AKB6F			4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
ICS-P22-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513791-AKB6G	2.6 U	2.8 U	20 U	20 U	**370**	**540**	**240**	20 U	20 U	1150
ICS-P22-SO-13-111414	soil-pushprobe	11/14/2014	12 - 14' (archvd soil)	1513792-AKB6H			3.9 U	3.9 U	3.9 U	**4.1**	**2.5 J**	3.9 U	3.9 U	6.6
ICS-P30-SO-10-120914	soil-pushprobe	12/9/2014	9 - 10' (archvd soil)	1513793-AKB6I										
ICS-P30-SO-42-120914	soil-pushprobe	12/9/2014	41 - 43' (archvd soil)	1513794-AKB6J			3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P30-SO-50-120914	soil-pushprobe	12/9/2014	49 - 50' (archvd soil)	1513795-AKB6K			3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-P30-SO-22-120914	soil-pushprobe	12/9/2014	21 - 23' (archvd soil)	1513796-AKB6L			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P14-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513797-AKB6M			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-P15-SO-7-111414	soil-pushprobe	11/14/2014	6 - 8' (archvd soil)	1513798-AKB6N			3.8 U	3.8 U	5.8 U	**5.2**	**2.3 J**	3.8 U	3.8 U	7.5

Blue-highlighted data validated from non-archived sample analyses.

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: January 19, 2016 *(revision of 11/19/15 report)*

SUBJECT: Data Evaluation/Assessment for 14 Subsurface Push-Probe Soils, 2 Stormwaters and 2 Estuarine/Embayment Waters Collected during September-October 2015 from the ICS / [former] NW Cooperage Site, Seattle, WA ***(revised)***

Fourteen subsurface soil composites, two stormwater samples, and two estuarine/surfacewater samples were collected and submitted for chemical characterization by Dalton, Olmsted & Fuglevand (DOF) staff during September and October, 2015. All samples were delivered in three separate delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 4 hours of collection for the water samples and 4 days for the soils. Samples were received on ice at temperatures between 0.4 and 5.7 °C, and maintained at the project laboratory at 4 °C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. Two trip/transport blanks were submitted and analyzed for selected parameters.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Tables SAP-4 and SAP-6 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. phenols in H_2O	SW846-M.8041	SVOC's (PAH's in H_2O & selected analytes in soils)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. pesticides	SW846-M.8081B
metals in H_2O (excl Hg)	SW846-M.6010C & EPA 200.8	Hg (low-level H_2O)	SW846-M.7470A
		Hg (soils)	SW846-M.7471A
metals in soils (excl Hg)	SW846-M.6020	Cl & SO_4	EPA 300.0
total petroleum HC's	NWTPH-Dx & -G		

Semivolatile organic compound (SVOC's) analyses were performed by SW846-M.8270D in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed (on the same extract, in the case of stormwaters) and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. Method 8270-SIM was also performed on separate soil extracts to improve lower reporting limits for dichlorobenzenes, 1,2,4-trichlorobenzene, butylbenzylphthalate, 2-methylphenol, 2,4-dimethylphenol, N-nitrosodiphenylamine, benzyl alcohol and pentachlorophenol. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C) for both waters and soils. The attached results table reports only the results for the dichloro- and trichloro-benzenes in water from the VOC's analyses due to lower reporting limits. Soils dichlorobenzenes and 1,2,4-trichlorobenzene were reported from the SVOC's analyses (M.8270-SIM) due to greater recoveries. Naphthalene in water results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC's (M.8270-SIM). Naphthalene in soils by SW846-M.8260C (VOC's) was not reported due to greater recoveries exhibited by the SVOC's method (M.8270D). Hexachlorobutadiene (HCBD) and hexachlorobenzene (HCB) in water were analyzed by both M.8270D and M.8081B; however, only the results from M.8081B are reported here due to lower reporting limits. While HCBD was analyzed by M.8260C in soils and water, the HCBD results from the analyses by M.8081B are reported here due to lower reporting limits. Chlorinated pesticides (including HCBD and HCB by M.8081B) analyses in soils were supplemented with extract cleanup by GPC (gel permeation chromatography). The lower reporting limit for chlorinated phenols in water (2,4,6-trichlorophenol and pentachlorophenol in H_2O) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and strong-acid digestion cleanup steps. NWTPH-G was analyzed by purge & trap and GC/MS. PCB's (by M.8082) was determined by including the extract cleanup options of elemental sulfur (S_x) removal, strong-acid digestion, and silica gel chromatography prior to instrumental analyses.

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be acceptable or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. ICS-Ju-4-SO-100715 exhibited elevated reporting limits for all chlorinated pesticides and application of the "J_P" qualifier code for cis-Chlordane due to variability in the dual column confirmation analyses (> 40RPD [relative percent difference] in dual-column quantitative confirmation for PCB mixtures) consequent to interferences associated with high PCB's levels. Analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range are qualified as estimated with the "J" qualifier code. *This evaluation includes revised lower reporting limits (LOQ's) for chlorinated pesticides, hexachlorobutadiene, and hexachlorobenzene (M.8081B analytes) in water; generally a reduction by a factor of 4. This is*

consequent to a previous and corrected error in the original laboratory report for M.8081B analytes in water only.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are ≤ 20 samples). All method blanks reported nondetects, with the exception of *bis*(2-ethylhexyl)phthalate at 14 µg/L and chloride at 0.1 mg/L in waters, and the following VOC parameters in solids – 1,2-dichlorobenzene (0.5 µg/kg), 1,4-dichlorobenzene (0.6 µg/kg), HCBD (1.0 & 0.5 µg/kg), n-butylbenzene (0.6 µg/kg), 1,2,4-trichlorobenzene (1.5 & 0.8 µg/kg), naphthalene (1.1 & 1.8 µg/kg), and 1,2,3-trichlorobenzene (1.0 & 1.5 µg/kg). Any associated parameter detections would require qualification of results with the "J_B" qualifier code, however, none of the reported results are [adversely] affected. No results required qualification due to method blanks performance.

Two **trip/transport blanks** were generated and submitted for analysis and determination of potential contamination during handling of stormwater and soil VOC's and TPH-G. Results of these analyses are reported in the attached table. Only methylene chloride and carbon disulfide were detected at 0.6 and 0.2 µg/L, respectively, in the blank associated with the soils. The detected levels were sufficiently low to not adversely affect sample results. No sample results required qualification due to blank or background contamination.

Laboratory control samples (**LCS/LCSD**) were analyzed for all sample matrices and parameter groups, and recoveries were within specified ranges for most analytes. Recoveries for parameters outside specification are noted for the VOC LCS/LCSD associated with the stormwater samples. Recoveries for out-of-specification parameters ranged from 51% to 255%. All associated parameters are reported as nondetected in project samples. Matrix spike and matrix spike duplicate (**MS/MSD**) analyses were performed for SVOC's, chlorinated pesticides, PCB's, TPH-Dx, TPH-G, and metals in soils. All MS/MSD recoveries are within specification, with the exception of benzyl alcohol in ICS-Fl-21-SO-100815 and antimony (Sb) in ICS-Ap-10-SO-100515. Benzyl alcohol matrix spike and matrix spike duplicate recoveries in soil measured by SW846-M.8270D and SW846-M.8270-SIM in ICS-Fl-21-SO-100815 are 0%. LCS benzyl alcohol recovery in soil is determined to be acceptable at 88%. Consequently, soil benzyl alcohol result for ICS-Fl-21-SO-100815 (nondetected at 20 µg/kg) is determined to be unusable and rejected with the "R" qualifier code. Results for benzyl alcohol in the other soil samples and water are acceptable and do not require qualification. Soil antimony matrix spike recovery in ICS-Ap-10-SO-100515 is reported lower-than-specified at 0.6%. The associated LCS recovery for antimony in solids is reported at 101%. This behavior for Sb is typical due to formation of Sb-SiO_4 complexes in the presence of soil minerals; however, no detections for Sb are reported and no qualification of results is required for antimony in soils.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols. Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated

pesticides and PCB's analytical performance; *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses, and trifluorotoluene and bromobenzene used for evaluating TPH-G analytical performance. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM (M.8270D-SIM) utilized the surrogate compounds d_{10}-2-methylnaphthalene, d_{10}-fluoranthene and d_{14}-dibenz(a,h)anthracene. Selected organic parameters by GC/MS-SIM (M.8270D-SIM) utilized the two surrogate compounds 2-fluorophenol and d_{14}-*p*-terphenyl. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All surrogate compound recoveries are determined to be within specified limits, with the exception of a slightly high recovery (130-133%) for d_4-1,2-dichloroethane in VOC's analyses for the LCS and the two project stormwater samples. All other associated surrogate compound recoveries for these samples were acceptable; thus, no associated VOC results required qualification. No qualification of results was required due to surrogate compounds performance.

Continuing calibration verification (CCV or CCAL) checks revealed acceptable responses (CCV RPD compared to initial calibration responses < 20). Initial calibration verifications (ICV's) revealed out-of-specification responses for vinyl chloride, chloroethane, trichlorofluoromethane, acetone, methylene chloride, chloroform, 1,2,3-trichloropropane, acrolein, 1,2,4-trichlorobenzene, naphthalene and 1,2,3-trichlorobenzene for VOC's analyses in stormwater samples. All positive hits/detections for these analytes in associated samples were qualified as estimates with the "J_Q" qualifier code. Acetone reported in ICS-OUTF-SW-092215 at 7.6 µg/L is qualified with the "J_Q" qualifier code.

TPH-Dx and TPH-G analyses indicate presence of relatively little, if any, detectable gasoline or diesel fuel in stormwater and soil samples analyzed. Three soils showed presence of lubricant-range hydrocarbons resembling mineral oil.

Sample results reported here are determined to be in general compliance with method and SAP requirements, with the exceptions noted above. All reported data (attached) with the associated qualifiers are considered usable for the intended purposes of the project. *The attached sample results table includes corrected and revised lower reporting limits (LOQ's) for chlorinated pesticides, hexachlorobutadiene, and hexachlorobenzene in water.*

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	% solids	Chloride	Sulfate	Antimony 7440-36-0		Arsenic 7440-38-2		Beryllium 7440-41-7		Cadmium 7440-43-9	
					%	mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-OUTF-SW-092215	stormwater	9/22/15	nonfiltered	1516888-AMW5A	-	**7340**	**963**		**2**		2 U		2 U		1 U
ICS-OUTF-SW-092215	stormwater	9/22/15	nonfiltered	1517733-ANM3A	-										
ICS-OUTF-SW-092215	stormwater	9/22/15	field-filtered, 0.45 µm	1516890-AMW5C	-			**3**		2 U		2 U		1 U	
ICS-OUTF-SW-092215	stormwater	9/22/15	field-filtered, 0.45 µm	1517735-ANM3C	-										
ICS-MH1-SW-092215	stormwater	9/22/15	nonfiltered	1516889-AMW5B	-	**4640**	**542**		**5**		2 U		2 U		1 U
ICS-MH1-SW-092215	stormwater	9/22/15	nonfiltered	1517734-ANM3B	-										
ICS-MH1-SW-092215	stormwater	9/22/15	field-filtered, 0.45 µm	1516891-AMW5D	-			**5**		2 U		2 U		1 U	
ICS-MH1-SW-092215	stormwater	9/22/15	field-filtered, 0.45 µm	1517736-ANM3D	-										
Trip Blank	water	9/22/15	trip/transport blank	1516892-AMW5E	-										
ICS-UPPER-DR-101415	estuarine, 2' below surface	10/14/15	nonfiltered	1519121-AOO8A	-	**3640**	**509**								
ICS-LOWER-DR-101415	estuarine, 2' above mudline	10/14/15	nonfiltered	1519122-AOO8B	-	**9020**	**1220**								
									mg/kg, dry		mg/kg, dry		mg/kg, dry		mg/kg, dry
ICS-Ap-10-SO-100515	soil-pushprobe	10/5/15	9 - 10'	1518552-AOE4A	71				0.3 U		**2.6**		0.3 U		0.1 U
ICS-Ap-10-SO-100515	soil-pushprobe	10/5/15	9 - 10'	1518567-AOE4P	71										
ICS-Bp-10-SO-100515	soil-pushprobe	10/5/15	9 - 10'	1518553-AOE4B	79				0.2 U		**3.9**		0.02 U		0.1 U
ICS-Bp-10-SO-100515	soil-pushprobe	10/5/15	9 - 10'	1518568-AOE4Q	79										
ICS-Cp-10-SO-100715	soil-pushprobe	10/7/15	9 - 10'	1518554-AOE4C	69				0.3 U		**5.0**		0.3 U		0.1 U
ICS-Cp-10-SO-100715	soil-pushprobe	10/7/15	9 - 10'	1518569-AOE4R	69										
ICS-Du-10-SO-100515	soil-pushprobe	10/5/15	9 - 10'	1518555-AOE4D	76				0.3 U		**2.4**		0.3 U		0.1 U
ICS-Du-10-SO-100515	soil-pushprobe	10/5/15	9 - 10'	1518570-AOE4S	76										
ICS-Du-16-SO-100515	soil-pushprobe	10/5/15	15 - 17'	1518556-AOE4E	82				0.2 U		**1.1**		0.2 U		0.1 U
ICS-Du-16-SO-100515	soil-pushprobe	10/5/15	15 - 17'	1518571-AOE4T	82										
ICS-Fl-4-SO-100815	soil-pushprobe	10/8/15	3 - 5'	1518557-AOE4F	95				0.2 U		**2.2**		0.2 U		0.1 U
ICS-Fl-4-SO-100815	soil-pushprobe	10/8/15	3 - 5'	1518572-AOE4U	95										
ICS-Fl-7-SO-100815	soil-pushprobe	10/8/15	6 - 8'	1518558-AOE4G	81				0.2 U		**3.3**		0.2 U		0.1 U
ICS-Fl-7-SO-100815	soil-pushprobe	10/8/15	6 - 8'	1518573-AOE4V	81										
ICS-Fl-10-SO-100815	soil-pushprobe	10/8/15	9 - 10'	1518559-AOE4H	84				0.2 U		**4.0**		0.2 U		0.1 U
ICS-Fl-10-SO-100815	soil-pushprobe	10/8/15	9 - 10'	1518574-AOE4W	84										
ICS-Fl-13-SO-100815	soil-pushprobe	10/8/15	12 - 14'	1518560-AOE4I	77				0.2 U		**2.9**		0.2 U		0.1 U
ICS-Fl-13-SO-100815	soil-pushprobe	10/8/15	12 - 14'	1518575-AOE4X	77										
ICS-Fl-16-SO-100815	soil-pushprobe	10/8/15	15.5 - 17'	1518561-AOE4J	81				0.2 U		**1.3**		0.2 U		0.1 U
ICS-Fl-16-SO-100815	soil-pushprobe	10/8/15	15.5 - 17'	1518576-AOE4Y	81										
ICS-Fl-21-SO-100815	soil-pushprobe	10/8/15	20 - 22'	1518562-AOE4K	78				0.3 U		**4.7**		0.3 U		0.1 U
ICS-Fl-21-SO-100815	soil-pushprobe	10/8/15	20 - 22'	1518577-AOE4Z	78										
ICS-Ju-4-SO-100715	soil-pushprobe	10/7/15	3 - 4'	1518563-AOE4L	85				0.2 U		**4.5**		**0.2**		**0.2**
ICS-Ju-4-SO-100715	soil-pushprobe	10/7/15	3 - 4'	1518578-AOE4AA	85										
ICS-Ju-10-SO-100715	soil-pushprobe	10/7/15	10 - 11'	1518564-AOE4M	73				0.2 U		**12.0**		0.2 U		**0.9**
ICS-Ju-10-SO-100715	soil-pushprobe	10/7/15	10 - 11'	1518579-AOE4AB	73										
ICS-Ju-15-SO-100715	soil-pushprobe	10/7/15	15 - 16'	1518565-AOE4N	74				0.3 U		**2.4**		0.3 U		0.1 U
ICS-Ju-15-SO-100715	soil-pushprobe	10/7/15	15 - 16'	1518580-AOE4AC	74										
Trip Blank	water; *units = µg/L*	10/9/15	-	1518566-AOE4O	-										
Trip Blank	water; *units = mg/L*	10/9/15	-	1518581-AOE4AD	-										

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Calcium 7440-70-2 total µg/L	Chromium 7440-47-3 diss. µg/L	Chromium 7440-47-3 total µg/L	Copper 7440-50-8 diss. µg/L	Copper 7440-50-8 total µg/L	Lead 7439-92-1 diss. µg/L	Lead 7439-92-1 total µg/L	Magnesium 7439-95-4 total µg/L	Mercury 7439-97-6 diss. ng/L	Mercury 7439-97-6 total ng/L	Nickel 7440-02-0 diss. µg/L	Nickel 7440-02-0 total µg/L	Silver 7440-22-4 diss. µg/L	Silver 7440-22-4 total µg/L	Sodium 7440-23-5 total µg/L	Zinc 7440-66-6 diss. µg/L	Zinc 7440-66-6 total µg/L	Hardness mg-$CaCO_3$/L
ICS-OUTF-SW-092215	**174,000**		**1.5**		5 U		1 U	**484,000**				5 U		2 U	**4,170,000**		40 U	2420
ICS-OUTF-SW-092215										20.0 U								
ICS-OUTF-SW-092215		5 U		5 U		1 U					5 U		2 U			40 U		
ICS-OUTF-SW-092215									20.0 U									
ICS-MH1-SW-092215	**91,500**		5 U		**6**		1 U	**266,000**				5 U		2 U	**2,420,000**		40 U	1320
ICS-MH1-SW-092215										20.0 U								
ICS-MH1-SW-092215		5 U		5 U		1 U					5 U		2 U			40 U		
ICS-MH1-SW-092215									20.0 U									
Trip Blank																		
ICS-UPPER-DR-101415	**86,400**							**248,000**							**2,250,000**			1230
ICS-LOWER-DR-101415	**181,000**							**554,000**							**5,110,000**			2720

	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry	mg/kg, dry
ICS-Ap-10-SO-100515	**12.3**	**16.4**	**2.5**	0.03 U	**8.6**	0.3 U	**21**
ICS-Ap-10-SO-100515							
ICS-Bp-10-SO-100515	**10.5**	**14.3**	**2.2**	0.02 U	**11.2**	0.2 U	**24**
ICS-Bp-10-SO-100515							
ICS-Cp-10-SO-100715	**14.4**	**20.7**	**4.1**	**0.03**	**9.5**	0.3 U	**25**
ICS-Cp-10-SO-100715							
ICS-Du-10-SO-100515	**12.8**	**18.5**	**3.0**	**0.03**	**8.6**	0.3 U	**22**
ICS-Du-10-SO-100515							
ICS-Du-16-SO-100515	**9.1**	**7.9**	**1.1**	0.02 U	**5.7**	0.2 U	**19**
ICS-Du-16-SO-100515							
ICS-Fl-4-SO-100815	**8.1**	**7.7**	**1.3**	0.02 U	**7.0**	0.2 U	**20**
ICS-Fl-4-SO-100815							
ICS-Fl-7-SO-100815	**10.5**	**15.1**	**2.1**	0.03 U	**10.8**	0.2 U	**25**
ICS-Fl-7-SO-100815							
ICS-Fl-10-SO-100815	**12.9**	**12.0**	**1.8**	0.03 U	**9.1**	0.2 U	**25**
ICS-Fl-10-SO-100815							
ICS-Fl-13-SO-100815	**11.6**	**15.3**	**1.9**	0.03 U	**12.4**	0.2 U	**25**
ICS-Fl-13-SO-100815							
ICS-Fl-16-SO-100815	**9.9**	**9.2**	**1.3**	0.03 U	**8.0**	0.2 U	**23**
ICS-Fl-16-SO-100815							
ICS-Fl-21-SO-100815	**14.2**	**11.0**	**1.5**	0.03 U	**10.7**	0.3 U	**23**
ICS-Fl-21-SO-100815							
ICS-Ju-4-SO-100715	**23.4**	**23.7**	**48.6**	**0.10**	**22.2**	0.2 U	**66**
ICS-Ju-4-SO-100715							
ICS-Ju-10-SO-100715	**40.2**	**161**	**401**	**0.07**	**16.4**	**0.4**	**193**
ICS-Ju-10-SO-100715							
ICS-Ju-15-SO-100715	**15.2**	**13.6**	**2.3**	0.03 U	**14.7**	0.3 U	**29**
ICS-Ju-15-SO-100715							
Trip Blank							
Trip Blank							

U = nondetected at the associated lower reporting limit.

Remedial Investigation

ICS / [former] NW Cooperage, Seattle, WA

Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Total Petroleum Hydrocarbons **			Chloro-methane 74-87-3	Bromo-methane 74-83-9	Vinyl chloride 75-01-4	Chloro-ethane 75-00-3	Methylene chloride 75-09-2	Acetone 67-64-1	Carbon disulfide 75-15-0	1,1-Dichloro-ethene 75-35-4	1,1-Dichloro-ethane 75-34-3	*trans* -1,2-Dichloroethene 156-60-5	*cis* -1,2-Dichloroethene 156-59-2	Chloroform 67-66-3
	Gasoline-range	Diesel-range	Lube-range												
	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ICS-OUTF-SW-092215	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**7.6 J_Q**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-MH1-SW-092215	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
Trip Blank	0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-UPPER-DR-101415															
ICS-LOWER-DR-101415															
	mg/kg, dry	mg/kg, dry	mg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515		7.0 U	14 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	**83**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Ap-10-SO-100515	12 U														
ICS-Bp-10-SO-100515		6.3 U	13 U	1.2 U	**0.5 J**	1.2 U	1.2 U	2.5 U	**94**	**2.4**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Bp-10-SO-100515	5.9 U														
ICS-Cp-10-SO-100715		11	25	**3.2**	**2.1**	2.0 U	2.0 U	4.0 U	**57**	**7.8**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-Cp-10-SO-100715	12 U														
ICS-Du-10-SO-100515		16	**32**	1.6 U	**0.6 J**	1.6 U	1.6 U	3.1 U	**76**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-Du-10-SO-100515	10														
ICS-Du-16-SO-100515		6.1 U	12 U	1.1 U	1.1 U	1.1 U	1.1 U	2.3 U	**42**	**13**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-Du-16-SO-100515	4.6 J														
ICS-Fl-4-SO-100815		5.3 U	10 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	**16**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-Fl-4-SO-100815	4.2 J														
ICS-Fl-7-SO-100815		6.2 U	12 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	**52**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-Fl-7-SO-100815	6.4 J														
ICS-Fl-10-SO-100815		6.0 U	12 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	**30**	**10**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-Fl-10-SO-100815	6.3 U														
ICS-Fl-13-SO-100815		6.5 U	13 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	**14**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-Fl-13-SO-100815	8.5 U														
ICS-Fl-16-SO-100815		6.1 U	12 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	**24**	**3.8**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-Fl-16-SO-100815	7.8 U														
ICS-Fl-21-SO-100815		6.4 U	13 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	6.0 U	**2.9**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Fl-21-SO-100815	9.1 U														
ICS-Ju-4-SO-100715		14,000	**32,000**	2.1 U	2.1 U	2.1 U	2.1 U	4.3 U	**220**	**11**	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
ICS-Ju-4-SO-100715	28														
ICS-Ju-10-SO-100715		79	**150**	**6.2**	2.4 U	2.4 U	2.4 U	4.7 U	**120**	**9.9**	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
ICS-Ju-10-SO-100715	92														
ICS-Ju-15-SO-100715		6.7 U	13 U	**1.0 J**	1.2 U	1.2 U	1.2 U	2.5 U	**28**	**9.1**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Ju-15-SO-100715	8.9 U														
Trip Blank				1.0 U	1.0 U	1.0 U	1.0 U	**0.6 J**	10 U	**0.2 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trip Blank	0.10 U														

*** bold-typed values resemble corresponding [weathered] petroleum hydrocarbon mixture*

J = estimate associated with value less than the verifiable lower quantitation limit.

J_Q = estimate; due to noncompliant ICV check.

U = nondetected at the associated lower reporting limit.

Remedial Investigation

ICS / [former] NW Cooperage, Seattle, WA

Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-OUTF-SW-092215	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-MH1-SW-092215	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-UPPER-DR-101415															
ICS-LOWER-DR-101415															
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	1.2 U	**17**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**0.7 J**	1.2 U	1.2 U	6.0 U	6.0 U
ICS-Ap-10-SO-100515															
ICS-Bp-10-SO-100515	1.2 U	**9.7**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.2 U	6.2 U
ICS-Bp-10-SO-100515															
ICS-Cp-10-SO-100715	2.0 U	**11**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U
ICS-Cp-10-SO-100715															
ICS-Du-10-SO-100515	1.6 U	**17**	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	7.8 U	7.8 U
ICS-Du-10-SO-100515															
ICS-Du-16-SO-100515	1.1 U	**6.7**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.7 U	5.7 U
ICS-Du-16-SO-100515															
ICS-Fl-4-SO-100815	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	7.4 U
ICS-Fl-4-SO-100815															
ICS-Fl-7-SO-100815	1.8 U	9.1 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.1 U	9.1 U
ICS-Fl-7-SO-100815															
ICS-Fl-10-SO-100815	1.5 U	**4.1 J**	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.6 U	7.6 U
ICS-Fl-10-SO-100815															
ICS-Fl-13-SO-100815	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	7.7 U
ICS-Fl-13-SO-100815															
ICS-Fl-16-SO-100815	1.3 U	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**1.0 J**	1.3 U	1.3 U	6.7 U	6.7 U
ICS-Fl-16-SO-100815															
ICS-Fl-21-SO-100815	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**1.5**	1.2 U	1.2 U	6.0 U	6.0 U
ICS-Fl-21-SO-100815															
ICS-Ju-4-SO-100715	2.1 U	**18**	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	**3.9**	2.1 U	2.1 U	11 U	11 U
ICS-Ju-4-SO-100715															
ICS-Ju-10-SO-100715	2.4 U	**25**	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	**4.1**	2.4 U	2.4 U	12 U	12 U
ICS-Ju-10-SO-100715															
ICS-Ju-15-SO-100715	1.2 U	**3.6 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.1 U	6.1 U
ICS-Ju-15-SO-100715															
Trip Blank	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Trip Blank															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-OUTF-SW-092215	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-OUTF-SW-092215																
ICS-OUTF-SW-092215																
ICS-OUTF-SW-092215																
ICS-MH1-SW-092215	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MH1-SW-092215																
ICS-MH1-SW-092215																
ICS-MH1-SW-092215																
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-UPPER-DR-101415																
ICS-LOWER-DR-101415																
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	1.2 U	1.2 U	**1.1 J**	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	**0.8 J**	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	60 U	2.4 U	1.2 U
ICS-Ap-10-SO-100515																
ICS-Bp-10-SO-100515	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	62 U	2.5 U	1.2 U
ICS-Bp-10-SO-100515																
ICS-Cp-10-SO-100715	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	100 U	4.0 U	2.0 U
ICS-Cp-10-SO-100715																
ICS-Du-10-SO-100515	1.6 U	1.6 U	**1.3 J**	1.6 U	1.6 U	1.6 U	1.6 U	3.1 U	1.6 U	1.6 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	78 U	3.1 U	1.6 U
ICS-Du-10-SO-100515																
ICS-Du-16-SO-100515	1.1 U	1.1 U	**0.7 J**	1.1 U	1.1 U	1.1 U	1.1 U	2.3 U	1.1 U	1.1 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	57 U	2.3 U	1.1 U
ICS-Du-16-SO-100515																
ICS-Fl-4-SO-100815	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	74 U	3.0 U	1.5 U
ICS-Fl-4-SO-100815																
ICS-Fl-7-SO-100815	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	1.8 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	91 U	3.6 U	1.8 U
ICS-Fl-7-SO-100815																
ICS-Fl-10-SO-100815	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	76 U	3.0 U	1.5 U
ICS-Fl-10-SO-100815																
ICS-Fl-13-SO-100815	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	77 U	3.1 U	1.5 U
ICS-Fl-13-SO-100815																
ICS-Fl-16-SO-100815	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	1.3 U	1.3 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	67 U	2.7 U	1.3 U
ICS-Fl-16-SO-100815																
ICS-Fl-21-SO-100815	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	60 U	2.4 U	1.2 U
ICS-Fl-21-SO-100815																
ICS-Ju-4-SO-100715	2.1 U	2.1 U	**5.8**	2.1 U	**9.6**	2.1 U	2.1 U	4.3 U	**11**	**2.9**	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	110 U	4.3 U	2.1 U
ICS-Ju-4-SO-100715																
ICS-Ju-10-SO-100715	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	4.7 U	2.4 U	**1.3 J**	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	120 U	4.7 U	2.4 U
ICS-Ju-10-SO-100715																
ICS-Ju-15-SO-100715	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	*(see SVOC's)*	61 U	2.5 U	1.2 U
ICS-Ju-15-SO-100715																
Trip Blank	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	2.0 U	1.0 U
Trip Blank																

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation

ICS / [former] NW Cooperage, Seattle, WA

Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans* -1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	Hexachloro-butadiene 87-68-3 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-OUTF-SW-092215	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	*(see Cl pest.)*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-OUTF-SW-092215																
ICS-OUTF-SW-092215																
ICS-OUTF-SW-092215																
ICS-MH1-SW-092215	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	*(see Cl pest.)*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MH1-SW-092215																
ICS-MH1-SW-092215																
ICS-MH1-SW-092215																
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-UPPER-DR-101415																
ICS-LOWER-DR-101415																
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	1.2 U	1.2 U	2.4 U	6.0 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Ap-10-SO-100515																
ICS-Bp-10-SO-100515	1.2 U	1.2 U	2.5 U	6.2 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Bp-10-SO-100515																
ICS-Cp-10-SO-100715	2.0 U	2.0 U	4.0 U	10 U	2.0 U	2.0 U	*(see Cl pest.)*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
ICS-Cp-10-SO-100715																
ICS-Du-10-SO-100515	1.6 U	1.6 U	3.1 U	7.8 U	1.6 U	1.6 U	*(see Cl pest.)*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
ICS-Du-10-SO-100515																
ICS-Du-16-SO-100515	1.1 U	1.1 U	2.3 U	5.7 U	1.1 U	1.1 U	*(see Cl pest.)*	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ICS-Du-16-SO-100515																
ICS-Fl-4-SO-100815	1.5 U	1.5 U	3.0 U	7.4 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-Fl-4-SO-100815																
ICS-Fl-7-SO-100815	1.8 U	1.8 U	3.6 U	9.1 U	1.8 U	1.8 U	*(see Cl pest.)*	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ICS-Fl-7-SO-100815																
ICS-Fl-10-SO-100815	1.5 U	1.5 U	3.0 U	7.6 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-Fl-10-SO-100815																
ICS-Fl-13-SO-100815	1.5 U	1.5 U	3.1 U	7.7 U	1.5 U	1.5 U	*(see Cl pest.)*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ICS-Fl-13-SO-100815																
ICS-Fl-16-SO-100815	1.3 U	1.3 U	2.7 U	6.7 U	1.3 U	1.3 U	*(see Cl pest.)*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
ICS-Fl-16-SO-100815																
ICS-Fl-21-SO-100815	1.2 U	1.2 U	2.4 U	6.0 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Fl-21-SO-100815																
ICS-Ju-4-SO-100715	2.1 U	2.1 U	4.3 U	11 U	2.1 U	**5.8**	*(see Cl pest.)*	2.1 U	2.1 U	2.1 U	2.1 U	**2.3**	**1.7 J**	2.1 U	2.1 U	2.1 U
ICS-Ju-4-SO-100715																
ICS-Ju-10-SO-100715	2.4 U	2.4 U	4.7 U	12 U	2.4 U	**3.0**	*(see Cl pest.)*	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	**2.2 J**	2.4 U	2.4 U	2.4 U
ICS-Ju-10-SO-100715																
ICS-Ju-15-SO-100715	1.2 U	1.2 U	2.5 U	6.1 U	1.2 U	1.2 U	*(see Cl pest.)*	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
ICS-Ju-15-SO-100715																
Trip Blank	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trip Blank																

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation

ICS / [former] NW Cooperage, Seattle, WA

Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	*tert*-Butyl-benzene 98-06-6 µg/L	*sec*-Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	Naphthalene 91-20-3 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Benzyl alcohol 100-51-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L
ICS-OUTF-SW-092215	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	*(see SVOC's)*	0.50 U	1.0 U	1.0 U	*(see VOC's)*	*(see VOC's)*	2.0 U	*(see VOC's)*	1.0 U	2.0 U
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-MH1-SW-092215	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	*(see SVOC's)*	0.50 U	1.0 U	1.0 U	*(see VOC's)*	*(see VOC's)*	2.0 U	*(see VOC's)*	1.0 U	2.0 U
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.50 U								
ICS-UPPER-DR-101415															
ICS-LOWER-DR-101415															
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	1.2 U	1.2 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	6.0 U	**13 J**	19 U	**8.3**	**26**	19 U	**3.8 J**	**3.1 J**	19 U
ICS-Ap-10-SO-100515															
ICS-Bp-10-SO-100515	1.2 U	1.2 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	6.2 U	**12 J**	20 U	4.9 U	4.9 U	20 U	4.9 U	4.9 U	20 U
ICS-Bp-10-SO-100515															
ICS-Cp-10-SO-100715	2.0 U	2.0 U	2.0 U	2.0 U	*(see SVOC's)*	*(see SVOC's)*	10 U	**38**	19 U	4.8 U	4.8 U	**66**	4.8 U	**4.8**	**32**
ICS-Cp-10-SO-100715															
ICS-Du-10-SO-100515	1.6 U	1.6 U	1.6 U	1.6 U	*(see SVOC's)*	*(see SVOC's)*	7.8 U	**16 J**	19 U	**4.0 J**	**11**	19 U	4.7 U	4.7 U	19 U
ICS-Du-10-SO-100515															
ICS-Du-16-SO-100515	1.1 U	1.1 U	1.1 U	1.1 U	*(see SVOC's)*	*(see SVOC's)*	5.7 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U
ICS-Du-16-SO-100515															
ICS-Fl-4-SO-100815	1.5 U	1.5 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	7.4 U	19 U	19 U	4.8 U	4.8 U	19 U	4.8 U	4.8 U	19 U
ICS-Fl-4-SO-100815															
ICS-Fl-7-SO-100815	1.8 U	1.8 U	1.8 U	1.8 U	*(see SVOC's)*	*(see SVOC's)*	9.1 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U
ICS-Fl-7-SO-100815															
ICS-Fl-10-SO-100815	1.5 U	1.5 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	7.6 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U
ICS-Fl-10-SO-100815															
ICS-Fl-13-SO-100815	1.5 U	1.5 U	1.5 U	1.5 U	*(see SVOC's)*	*(see SVOC's)*	7.7 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U
ICS-Fl-13-SO-100815															
ICS-Fl-16-SO-100815	1.3 U	1.3 U	1.3 U	1.3 U	*(see SVOC's)*	*(see SVOC's)*	6.7 U	19 U	19 U	4.7 U	4.7 U	19 U	4.7 U	4.7 U	19 U
ICS-Fl-16-SO-100815															
ICS-Fl-21-SO-100815	1.2 U	1.2 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	6.0 U	20 U	20 U	4.9 U	4.9 U	R	4.9 U	4.9 U	20 U
ICS-Fl-21-SO-100815															
ICS-Ju-4-SO-100715	2.1 U	2.1 U	**4.4**	2.1 U	*(see SVOC's)*	*(see SVOC's)*	11 U	**1500**	120 U	**32**	**150**	120 U	**950**	**1000**	**7700**
ICS-Ju-4-SO-100715															
ICS-Ju-10-SO-100715	2.4 U	**3.1**	**1.5 J**	**2.9**	*(see SVOC's)*	*(see SVOC's)*	12 U	**28**	20 U	**2.9 J**	**5.8 J**	20 U	**5.8 J**	4.9 U	**67**
ICS-Ju-10-SO-100715															
ICS-Ju-15-SO-100715	1.2 U	1.2 U	1.2 U	1.2 U	*(see SVOC's)*	*(see SVOC's)*	6.1 U	**8.7 J**	19 U	4.8 U	**4.8 J**	19 U	**2.9 J**	4.8 U	19 U
ICS-Ju-15-SO-100715															
Trip Blank	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U								
Trip Blank															

J = estimate associated with value less than the verifiable lower quantitation limit.
R = result rejected due to low MS recovery.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	Naphthalene 91-20-3 µg/L	Hexachloro-butadiene 87-68-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L
ICS-OUTF-SW-092215	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U	3.0 U	*(see VOC's)*	0.10 U	*(see Cl pest.)*	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-MH1-SW-092215	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U	20 U	3.0 U	*(see VOC's)*	0.10 U	*(see Cl pest.)*	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
Trip Blank															
ICS-UPPER-DR-101415															
ICS-LOWER-DR-101415															
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry		µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	19 U	19 U	19 U	19 U	23 U	**220**	94 U	4.7 U	**5.6 J**		94 U	**5.6 J**	94 U	94 U	19 U
ICS-Ap-10-SO-100515															
ICS-Bp-10-SO-100515	20 U	20 U	20 U	20 U	24 U	200 U	97 U	4.9 U	20 U		97 U	**7.8 J**	97 U	97 U	20 U
ICS-Bp-10-SO-100515															
ICS-Cp-10-SO-100715	19 U	19 U	19 U	19 U	24 U	**390**	96 U	4.8 U	**36**		96 U	**16 J**	96 U	96 U	19 U
ICS-Cp-10-SO-100715															
ICS-Du-10-SO-100515	19 U	19 U	19 U	19 U	**11 J**	**99 J**	94 U	4.7 U	19 U		94 U	19 U	94 U	94 U	19 U
ICS-Du-10-SO-100515															
ICS-Du-16-SO-100515	19 U	19 U	19 U	19 U	23 U	190 U	94 U	4.7 U	19 U		94 U	19 U	94 U	94 U	19 U
ICS-Du-16-SO-100515															
ICS-Fl-4-SO-100815	19 U	19 U	19 U	19 U	24 U	190 U	96 U	4.8 U	19 U		96 U	19 U	96 U	96 U	19 U
ICS-Fl-4-SO-100815															
ICS-Fl-7-SO-100815	19 U	19 U	19 U	19 U	24 U	190 U	95 U	4.7 U	19 U		95 U	19 U	95 U	95 U	19 U
ICS-Fl-7-SO-100815															
ICS-Fl-10-SO-100815	20 U	20 U	20 U	20 U	25 U	200 U	100 U	5.0 U	**14 J**		100 U	**16 J**	100 U	100 U	20 U
ICS-Fl-10-SO-100815															
ICS-Fl-13-SO-100815	20 U	20 U	20 U	20 U	25 U	200 U	100 U	5.0 U	20 U		100 U	20 U	100 U	100 U	20 U
ICS-Fl-13-SO-100815															
ICS-Fl-16-SO-100815	19 U	19 U	19 U	19 U	24 U	190 U	94 U	4.7 U	19 U		94 U	19 U	94 U	94 U	19 U
ICS-Fl-16-SO-100815															
ICS-Fl-21-SO-100815	20 U	20 U	20 U	20 U	25 U	200 U	98 U	4.9 U	20 U		98 U	20 U	98 U	98 U	20 U
ICS-Fl-21-SO-100815															
ICS-Ju-4-SO-100715	120 U	120 U	120 U	120 U	**830**	1200 U	**1100**	**430**	**4400**		590 U	**4900**	590 U	590 U	120 U
ICS-Ju-4-SO-100715															
ICS-Ju-10-SO-100715	20 U	20 U	20 U	20 U	24 U	**140 J**	97 U	**2.4 J**	**55**		97 U	**32**	97 U	97 U	20 U
ICS-Ju-10-SO-100715															
ICS-Ju-15-SO-100715	19 U	19 U	19 U	19 U	24 U	190 U	96 U	4.8 U	**7.7 J**		96 U	**7.7 J**	96 U	96 U	19 U
ICS-Ju-15-SO-100715															
Trip Blank															
Trip Blank															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation

ICS / [former] NW Cooperage, Seattle, WA

Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Hexachloro-benzene 118-74-1 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L
ICS-OUTF-SW-092215	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	**190**	1.0 U	0.10 U	1.0 U	*(see Cl pest.)*	0.25 U	0.10 U	1.0 U	0.10 U
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-MH1-SW-092215	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	*(see Cl pest.)*	0.25 U	0.10 U	1.0 U	0.10 U
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
Trip Blank															
ICS-UPPER-DR-101415															
ICS-LOWER-DR-101415															
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry		µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U		**17 J**	**10 J**	19 U	19 U
ICS-Ap-10-SO-100515															
ICS-Bp-10-SO-100515	20 U	20 U	20 U	**4.9 J**	97 U	97 U	20 U	20 U	20 U	4.9 U		20 U	**20**	20 U	20 U
ICS-Bp-10-SO-100515															
ICS-Cp-10-SO-100715	19 U	19 U	**17 J**	**17 J**	96 U	96 U	19 U	19 U	**33**	4.8 U		19 U	**66**	19 U	**16 J**
ICS-Cp-10-SO-100715															
ICS-Du-10-SO-100515	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U	**4.7 J**	4.7 U		19 U	**24**	19 U	19 U
ICS-Du-10-SO-100515															
ICS-Du-16-SO-100515	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U		19 U	19 U	19 U	19 U
ICS-Du-16-SO-100515															
ICS-Fl-4-SO-100815	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U	19 U	4.8 U		19 U	19 U	19 U	19 U
ICS-Fl-4-SO-100815															
ICS-Fl-7-SO-100815	19 U	19 U	19 U	19 U	95 U	95 U	19 U	19 U	19 U	4.7 U		19 U	19 U	19 U	19 U
ICS-Fl-7-SO-100815															
ICS-Fl-10-SO-100815	20 U	20 U	20 U	20 U	100 U	100 U	20 U	20 U	20 U	5.0 U		20 U	20 U	20 U	20 U
ICS-Fl-10-SO-100815															
ICS-Fl-13-SO-100815	20 U	20 U	20 U	20 U	100 U	100 U	20 U	20 U	20 U	5.0 U		20 U	20 U	20 U	20 U
ICS-Fl-13-SO-100815															
ICS-Fl-16-SO-100815	19 U	19 U	19 U	19 U	94 U	94 U	19 U	19 U	19 U	4.7 U		19 U	19 U	19 U	19 U
ICS-Fl-16-SO-100815															
ICS-Fl-21-SO-100815	20 U	20 U	20 U	20 U	98 U	98 U	20 U	20 U	20 U	4.9 U		20 U	20 U	20 U	20 U
ICS-Fl-21-SO-100815															
ICS-Ju-4-SO-100715	120 U	120 U	**510**	**580**	590 U	590 U	120 U	120 U	**1400**	29 U		**1800**	**7600**	**420**	**590 J**
ICS-Ju-4-SO-100715															
ICS-Ju-10-SO-100715	20 U	**21**	**21**	**20**	97 U	97 U	20 U	20 U	**41**	**6.8**		**43**	**82**	**16 J**	**26**
ICS-Ju-10-SO-100715															
ICS-Ju-15-SO-100715	19 U	19 U	19 U	19 U	96 U	96 U	19 U	19 U	**5.8 J**	**2.9 J**		**11 J**	**45**	19 U	**14 J**
ICS-Ju-15-SO-100715															
Trip Blank															
Trip Blank															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation

ICS / [former] NW Cooperage, Seattle, WA

Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-OUTF-SW-092215	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-MH1-SW-092215	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
Trip Blank															
ICS-UPPER-DR-101415															
ICS-LOWER-DR-101415															
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	19 U	**5.6 J**	**6.6 J**	**6.1**	19 U	47 U	**7.5 J**	19 U	38 U	19 U	19 U	19 U	**11 J**	19 U	38 U
ICS-Ap-10-SO-100515															
ICS-Bp-10-SO-100515	20 U	**13 J**	**12 J**	**6.1**	**5.8 J**	49 U	**6.8 J**	20 U	39 U	20 U	20 U	20 U	20 U	20	39 U
ICS-Bp-10-SO-100515															
ICS-Cp-10-SO-100715	19 U	**74**	**60**	**6.5**	**21**	48 U	**27**	19 U	**33 J**	19 U	**15 J**	19 U	**21**	168	251
ICS-Cp-10-SO-100715															
ICS-Du-10-SO-100515	19 U	**26**	**24**	4.7 U	19 U	47 U	**13 J**	19 U	**16 J**	19 U	19 U	19 U	19 U	28.7	79
ICS-Du-10-SO-100515															
ICS-Du-16-SO-100515	19 U	19 U	19 U	4.7 U	19 U	47 U	19 U	19 U	37 U	19 U	19 U	19 U	19 U	19 U	37 U
ICS-Du-16-SO-100515															
ICS-Fl-4-SO-100815	19 U	19 U	19 U	4.8 U	19 U	48 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U
ICS-Fl-4-SO-100815															
ICS-Fl-7-SO-100815	19 U	19 U	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U
ICS-Fl-7-SO-100815															
ICS-Fl-10-SO-100815	20 U	20 U	20 U	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	40 U
ICS-Fl-10-SO-100815															
ICS-Fl-13-SO-100815	20 U	20 U	20 U	5.0 U	20 U	50 U	20 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	40 U
ICS-Fl-13-SO-100815															
ICS-Fl-16-SO-100815	19 U	19 U	19 U	4.7 U	19 U	47 U	19 U	19 U	38 U	19 U	19 U	19 U	19 U	19 U	38 U
ICS-Fl-16-SO-100815															
ICS-Fl-21-SO-100815	20 U	20 U	20 U	4.9 U	20 U	49 U	20 U	20 U	39 U	20 U	20 U	20 U	20 U	20 U	39 U
ICS-Fl-21-SO-100815															
ICS-Ju-4-SO-100715	**2100**	**3000**	**3700**	**6900**	**1100**	**44,000**	**1100**	**2200**	**1800**	**1400**	**180**	120 U	**210**	14,500	12,490
ICS-Ju-4-SO-100715															
ICS-Ju-10-SO-100715	20 U	**130**	**140**	**11**	**43**	**59**	**49**	20 U	**71**	**30**	**21**	20 U	**30**	246	514
ICS-Ju-10-SO-100715															
ICS-Ju-15-SO-100715	19 U	**69**	**62**	**4.5 J**	**29**	**35 J**	**32**	19 U	**36 J**	**14 J**	19 U	19 U	19 U	72.5	242
ICS-Ju-15-SO-100715															
Trip Blank															
Trip Blank															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation

ICS / [former] NW Cooperage, Seattle, WA

Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-OUTF-SW-092215	0.00062 U	0.00088 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.016 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-OUTF-SW-092215																
ICS-OUTF-SW-092215																
ICS-OUTF-SW-092215																
ICS-MH1-SW-092215	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0062 U
ICS-MH1-SW-092215																
ICS-MH1-SW-092215																
ICS-MH1-SW-092215																
Trip Blank																
ICS-UPPER-DR-101415																
ICS-LOWER-DR-101415																
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U
ICS-Ap-10-SO-100515																
ICS-Bp-10-SO-100515	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.99 U	0.49 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	4.9 U
ICS-Bp-10-SO-100515																
ICS-Cp-10-SO-100715	0.48 U	0.96 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U
ICS-Cp-10-SO-100715																
ICS-Du-10-SO-100515	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.9 U
ICS-Du-10-SO-100515																
ICS-Du-16-SO-100515	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U
ICS-Du-16-SO-100515																
ICS-Fl-4-SO-100815	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U
ICS-Fl-4-SO-100815																
ICS-Fl-7-SO-100815	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.97 U	0.48 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U
ICS-Fl-7-SO-100815																
ICS-Fl-10-SO-100815	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
ICS-Fl-10-SO-100815																
ICS-Fl-13-SO-100815	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U
ICS-Fl-13-SO-100815																
ICS-Fl-16-SO-100815	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.96 U	0.48 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	4.8 U
ICS-Fl-16-SO-100815																
ICS-Fl-21-SO-100815	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.94 U	0.47 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	4.7 U
ICS-Fl-21-SO-100815																
ICS-Ju-4-SO-100715	29 U	130 U	29 U	29 U	130 U	29 U	58 U	29 U	58 U	400 U	77 U	380 U	370 U	140 U	720 U	400 U
ICS-Ju-4-SO-100715																
ICS-Ju-10-SO-100715	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	1.6 U	0.47 U	0.95 U	**3.8**	0.95 U	0.95 U	**4.4**	0.95 U	3.4 U	4.7 U
ICS-Ju-10-SO-100715																
ICS-Ju-15-SO-100715	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	5.0 U
ICS-Ju-15-SO-100715																
Trip Blank																
Trip Blank																

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Stormwater and Subsurface Soils from Push-Probe Sampling, September - October 2015

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-OUTF-SW-092215	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.020 U	0.030 U	0.010 U	0.010 U	0.010 U	0.030 U
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-OUTF-SW-092215															
ICS-MH1-SW-092215	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
ICS-MH1-SW-092215															
Trip Blank															
ICS-UPPER-DR-101415															
ICS-LOWER-DR-101415															
	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry	µg/kg, dry
ICS-Ap-10-SO-100515	0.98 U	0.98 U	0.49 U	0.49 U	24 U	0.98 U	0.98 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-Ap-10-SO-100515															
ICS-Bp-10-SO-100515	0.99 U	0.99 U	0.49 U	0.49 U	25 U	0.99 U	0.99 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-Bp-10-SO-100515															
ICS-Cp-10-SO-100715	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Cp-10-SO-100715															
ICS-Du-10-SO-100515	0.97 U	0.97 U	0.49 U	0.49 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-Du-10-SO-100515															
ICS-Du-16-SO-100515	0.95 U	0.95 U	0.48 U	0.48 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Du-16-SO-100515															
ICS-Fl-4-SO-100815	0.94 U	0.94 U	0.47 U	0.47 U	23 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Fl-4-SO-100815															
ICS-Fl-7-SO-100815	0.97 U	0.97 U	0.48 U	0.48 U	24 U	0.97 U	0.97 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
ICS-Fl-7-SO-100815															
ICS-Fl-10-SO-100815	1.0 U	1.0 U	0.50 U	0.50 U	25 U	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	**2.9 J**	4.0 U	4.0 U	4.0 U
ICS-Fl-10-SO-100815															
ICS-Fl-13-SO-100815	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Fl-13-SO-100815															
ICS-Fl-16-SO-100815	0.96 U	0.96 U	0.48 U	0.48 U	24 U	0.96 U	0.96 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Fl-16-SO-100815															
ICS-Fl-21-SO-100815	0.94 U	0.94 U	0.47 U	0.47 U	24 U	0.94 U	0.94 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ICS-Fl-21-SO-100815															
ICS-Ju-4-SO-100715	410 U	220 U	**460**	**500 J_P**	1400 U	110 U	98 U	120 U	120 U	**19,000**	**15,000**	**5800**	120 U	120 U	39,800
ICS-Ju-4-SO-100715															
ICS-Ju-10-SO-100715	2.4 U	0.95 U	0.47 U	0.47 U	24 U	0.95 U	0.95 U	3.8 U	3.8 U	**40**	**48**	**19**	3.8 U	3.8 U	107
ICS-Ju-10-SO-100715															
ICS-Ju-15-SO-100715	0.99 U	0.99 U	0.50 U	0.50 U	25 U	0.99 U	0.99 U	4.0 U	4.0 U	**6.2**	**5.8**	**1.4 J**	4.0 U	4.0 U	13.4
ICS-Ju-15-SO-100715															
Trip Blank															
Trip Blank															

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8082).
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: January 12, 2016

SUBJECT: Data Evaluation/Assessment for 33 Groundwaters Collected from Monitoring Wells during November 2015 from the ICS / [former] NW Cooperage Site, Seattle, WA

Thirty-three well water samples were collected by Dalton, Olmsted & Fuglevand (DOF) staff during November, 2015 for chemical characterization. All samples were delivered in six delivery groups to Analytical Resources Inc. (ARI) of Tukwila, Washington within 51.5 hours of collection. Samples were received on ice at temperatures between 0.4 and 4.2 °C, and maintained at the project laboratory at 4 °C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. Six trip/transport blanks were also submitted and analyzed for TPH-G and VOC's for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Table SAP-4 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. pesticides	SW846-M.8081B	SVOC's (PAH's)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. phenols	SW846-M.8041
metals (excl Hg)	SW846-M.6010C & EPA 200.8	Hg (low-level)	SW846-M.7470A
total petroleum HC's	NWTPH-Dx & -G	Cl & SO_4	EPA 300.0

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed (on the same extract) and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. PAH results were preferentially reported from the full-scan analyses or from the method yielding non-qualified results for detected analytes. Lower reporting limits for nondetected PAH's are reported from the SIM method. In all cases, with one exception, detected

PAH's exhibited good agreement between the two methods. Naphthalene in ICS-DUPL2-GW-112415 reported 1.9 µg/L via full-scan analysis and 8.7 µg/L by the SIM method; with both results as non-qualified and in order to minimize any reported bias, the mean of the two values (5.3 µg/L) is reported in the attached table of results. This value compares well with the field duplicate value for naphthalene at 4.1 µg/L in ICS-DMCMWA-GW-112415. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C). A comparison of results from the two methods shows a detection of 1,4-dichlorobenzene at 13 µg/L by M.8260C and 9.3 µg/L by M.8270D, 1,3-dichlorobenzene at 4.7 µg/L by M.8260C and 3.2 µg/L by M.8270D, and 1,2-dichlorobenzene at 7.2 µg/L by M.8260C and 5.3 µg/L by M.8270D for ICS-SAMW1-GW-112315; thus reporting results are comparable. The attached results table reports only the results for the dichloro- and trichloro-benzenes from the VOC's analyses due to lower reporting limits. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC-SIM (M.8270-SIM) and chlorinated pesticides (by M.8081B) methods, respectively. Hexachlorobenzene (HCB) results were generated and reported by both M.8270D and M.8081B, while only the results generated by M.8081B are retained here due to significantly reduced reporting limits. The lower reporting limit for chlorinated phenols (2,4,6-trichlorophenol and pentachlorophenol) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). NWTPH-Dx extract preparation was supplemented with silica gel chromatography and acid cleanup steps.

Total metals (Ca, Mg & Na) were analyzed by ICP-AES (M.6010C). Dissolved metals were determined by the application of ICP-MS (U.S. EPA 200.8) UCT^{TM} (universal cell technology) operated in the kinetic energy dissociation (KED) mode tuned for optimum selectivity of arsenic, copper, nickel and zinc. This allows increased discrimination from interferences in saline and brackish waters (samples typically require dilution to yield TDS < 1000-2000 ppm). Dissolved chromium and lead are analyzed by ICP-MS in the "standard mode".

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be acceptable or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. Some Aroclors (commercial PCB mixtures) were reported with slightly elevated reporting limits or nondetects due to elevated or busy baselines; for example, for samples ICS-HCB2R-GW-111115, ICS-Dp-GW-111815, ICS-Du-GW-111815, ICS-Hl-GW-111015, ICS-Il-GW-112015, and ICS-MW6-GW-111915. Several samples, such as ICS-SAMW1-GW-112315 and ICS-DMCMWA-GW-112415, exhibited elevated pesticide reporting limits due to interferences associated with the presence of PCB's. Other samples, such as ICS-DMCMWB-GW-112415, ICS-Eu-GW-111915, ICS-Hl-GW-111015 and ICS-Il-GW-112015, exhibited background interferences and elevated chromatographic baselines during the analyses of the chlorinated pesticides resulting in elevated

reporting limits. This also resulted in the qualification of selected results (4,4'-DDD, 4,4'-DDE and *cis*-Chlordane) with the "J_P" qualifier code due to variability in the dual column confirmation analyses (>40RPD [relative percent difference] in dual-column quantitative confirmation for pesticide analytes). Multi-parametric analyte results, such as for Aroclors (1248 and 1254), were occasionally "J_P" qualified due to deviations in relative peak contributions compared to reference mixtures. Analyte concentrations reported at less than the [specified] lower reporting limit or the established linear concentration range for all parameter groups are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of the following:

Analyte	Analysis date	Conc. (µg/L)
TPH-G	11-19-15 (AQN9)	0.03 mg/L J
	11-20-15 (AQN9)	0.04 mg/L J
Toluene (VOC's)	11-20-15 (AQN9)	0.18 J
m,p-Xylenes (VOC's)	11-20-15 (AQN9)	0.12 J
1,2,4-Trimethylbenzene (VOC's)	11-20-15 (AQN9)	0.14 J
	11-27-15 (ARD6)	0.12 J
	12-1-15 (ARF9)	0.05 J
	12-1-15 (ARH0)	0.05 J
1,3,5-Trimethylbenzene (VOC's)	12-1-15 (ARF9)	0.03 J
1,2-Dichlorobenzene (VOC's)	12-1-15 (ARF9)	0.04 J
1,2,4-Trichlorobenzene (VOC's)	12-1-15 (ARF9)	0.12 J
	12-1-15 (ARH0)	0.12 J
1,2,3-Trichlorobenzene (VOC's)	12-1-15 (ARF9)	0.22
	12-1-15 (ARH0)	0.22
n-Butylbenzene (VOC's)	12-1-15 (ARF9)	0.03 J
	12-1-15 (ARH0)	0.04 J
Diethylphthalate (SVOC's)	11-24-15 (ARD6)	0.7 J
Hexachlorobenzene (pest.)	11-30-15 (ARK8)	0.0016
Calcium (ICP-AES)	11-18-15 (AQN9)	4.8
Lead (ICP-MS)	11-19-15 (AQN9)	0.01 J
Zinc (ICP-MS)	11-30-15 (ARK8)	0.4 J
Mercury (total)	11-20-15 (AQS8)	2.8 ng/L J

Sample results that are likely affected by background contributions are qualified with the "J_B" qualifier code indicating potential positive bias. With the exception of a few samples exhibiting some low levels (detectable but less than the LOQ's [identified at 2x the MB result]) of TPH-G, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, mercury (total), and lead (dissolved), few results required qualification due to method blanks performance.

No field equipment **rinsate blank**s were generated nor submitted for determination of potential bias associated with field activities. Six **trip/transport blanks** were generated and submitted for analysis and determination of potential contamination during handling of VOC's and TPH-G samples. Results of these analyses are reported in the attached table. Trip/transport blanks reported chloromethane at 0.13 µg/L (J), *m,p*-xylenes at 0.06 µg/L (J), and TPH-G at 0.03 mg/L (J_B). No chloromethane was reported as detected in other project samples, m,p-xylenes were

reported at significantly greater levels in associated samples than that reported in the method blank, and potentially affected TPH-G values have already been qualified with the "J_B" code as likely associated with sampling/analytical background. No results required further qualification due to trip/transport blanks performance.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. LCS/LCSD runs were performed for all analytical groups, however, MS/MSD runs were performed occasionally, dependent on sample volumes. LCS and LCSD recoveries for methylene chloride were reported slightly low at 41-43% during 11-19-15 and 11-20-15, however no methylene chloride was detected in any project samples. Similarly, trichlorofluoromethane showed slightly low (LCSD only [LCS recovery was acceptable]) recovery on 12-3-15 at 42.9%, however, no trichlorofluoromethane was detected in any project samples during this monitoring event. Some SVOC analytes reported high LCS/LCSD recoveries, however no detections of associated analytes are reported in project samples. Chlorinated phenols (by M.8041) exhibited slightly low recoveries (37.2 – 50.0%) on 11-25-15 (SDG ARD6), however surrogate compound recoveries performance for all samples were within acceptable range. Endrin aldehyde recovery in an LCS run performed on 11-27-15 (SDG ARF9) showed a slightly lower-than-specified recovery, whereas the LCSD recovery was determined to be within the acceptance range. No endrin aldehyde is reported as detected in project samples for this event. Matrix spike recovery performance for PCB's in sample ICS-Fl-GW-111015 (SDG AQN9) was slightly low at 25.5-50.7%, while the associated LCS performance was determined to be acceptable. MS/MSD recovery performance in ICS-DUPL1-GW-112315 was reported as high (190% & 164%) for Aroclor 1016 and acceptable (74% & 70%) for Aroclor 1260. The elevated recoveries for Aroclor 1016 is due to overlapping response and interference from the native Aroclor 1242 in the sample. Associated surrogate compound recoveries are determined to be within specified ranges. No associated PCB results required qualification. No results required qualification due to noncompliant LCS/LCSD and MS/MSD recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols. Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, 4-bromofluorobenzene and d_4-1,2-dichlorobenzene) and TPH-G (d_5-chlorobenzene, d_8-toluene, 4-bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM (M.8270D-SIM) utilized the surrogate compounds d_{10}-2-methylnaphthalene, d_{10}-fluoranthene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate. All surrogate recoveries were within specification, with the following exceptions: d_5-nitrobenzene at 25.4% (specified range = 27-120%), 2-fluorobiphenyl at 29.7% (specified range = 33-120%), d_5-phenol at 30.4% (specified range = 38-120%), 2-fluorophenol at 32.8% (specified range = 33-120%), and d_4-2-chlorophenol at 34.4% (specified range = 41-120%) in ICS-MW8-GW-112015 by M.8270D; d_{10}-fluoranthene at 44% (specified range = 46-121%) in ICS-MW3-GW-112015

by M.8270-SIM; d_5-phenol at 36.8% (specified range = 38-120%) and d_4-2-chlorophenol at 39.5% (specified range = 41-120%) in ICS-HCB1-GW-111915 by M.8270D; DCBP at 24.6% (specified range = 30-160%) in ICS-MW4-GW-111115 by M.8081B; DCBP at 29% (specified range = 30-160%) in ICS-MW3-GW-112015 by M.8081B; DCBP at 28% (specified range = 29-120%) and TCMX at 31.8% (specified range = 32-120%) in ICS-MW2-GW-111115 by M.8082; DCBP at 27.2% (specified range = 29-120%) and TCMX at 30.0% (specified range = 32-120%) in ICS-MW4-GW-111115 by M.8082; and TCMX at 31.0% (specified range = 32-120%) in ICS-Fl-GW-111015 by M.8082. All deviations are marginally outside the specified ranges and associated with analytes reported as nondetected. No qualification of results was performed due to surrogate compounds performance.

Initial calibration verification (ICV) checks revealed occasional [minor] noncompliant responses (ICV RPD compared to initial calibration responses > 20) for methylene chloride, acetone, acrolein, 2-butanone, naphthalene, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene by M.8260C; benzyl alcohol, N-nitrosodi-n-propylamine, benzoic acid, isophorone, and carbazole by M.8270D; and benzo(g,h,i)perylene by M.8270-SIM. Potentially affected sample results are required to be qualified with the "J_Q" code (detections are determined to be estimates based on calibration deviations). No results required qualification due to non-compliant ICV performances.

Low mass spectral matches are observed for a few analytes reported by M.8260C in two samples. These analytes (*cis*-1,2-dichloroethene, chlorobenzene, 2-chlorotoluene and n-butylbenzene) are confirmed to be present (by the analyst) and "J_M" qualified as estimated concentrations in ICS-MW7-GW-112315 and ICS-SAMW1-GW-112315.

TPH-Dx and TPH-G analyses indicate presence of principally <u>weathered</u> gasoline in samples from ICS-SAMW1-GW-112315, ICS-DMCMWA-GW-112415, ICS-DUPL2-GW-112415 and ICS-DMCMWB-GW-112415; mineral spirits in ICS-Eu-GW-111915 and ICS-SAMW1-GW-112315; and <u>weathered</u> diesel fuel and motor oil lube in ICS-DMCMWA-GW-112415, ICS-DUPL2-GW-112415 and ICS-DMCMWB-GW-112415. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present; as summarized above.

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data for ground water samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloride mg/L	Sulfate mg/L	Arsenic 7440-38-2 diss. µg/L	Calcium 7440-70-2 total µg/L	Chromium 7440-47-3 diss. µg/L	Copper 7440-50-8 diss. µg/L	Lead 7439-92-1 diss. µg/L	Magnesium 7439-95-4 total µg/L	Mercury 7439-97-6 diss. ng/L	Mercury 7439-97-6 total ng/L
ICS-MW1-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521709-AQN9A	**3670**	**434**		**135,000**				**284,000**		
ICS-MW1-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521761-AQS8A										**77**
ICS-MW1-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521720-AQN9L			**4**		**5**	**1.1 J**	**1**			
ICS-MW1-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521771-AQS8K									**9.5 J**	
ICS-MW2-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521710-AQN9B	**198**	**0.5**		**14,100**				**20,300**		
ICS-MW2-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521762-AQS8B										**15 J**
ICS-MW2-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521721-AQN9M			**3.9**		**66.9**	**14.7**	**1.0**			
ICS-MW2-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521772-AQS8L									**14 J**	
ICS-MW4-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521711-AQN9C	**118**	**0.4**		**13,900**				**20,400**		
ICS-MW4-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521763-AQS8C										**14 J**
ICS-MW4-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521722-AQN9N			**2.9**		**48.8**	**14.7**	**1.0**			
ICS-MW4-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521773-AQS8M									**12 J**	
ICS-HCB2R-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521718-AQN9J				**63,700**				**7910**		
ICS-HCB2R-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521764-AQS8D										**3.1 J_B**
ICS-HCB2R-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521729-AQN9U			**2.7**		**0.5 J**	**0.4 J**	**0.03 J**			
ICS-HCB2R-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521774-AQS8N									20.0 U	
ICS-Fu-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521712-AQN9D	**78.4**	**59.7**		**136,000**				**24,100**		
ICS-Fu-GW-111115	GW-mon. well	11/11/15	nonfiltered	1521765-AQS8E										20.0 U
ICS-Fu-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521723-AQN9O			**0.7**		**0.25 J**	**2.2**	**0.01 J_B**			
ICS-Fu-GW-111115	GW-mon. well	11/11/15	field-filtered, 0.45 µm	1521775-AQS8O									**5.0 J**	
ICS-Fl-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521713-AQN9E	**1490**	**21.6**		**54,700**				**103,000**		
ICS-Fl-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521766-AQS8F										**6.4 J**
ICS-Fl-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521724-AQN9P			**1.0**		**19**	**0.8**	**0.09 J**			
ICS-Fl-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521776-AQS8P									**2.7 J**	
ICS-Gu-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521714-AQN9F	**192**	**15.6**		**61,900**				**98,400**		
ICS-Gu-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521767-AQS8G										**5.9 J**
ICS-Gu-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521725-AQN9Q			**0.8**		**1.2**	**0.17 J**	**0.07 J**			
ICS-Gu-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521777-AQS8Q									20.0 U	
ICS-Gl-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521715-AQN9G	**3690**	**273**		**107,000**				**231,000**		
ICS-Gl-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521768-AQS8H										**2.7 J_B**
ICS-Gl-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521726-AQN9R			**0.6**		**1.4**	**0.18 J**	**0.03 J**			
ICS-Gl-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521778-AQS8R									20.0 U	
ICS-Ku-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521716-AQN9H	**17.4**	**11.1**		**33,200**				**9330**		
ICS-Ku-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521769-AQS8I										20.0 U
ICS-Ku-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521727-AQN9S			**0.4**		**0.42 J**	**3.0**	**0.02 J_B**			
ICS-Ku-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521779-AQS8S									20.0 U	
ICS-Kl-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521717-AQN9I	**1180**	**85.2**		**43,600**				**112,000**		
ICS-Kl-GW-111015	GW-mon. well	11/10/15	nonfiltered	1521770-AQS8J										**5.8 J**
ICS-Kl-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521728-AQN9T			**0.3**		**3**	**0.7**	**0.6**			
ICS-Kl-GW-111015	GW-mon. well	11/10/15	field-filtered, 0.45 µm	1521780-AQS8T									**3.6 J**	
Trip Blank	water	11/12/15	trip/transport blank	1521719-AQN9K										
ICS-Ap-GW-111815	GW-mon. well	11/18/15	nonfiltered	1522417-ARD6A										
ICS-Bp-GW-111815	GW-mon. well	11/18/15	nonfiltered	1522418-ARD6B										
ICS-Cp-GW-111815	GW-mon. well	11/18/15	nonfiltered	1522419-ARD6C										
ICS-Dp-GW-111815	GW-mon. well	11/18/15	nonfiltered	1522420-ARD6D										
ICS-Du-GW-111815	GW-mon. well	11/18/15	nonfiltered	1522421-ARD6E	**116**	**4.7**		**15,500**				**13,000**		
ICS-Du-GW-111815	GW-mon. well	11/18/15	nonfiltered	1522431-ARD8A										**6.6 J**
ICS-Du-GW-111815	GW-mon. well	11/18/15	field-filtered, 0.45 µm	1522424-ARD6H			**1.4**		**8.3**	**3.1**	**0.7**			
ICS-Du-GW-111815	GW-mon. well	11/18/15	field-filtered, 0.45 µm	1522433-ARD8C									**5.9 J**	

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloride	Sulfate	Arsenic 7440-38-2	Calcium 7440-70-2	Chromium 7440-47-3	Copper 7440-50-8	Lead 7439-92-1	Magnesium 7439-95-4	Mercury 7439-97-6	
					mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	diss. µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L
ICS-Hl-GW-111015	GW-mon. well	11/18/15	nonfiltered	1522422-ARD6F	**2310**	**230**		**72,900**				**130,000**		
ICS-Hl-GW-111015	GW-mon. well	11/18/15	nonfiltered	1522432-ARD8B										**6.7 J**
ICS-Hl-GW-111015	GW-mon. well	11/18/15	field-filtered, 0.45 µm	1522425-ARD6I			**0.25 J**		**2**	**0.35 J**	**1.0**			
ICS-Hl-GW-111015	GW-mon. well	11/18/15	field-filtered, 0.45 µm	1522434-ARD8D									**7.0 J**	
Trip Blank	water	11/19/15	trip/transport blank	1522423-ARD6G										
ICS-MW3-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522558-ARF9A	**270**	**0.4**		**23,600**				**56,300**		
ICS-MW3-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522583-ARG3A										**14 J**
ICS-MW3-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522565-ARF9H			**5.3**		**62**	**9**	**0.7**			
ICS-MW3-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522589-ARG3G									**13 J**	
ICS-MW5-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522559-ARF9B	**207**	**0.3**		**10,800**				**17,800**		
ICS-MW5-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522584-ARG3B										**3.6 J**
ICS-MW5-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522566-ARF9I			**0.5**		**8.9**	**2.7**	**0.2**			
ICS-MW5-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522590-ARG3H									20.0 U	
ICS-MW8-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522560-ARF9C	**39.7**	**0.5**		**28,300**				**30,300**		
ICS-MW8-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522585-ARG3C										**15 J**
ICS-MW8-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522567-ARF9J			**8.8**		**1.7**	**0.26 J**	**0.2**			
ICS-MW8-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522591-ARG3I									20.0 U	
ICS-Ju-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522561-ARF9D	**666**	**80.5**		**45,000**				**42,100**		
ICS-Ju-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522586-ARG3D										**13 J**
ICS-Ju-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522568-ARF9K			**2.0**		**2.5**	**1.2**	**2.4**			
ICS-Ju-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522592-ARG3J									**15 J**	
ICS-Il-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522562-ARF9E	**2950**	**31.2**		**139,000**				**220,000**		
ICS-Il-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522587-ARG3E										**5.1 J**
ICS-Il-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522569-ARF9L			**0.4 J**		**3**	**0.4 J**	**0.1 J**			
ICS-Il-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522575-ARG3K									20.0 U	
ICS-SAMW2-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522563-ARF9F	**3110**	**132**		**117,000**				**189,000**		
ICS-SAMW2-GW-112015	GW-mon. well	11/20/15	nonfiltered	1522588-ARG3F										**4.1 J**
ICS-SAMW2-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522570-ARF9M			**1**		**3**	**0.4 J**	**0.1 J**			
ICS-SAMW2-GW-112015	GW-mon. well	11/20/15	field-filtered, 0.45 µm	1522576-ARG3L									20.0 U	
Trip Blank	water	11/20/15	trip/transport blank	1522564-ARF9G										
ICS-HCB1-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522618-ARH0A	**3770**	**4.8**		**134,000**				**230,000**		
ICS-HCB1-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522685-ARH1A										20.0 U
ICS-HCB1-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522623-ARH0F			**0.45 J**		**2.8**	**0.3 J**	**0.06 J**			
ICS-HCB1-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522689-ARH1E									20.0 U	
ICS-MW6-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522619-ARH0B	**270**	**5.5**		**21,500**				**23,600**		
ICS-MW6-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522686-ARH1B										**3.8 J**
ICS-MW6-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522624-ARH0G			**0.6**		**7.6**	**1.9**	**0.1**			
ICS-MW6-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522690-ARH1F									**3.3 J**	
ICS-Eu-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522620-ARH0C	**4850**	**564**		**241,000**				**370,000**		
ICS-Eu-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522687-ARH1C										**48.7**
ICS-Eu-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522625-ARH0H			**2**		**1.6**	**0.5 J**	**1.0**			
ICS-Eu-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522691-ARH1G									**4.4 J**	
ICS-SAMW3-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522621-ARH0D	**2220**	**334**		**46,700**				**103,000**		
ICS-SAMW3-GW-111915	GW-mon. well	11/19/15	nonfiltered	1522688-ARH1D										**7.3 J**
ICS-SAMW3-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522684-ARH0I			**0.3**		**0.7**	**4.3**	**0.01 J**			
ICS-SAMW3-GW-111915	GW-mon. well	11/19/15	field-filtered, 0.45 µm	1522692-ARH1H									**6.8 J**	
Trip Blank	water	11/19/15	trip/transport blank	1522622-ARH0E										

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Chloride	Sulfate	Arsenic 7440-38-2	Calcium 7440-70-2	Chromium 7440-47-3	Copper 7440-50-8	Lead 7439-92-1	Magnesium 7439-95-4	Mercury 7439-97-6	
					mg/L	mg/L	diss. µg/L	total µg/L	diss. µg/L	diss. µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L
ICS-MW7-GW-112315	GW-mon. well	11/23/15	nonfiltered	1522885-ARK8A	**378**	**0.1**		**15,900**				**4070**		
ICS-MW7-GW-112315	GW-mon. well	11/23/15	nonfiltered	1522892-ARK9A										**4.5 J**
ICS-MW7-GW-112315	GW-mon. well	11/23/15	field-filtered, 0.45 µm	1522889-ARK8E			**1.0**		**6.1**	**0.25 J**	**0.1**			
ICS-MW7-GW-112315	GW-mon. well	11/23/15	field-filtered, 0.45 µm	1522895-ARK9D									20.0 U	
ICS-SAMW1-GW-112315	GW-mon. well	11/23/15	nonfiltered	1522886-ARK8B	**554**	**19.3**		**37,400**				**31,700**		
ICS-SAMW1-GW-112315	GW-mon. well	11/23/15	nonfiltered	1522893-ARK9B										**51.5**
ICS-SAMW1-GW-112315	GW-mon. well	11/23/15	field-filtered, 0.45 µm	1522890-ARK8F			**3.6**		**13.5**	**1.8**	**1.0**			
ICS-SAMW1-GW-112315	GW-mon. well	11/23/15	field-filtered, 0.45 µm	1522896-ARK9E									**16.6 J**	
ICS-DUPL1-GW-112315	GW-MW7 dup.	11/23/15	nonfiltered	1522887-ARK8C	**381**	**1.5**		**16,100**				**4130**		
ICS-DUPL1-GW-112315	GW-MW7 dup.	11/23/15	nonfiltered	1522894-ARK9C										**4.0 J**
ICS-DUPL1-GW-112315	GW-MW7 dup.	11/23/15	field-filtered, 0.45 µm	1522891-ARK8G			**1.0**		**6.4**	**0.26 J**	**0.04 J**			
ICS-DUPL1-GW-112315	GW-MW7 dup.	11/23/15	field-filtered, 0.45 µm	1522897-ARK9F									20.0 U	
Trip Blank	water	11/23/15	trip/transport blank	1522888-ARK8D										
ICS-DMCMWA-GW-112415	GW-mon. well	11/24/15	nonfiltered	1522999-ARN0A	**635**	**8.3**		**40,200**				**63,900**		
ICS-DMCMWA-GW-112415	GW-mon. well	11/24/15	nonfiltered	1523008-ARN1A										**187**
ICS-DMCMWA-GW-112415	GW-mon. well	11/24/15	field-filtered, 0.45 µm	1523004-ARN0F			**3.0**		**4.4**	**2.6**	**19.2**			
ICS-DMCMWA-GW-112415	GW-mon. well	11/24/15	field-filtered, 0.45 µm	1523012-ARN1E									**16.5 J**	
ICS-DMCMWB-GW-112415	GW-mon. well	11/24/15	nonfiltered	1523000-ARN0B	**2250**	**14.5**		**132,000**				**154,000**		
ICS-DMCMWB-GW-112415	GW-mon. well	11/24/15	nonfiltered	1523009-ARN1B										**32.7**
ICS-DMCMWB-GW-112415	GW-mon. well	11/24/15	field-filtered, 0.45 µm	1523005-ARN0G			**7.3**		**8**	**2**	**14.4**			
ICS-DMCMWB-GW-112415	GW-mon. well	11/24/15	field-filtered, 0.45 µm	1523013-ARN1F									**15.3 J**	
ICS-DMCMWC-GW-112415	GW-mon. well	11/24/15	nonfiltered	1523001-ARN0C	**3900**	**413**		**250,000**				**333,000**		
ICS-DMCMWC-GW-112415	GW-mon. well	11/24/15	nonfiltered	1523010-ARN1C										**13.6 J**
ICS-DMCMWC-GW-112415	GW-mon. well	11/24/15	field-filtered, 0.45 µm	1523006-ARN0H			**2**		**1.8 J**	**2.4 J**	**2.0**			
ICS-DMCMWC-GW-112415	GW-mon. well	11/24/15	field-filtered, 0.45 µm	1523014-ARN1G									**16.4 J**	
ICS-DUPL2-GW-112415	DMCMWA dup.	11/24/15	nonfiltered	1523002-ARN0D	**625**	**7.8**		**41,100**				**65,000**		
ICS-DUPL2-GW-112415	DMCMWA dup.	11/24/15	nonfiltered	1523011-ARN1D										**212**
ICS-DUPL2-GW-112415	DMCMWA dup.	11/24/15	field-filtered, 0.45 µm	1523007-ARN0I			**3.2**		**6.0**	**4.1**	**30.5**			
ICS-DUPL2-GW-112415	DMCMWA dup.	11/24/15	field-filtered, 0.45 µm	1523015-ARN1H									**20.0**	
Trip Blank	water	11/24/15	trip/transport blank	1523003-ARN0E										

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Nickel 7440-02-0 diss. µg/L	Sodium 7440-23-5 total µg/L	Zinc 7440-66-6 diss. µg/L	Hardness mg-$CaCO_3$/L	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L
ICS-MW1-GW-111115		**2,030,000**		1500	0.04 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-MW1-GW-111115														
ICS-MW1-GW-111115	**2**		**4.5 J**											
ICS-MW1-GW-111115														
ICS-MW2-GW-111115		**484,000**		120	0.04 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-MW2-GW-111115														
ICS-MW2-GW-111115	**1.5**		**3.8 J**											
ICS-MW2-GW-111115														
ICS-MW4-GW-111115		**369,000**		120	0.03 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-MW4-GW-111115														
ICS-MW4-GW-111115	**1.3**		**3.3 J**											
ICS-MW4-GW-111115														
ICS-HCB2R-GW-111115		**6900**		190	0.03 J_B			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115	**2.3**		**9**											
ICS-HCB2R-GW-111115														
ICS-Fu-GW-111115		**55,200**		440	0.03 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Fu-GW-111115														
ICS-Fu-GW-111115	**3.0**		**1.4 J**											
ICS-Fu-GW-111115														
ICS-Fl-GW-111015		**1,060,000**		560	0.03 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.15 J**	1.0 U	5.0 U	0.20 U
ICS-Fl-GW-111015														
ICS-Fl-GW-111015	**1.0**		**0.96 J**											
ICS-Fl-GW-111015														
ICS-Gu-GW-111015		**61,300**		560	0.03 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.27**
ICS-Gu-GW-111015														
ICS-Gu-GW-111015	**0.7**		**1.9 J**											
ICS-Gu-GW-111015														
ICS-Gl-GW-111015		**1,910,000**		1200	0.03 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Gl-GW-111015														
ICS-Gl-GW-111015	**0.52 J**		**3.1 J**											
ICS-Gl-GW-111015														
ICS-Ku-GW-111015		**25,300**		120	0.03 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Ku-GW-111015														
ICS-Ku-GW-111015	**3.6**		**2.7 J**											
ICS-Ku-GW-111015														
ICS-Kl-GW-111015		**1,060,000**		570	0.03 J_B	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Kl-GW-111015														
ICS-Kl-GW-111015	**0.6**		**1.8 J**											
ICS-Kl-GW-111015														
Trip Blank					0.03 J_B			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Ap-GW-111815								0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Bp-GW-111815								0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**8.8**	0.20 U
ICS-Cp-GW-111815								0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Dp-GW-111815								0.50 U	1.0 U	**0.61**	0.20 U	1.0 U	**2.8 J**	0.20 U
ICS-Du-GW-111815		**156,000**		92	0.04 J	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**2.4 J**	0.20 U
ICS-Du-GW-111815														
ICS-Du-GW-111815	**1.7**		**5**											
ICS-Du-GW-111815														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Nickel 7440-02-0 diss. µg/L	Sodium 7440-23-5 total µg/L	Zinc 7440-66-6 diss. µg/L	Hardness mg-$CaCO_3$/L	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L
ICS-Hl-GW-111015		**1,200,000**		720	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Hl-GW-111015														
ICS-Hl-GW-111015	**0.28 J**		**2.6 J**											
ICS-Hl-GW-111015														
Trip Blank								0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-MW3-GW-112015		**425,000**		290	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.21**	0.20 U	1.0 U	**3.7 J**	0.20 U
ICS-MW3-GW-112015														
ICS-MW3-GW-112015	**2**		**3.3 J**											
ICS-MW3-GW-112015														
ICS-MW5-GW-112015		**235,000**		100	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-MW5-GW-112015														
ICS-MW5-GW-112015	**0.47 J**		**1.1 J**											
ICS-MW5-GW-112015														
ICS-MW8-GW-112015		**121,000**		200	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.86**	**3.9**	1.0 U	**3.2 J**	0.20 U
ICS-MW8-GW-112015														
ICS-MW8-GW-112015	**4.5**		**0.6 J**											
ICS-MW8-GW-112015														
ICS-Ju-GW-112015		**460,000**		290	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.06 J**	0.20 U	1.0 U	5.0 U	0.20 U
ICS-Ju-GW-112015														
ICS-Ju-GW-112015	**4.6**		**2.6 J**											
ICS-Ju-GW-112015														
ICS-Il-GW-112015		**1,720,000**		1300	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.05 J**
ICS-Il-GW-112015														
ICS-Il-GW-112015	**0.5 J**		**1.6 J**											
ICS-Il-GW-112015														
ICS-SAMW2-GW-112015		**1,600,000**		1100	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.10 J**
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015	**3**		**1.6 J**											
ICS-SAMW2-GW-112015														
Trip Blank					0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-HCB1-GW-111915		**2,080,000**		1300	0.03 J	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915	**0.3 J**		**1.1 J**											
ICS-HCB1-GW-111915														
ICS-MW6-GW-111915		**241,000**		150	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.12 J**	**0.22**	1.0 U	5.0 U	0.20 U
ICS-MW6-GW-111915														
ICS-MW6-GW-111915	**0.8**		**48**											
ICS-MW6-GW-111915														
ICS-Eu-GW-111915		**2,730,000**		2100	0.06 J	**0.67**	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**3.0 J**	0.20 U
ICS-Eu-GW-111915						*(mineral spirits)*								
ICS-Eu-GW-111915	**3**		**3.4 J**											
ICS-Eu-GW-111915														
ICS-SAMW3-GW-111915		**1,540,000**		540	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915	**2.0**		**7**											
ICS-SAMW3-GW-111915														
Trip Blank					0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Nickel 7440-02-0 diss. µg/L	Sodium 7440-23-5 total µg/L	Zinc 7440-66-6 diss. µg/L	Hardness mg-$CaCO_3$/L	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L
ICS-MW7-GW-112315		**369,000**		57	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.43**	**3.4**	1.0 U	5.0 U	0.20 U
ICS-MW7-GW-112315														
ICS-MW7-GW-112315	**1.4**		**0.96 J**											
ICS-MW7-GW-112315														
ICS-SAMW1-GW-112315		**751,000**		220	**1.4**	**0.47**	0.30	0.50 U	1.0 U	**2.5**	**0.96**	1.0 U	**12**	**0.13 J**
ICS-SAMW1-GW-112315						*(mineral spirits)*								
ICS-SAMW1-GW-112315	**10.0**		**2.3 J**											
ICS-SAMW1-GW-112315														
ICS-DUPL1-GW-112315		**376,000**		57	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.38**	**3.4**	1.0 U	5.0 U	0.20 U
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315	**1.5**		**1.3 J**											
ICS-DUPL1-GW-112315														
Trip Blank					0.25 U			**0.13 J**	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-DMCMWA-GW-112415		**475,000**		360	**0.35**	**0.75**	**1.2**	0.50 U	1.0 U	**0.13 J**	0.20 U	1.0 U	5.0 U	0.20 U
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415	**1.4**		**12**											
ICS-DMCMWA-GW-112415														
ICS-DMCMWB-GW-112415		**1,170,000**		960	**0.38**	**0.46**	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415	**1.0**		**10**											
ICS-DMCMWB-GW-112415														
ICS-DMCMWC-GW-112415		**2,120,000**		2000	0.25 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415	**1.5 J**		**5.2 J**											
ICS-DMCMWC-GW-112415														
ICS-DUPL2-GW-112415		**469,000**		370	**0.36**	**0.59**	**0.94**	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415	**2.0**		**18**											
ICS-DUPL2-GW-112415														
Trip Blank					0.25 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U

** *bold-typed values resemble corresponding petroleum hydrocarbon mixture*

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans* -1,2-Dichloroethene 156-60-5 µg/L	*cis* -1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L
ICS-MW1-GW-111115	0.20 U	0.20 U	0.20 U	**0.05 J**	**0.03 J**	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW2-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW4-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-HCB2R-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-Fu-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fl-GW-111015	0.20 U	**0.08 J**	0.20 U	**0.23**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Gu-GW-111015	0.20 U	0.20 U	0.20 U	**0.38**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gl-GW-111015	0.20 U	**0.10 J**	0.20 U	**0.64**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Ku-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Kl-GW-111015	0.20 U	0.20 U	**0.14 J**	**1.7**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ap-GW-111815	0.20 U	0.20 U	0.20 U	**0.16 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Bp-GW-111815	0.20 U	**0.12 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Cp-GW-111815	0.20 U	**0.31**	0.20 U	**0.14 J**	0.20 U	**0.24**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Dp-GW-111815	0.20 U	**0.30**	**0.25**	**0.39**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Du-GW-111815	0.20 U	0.20 U	**0.16 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Du-GW-111815													
ICS-Du-GW-111815													
ICS-Du-GW-111815													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans* -1,2-Dichloroethene 156-60-5 µg/L	*cis* -1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L
ICS-Hl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW3-GW-112015	0.20 U	0.20 U	0.20 U	**0.07 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW5-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW8-GW-112015	0.20 U	**0.14 J**	**0.43**	**0.45**	0.20 U	**0.11 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-Ju-GW-112015	0.20 U	**0.07 J**	0.20 U	**0.32**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.15 J**
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Il-GW-112015	0.20 U	**0.12 J**	0.20 U	**0.26**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-SAMW2-GW-112015	0.20 U	**0.07 J**	0.20 U	**0.11 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.08 J**
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-GW-111915	0.20 U	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-MW6-GW-111915	0.20 U	**0.64**	0.20 U	**0.18 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-Eu-GW-111915	0.20 U	**0.21**	0.20 U	**0.19 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-SAMW3-GW-111915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans* -1,2-Dichloroethene 156-60-5 µg/L	*cis* -1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L
ICS-MW7-GW-112315	0.20 U	**0.39**	**0.55**	**0.22 J_M**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-SAMW1-GW-112315	0.20 U	**5.9**	**4.4**	**1.5**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	**0.51**	0.20 U	0.20 U
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-DUPL1-GW-112315	0.20 U	**0.35**	**0.51**	**0.25**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWA-GW-112415	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWB-GW-112415	0.20 U	0.20 U	0.20 U	**0.15 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWC-GW-112415	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DUPL2-GW-112415	0.20 U	0.20 U	0.20 U	**0.10 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_M = estimate; noncompliant mass spectral match - analyte presence confirmed by analyst.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L
ICS-MW1-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW2-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW4-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-HCB2R-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.08 J**	0.20 U	**0.06 J**	0.20 U	**0.04 J**	0.20 U	0.20 U
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-Fu-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fu-GW-111115														
ICS-Fu-GW-111115														
ICS-Fu-GW-111115														
ICS-Fl-GW-111015	0.20 U	0.20 U	**0.03 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fl-GW-111015														
ICS-Fl-GW-111015														
ICS-Fl-GW-111015														
ICS-Gu-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Gu-GW-111015														
ICS-Gu-GW-111015														
ICS-Gu-GW-111015														
ICS-Gl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	**0.27**	0.20 U	0.20 U	0.20 U
ICS-Gl-GW-111015														
ICS-Gl-GW-111015														
ICS-Gl-GW-111015														
ICS-Ku-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ku-GW-111015														
ICS-Ku-GW-111015														
ICS-Ku-GW-111015														
ICS-Kl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Kl-GW-111015														
ICS-Kl-GW-111015														
ICS-Kl-GW-111015														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ap-GW-111815	0.20 U	0.20 U	**0.61**	0.20 U	0.20 U	5.0 U	5.0 U	**0.24**	0.20 U	**0.60**	**0.76**	0.20 U	0.20 U	0.20 U
ICS-Bp-GW-111815	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.49**	0.20 U	**0.18 J**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Cp-GW-111815	0.20 U	0.20 U	**0.98**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.75**	0.20 U	**0.40**	0.20 U	0.20 U
ICS-Dp-GW-111815	0.20 U	0.20 U	**0.29**	0.20 U	0.20 U	5.0 U	5.0 U	**0.69**	0.20 U	**0.59**	**1.1**	0.20 U	0.20 U	0.20 U
ICS-Du-GW-111815	0.20 U	0.20 U	**0.21**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.14 J**	**2.5**	0.20 U	0.20 U	0.20 U
ICS-Du-GW-111815														
ICS-Du-GW-111815														
ICS-Du-GW-111815														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L
ICS-Hl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Hl-GW-111015														
ICS-Hl-GW-111015														
ICS-Hl-GW-111015														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW3-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.07 J**	0.20 U	**0.05 J**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW5-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW8-GW-112015	0.20 U	0.20 U	**70**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.89**	**1.1**	**0.20**	0.20 U	0.20 U
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-Ju-GW-112015	0.20 U	0.20 U	**0.13 J**	0.20 U	0.20 U	5.0 U	5.0 U	**0.12 J**	0.20 U	**0.05 J**	0.20 U	**0.16 J**	0.20 U	0.20 U
ICS-Ju-GW-112015														
ICS-Ju-GW-112015														
ICS-Ju-GW-112015														
ICS-Il-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Il-GW-112015														
ICS-Il-GW-112015														
ICS-Il-GW-112015														
ICS-SAMW2-GW-112015	0.20 U	0.20 U	**0.64**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.83**	0.20 U	**4.8**	**0.12 J**	0.20 U
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-GW-111915	0.20 U	0.20 U	**0.05 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-MW6-GW-111915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	**0.75**	0.20 U	0.20 U	0.20 U
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-Eu-GW-111915	0.20 U	0.20 U	**2.4**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.32**	0.20 U	**0.43**	0.20 U	0.20 U
ICS-Eu-GW-111915														
ICS-Eu-GW-111915														
ICS-Eu-GW-111915														
ICS-SAMW3-GW-111915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L
ICS-MW7-GW-112315	0.20 U	0.20 U	**2.4**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.2**	0.20 U	**0.53**	0.20 U	0.20 U
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-SAMW1-GW-112315	0.20 U	0.20 U	**6.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**54**	**2.3 J_M**	**240**	**2.6**	0.20 U
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-DUPL1-GW-112315	0.20 U	0.20 U	**2.3**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.2**	0.20 U	**0.77**	0.20 U	0.20 U
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWA-GW-112415	0.20 U	0.20 U	**31**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.26**	0.20 U	**0.99**	0.20 U	0.20 U
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DMCMWB-GW-112415	0.20 U	0.20 U	**0.27**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.28**	0.20 U	**2.0**	0.20 U	0.20 U
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-DMCMWC-GW-112415	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-DUPL2-GW-112415	0.20 U	0.20 U	**32**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.27**	0.20 U	**0.96**	0.20 U	0.20 U
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_M = estimate; noncompliant mass spectral match - analyte presence confirmed by analyst.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans* -1,4-Dichloro-2-butene 110-57-6 µg/L
ICS-MW1-GW-111115	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW2-GW-111115	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW4-GW-111115	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	**0.21**	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-HCB2R-GW-111115	0.20 U	**0.12 J**	**0.05 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-Fu-GW-111115	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fl-GW-111015	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Gu-GW-111015	0.20 U	**0.06 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gl-GW-111015	0.20 U	**0.07 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Ku-GW-111015	0.20 U	**0.07 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Kl-GW-111015	0.20 U	**0.09 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
Trip Blank	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Ap-GW-111815	0.20 U	**0.81**	**0.67**	**0.11 J**	**0.22**	**0.69**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Bp-GW-111815	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Cp-GW-111815	0.20 U	**0.64**	**0.41**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Dp-GW-111815	0.20 U	**0.12 J**	0.20 U	**0.13 J**	**0.25**	**0.83**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Du-GW-111815	0.20 U	**0.20 J**	**0.14 J**	**0.17 J**	**0.65**	**2.6**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Du-GW-111815													
ICS-Du-GW-111815													
ICS-Du-GW-111815													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans* -1,4-Dichloro-2-butene 110-57-6 µg/L
ICS-Hl-GW-111015	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
Trip Blank	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW3-GW-112015	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW5-GW-112015	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW8-GW-112015	0.20 U	**2.8**	**0.70**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-Ju-GW-112015	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Il-GW-112015	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-SAMW2-GW-112015	0.20 U	**3.4**	**4.3**	**0.45**	0.20 U	**0.05 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
Trip Blank	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-HCB1-GW-111915	0.20 U	0.40 U	0.20 U	**0.05 J**	0.20 U	**0.04 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-MW6-GW-111915	0.20 U	0.40 U	0.20 U	0.20 U	**0.12 J**	**0.37**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-Eu-GW-111915	0.20 U	**0.41**	**0.24**	**0.26**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-SAMW3-GW-111915	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
Trip Blank	0.20 U	**0.06 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans* -1,4-Dichloro-2-butene 110-57-6 µg/L
ICS-MW7-GW-112315	0.20 U	**4.6**	**0.90**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-SAMW1-GW-112315	0.20 U	**110**	**44**	**7.2**	**4.7**	**13**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-DUPL1-GW-112315	0.20 U	**4.7**	**0.93**	**0.18 J**	**0.05 J**	**0.11 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
Trip Blank	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-DMCMWA-GW-112415	0.20 U	**0.84**	**0.83**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWB-GW-112415	0.20 U	**2.7**	**0.12 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWC-GW-112415	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DUPL2-GW-112415	0.20 U	**0.86**	**0.82**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
Trip Blank	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	1.0 U

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L
ICS-MW1-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW2-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.03 J**	**0.08 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.03 J**	0.20 U
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW4-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-HCB2R-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-Fu-GW-111115	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fu-GW-111115														
ICS-Fu-GW-111115														
ICS-Fu-GW-111115														
ICS-Fl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fl-GW-111015														
ICS-Fl-GW-111015														
ICS-Fl-GW-111015														
ICS-Gu-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Gu-GW-111015														
ICS-Gu-GW-111015														
ICS-Gu-GW-111015														
ICS-Gl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Gl-GW-111015														
ICS-Gl-GW-111015														
ICS-Gl-GW-111015														
ICS-Ku-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ku-GW-111015														
ICS-Ku-GW-111015														
ICS-Ku-GW-111015														
ICS-Kl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Kl-GW-111015														
ICS-Kl-GW-111015														
ICS-Kl-GW-111015														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ap-GW-111815	**0.19 J_B**	**0.18 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Bp-GW-111815	0.20 U	**0.14 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Cp-GW-111815	0.20 U	**0.26 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Dp-GW-111815	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Du-GW-111815	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Du-GW-111815														
ICS-Du-GW-111815														
ICS-Du-GW-111815														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L
ICS-Hl-GW-111015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Hl-GW-111015														
ICS-Hl-GW-111015														
ICS-Hl-GW-111015														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW3-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW5-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW8-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.56**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.04 J**
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-Ju-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.05 J**
ICS-Ju-GW-112015														
ICS-Ju-GW-112015														
ICS-Ju-GW-112015														
ICS-Il-GW-112015	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Il-GW-112015														
ICS-Il-GW-112015														
ICS-Il-GW-112015														
ICS-SAMW2-GW-112015	**0.69**	**3.5**	0.20 U	0.20 U	0.20 U	0.20 U	**0.20**	**0.20**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.18 J**
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-GW-111915	0.20 U	**0.03 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.04 J**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-MW6-GW-111915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-Eu-GW-111915	0.20 U	**0.14 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.29**	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.11 J**	**0.20**
ICS-Eu-GW-111915														
ICS-Eu-GW-111915														
ICS-Eu-GW-111915														
ICS-SAMW3-GW-111915	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L
ICS-MW7-GW-112315	**0.52**	**0.73**	0.20 U	0.20 U	0.20 U	0.20 U	**0.48**	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	**0.13 J**
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-SAMW1-GW-112315	**7.5**	**48**	0.20 U	0.20 U	0.20 U	0.20 U	**4.3**	**7.4**	0.20 U	**0.86 J_M**	0.20 U	**0.12 J**	**1.4**	**1.9**
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-DUPL1-GW-112315	**0.57**	**0.96**	0.20 U	0.20 U	0.20 U	0.20 U	**0.47**	**0.14 J**	0.20 U	0.20 U	0.20 U	**0.03 J**	**0.07 J**	**0.14 J**
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWA-GW-112415	0.20 U	**0.82**	0.20 U	0.20 U	0.20 U	0.20 U	**2.3**	**0.96**	0.20 U	0.20 U	0.20 U	0.20 U	**0.63**	**0.60**
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DMCMWB-GW-112415	**4.0**	**7.6**	0.20 U	0.20 U	0.20 U	0.20 U	**3.2**	**1.8**	0.20 U	0.20 U	0.20 U	**0.06 J**	**0.69**	**1.1**
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-DMCMWC-GW-112415	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-DUPL2-GW-112415	**0.06 J**	**0.84**	0.20 U	0.20 U	0.20 U	0.20 U	**2.3**	**0.96**	0.20 U	0.20 U	0.20 U	**0.09 J**	**0.65**	**0.66**
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
J_M = estimate; noncompliant mass spectral match - analyte presence confirmed by analyst.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L
ICS-MW1-GW-111115	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW2-GW-111115	**0.03 J**	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW4-GW-111115	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-HCB2R-GW-111115	0.20 U	0.50 U	0.50 U										
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-Fu-GW-111115	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fl-GW-111015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Gu-GW-111015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gl-GW-111015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Ku-GW-111015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Kl-GW-111015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
Trip Blank	0.20 U	0.50 U	0.50 U										
ICS-Ap-GW-111815	0.20 U	0.50 U	0.50 U										
ICS-Bp-GW-111815	0.20 U	0.50 U	0.50 U										
ICS-Cp-GW-111815	0.20 U	0.50 U	0.50 U										
ICS-Dp-GW-111815	0.20 U	0.50 U	0.50 U										
ICS-Du-GW-111815	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Du-GW-111815													
ICS-Du-GW-111815													
ICS-Du-GW-111815													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L
ICS-Hl-GW-111015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
Trip Blank	0.20 U	0.50 U	0.50 U										
ICS-MW3-GW-112015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW5-GW-112015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW8-GW-112015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-Ju-GW-112015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Il-GW-112015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-SAMW2-GW-112015	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
Trip Blank	0.20 U	0.50 U	0.50 U										
ICS-HCB1-GW-111915	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-MW6-GW-111915	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-Eu-GW-111915	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	**0.8 J**	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-SAMW3-GW-111915	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
Trip Blank	0.20 U	0.50 U	0.50 U										

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L
ICS-MW7-GW-112315	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-SAMW1-GW-112315	**1.1 J_M**	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	**1.8 J**
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-DUPL1-GW-112315	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
Trip Blank	0.20 U	0.50 U	0.50 U										
ICS-DMCMWA-GW-112415	**0.59**	0.50 U	0.50 U	**1.6**	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWB-GW-112415	**0.63**	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWC-GW-112415	0.20 U	0.50 U	0.50 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DUPL2-GW-112415	**0.60**	0.50 U	0.50 U	**1.1**	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	3.0 U
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
Trip Blank	0.20 U	0.50 U	0.50 U										

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L
ICS-MW1-GW-111115	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW2-GW-111115	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW4-GW-111115	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-Fu-GW-111115	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fl-GW-111015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Gu-GW-111015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gl-GW-111015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Ku-GW-111015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Kl-GW-111015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
Trip Blank													
ICS-Ap-GW-111815						0.25 U							
ICS-Bp-GW-111815						0.25 U							
ICS-Cp-GW-111815						0.25 U							
ICS-Dp-GW-111815						0.25 U							
ICS-Du-GW-111815	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**2.3**	0.10 U	3.0 U
ICS-Du-GW-111815													
ICS-Du-GW-111815													
ICS-Du-GW-111815													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L
ICS-Hl-GW-111015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
Trip Blank													
ICS-MW3-GW-112015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW5-GW-112015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW8-GW-112015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-Ju-GW-112015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Il-GW-112015	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-SAMW2-GW-112015	20 U	3.0 U	**0.61**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**0.11**	**0.06 J**	3.0 U
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
Trip Blank													
ICS-HCB1-GW-111915	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-MW6-GW-111915	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-Eu-GW-111915	20 U	3.0 U	**1.6**	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**0.07 J**	0.10 U	3.0 U
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-SAMW3-GW-111915	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
Trip Blank													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L
ICS-MW7-GW-112315	20 U	3.0 U	**2.8**	3.0 U	**3.7**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**0.17**	0.10 U	3.0 U
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-SAMW1-GW-112315	20 U	**1.4 J**	**23**	3.0 U	**80**	**0.43**	5.0 U	1.0 U	1.0 U	**0.09 J**	**1.0**	**0.42**	3.0 U
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-DUPL1-GW-112315	20 U	3.0 U	**2.4**	3.0 U	**3.2**	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	**0.19**	0.10 U	3.0 U
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
Trip Blank													
ICS-DMCMWA-GW-112415	20 U	3.0 U	**4.1**	3.0 U	**5.1**	0.25 U	5.0 U	1.0 U	1.0 U	**0.23**	**4.0**	**0.49**	3.0 U
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWB-GW-112415	20 U	3.0 U	**4.1**	3.0 U	**7.8**	0.25 U	5.0 U	1.0 U	1.0 U	**0.05 J**	**3.0**	**0.16**	3.0 U
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWC-GW-112415	20 U	3.0 U	0.10 U	3.0 U	1.0 U	0.25 U	5.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	3.0 U
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DUPL2-GW-112415	20 U	3.0 U	**5.3**	3.0 U	**3.1**	0.25 U	5.0 U	1.0 U	1.0 U	**0.16**	**3.2**	**0.60**	3.0 U
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
Trip Blank													

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L
ICS-MW1-GW-111115	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW2-GW-111115	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW4-GW-111115	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-Fu-GW-111115	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Fu-GW-111115														
ICS-Fu-GW-111115														
ICS-Fu-GW-111115														
ICS-Fl-GW-111015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Fl-GW-111015														
ICS-Fl-GW-111015														
ICS-Fl-GW-111015														
ICS-Gu-GW-111015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Gu-GW-111015														
ICS-Gu-GW-111015														
ICS-Gu-GW-111015														
ICS-Gl-GW-111015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Gl-GW-111015														
ICS-Gl-GW-111015														
ICS-Gl-GW-111015														
ICS-Ku-GW-111015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Ku-GW-111015														
ICS-Ku-GW-111015														
ICS-Ku-GW-111015														
ICS-Kl-GW-111015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Kl-GW-111015														
ICS-Kl-GW-111015														
ICS-Kl-GW-111015														
Trip Blank														
ICS-Ap-GW-111815						0.25 U								
ICS-Bp-GW-111815						0.25 U								
ICS-Cp-GW-111815						**0.18 J**								
ICS-Dp-GW-111815						0.25 U								
ICS-Du-GW-111815	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Du-GW-111815														
ICS-Du-GW-111815														
ICS-Du-GW-111815														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L
ICS-Hl-GW-111015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Hl-GW-111015														
ICS-Hl-GW-111015														
ICS-Hl-GW-111015														
Trip Blank														
ICS-MW3-GW-112015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW5-GW-112015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW8-GW-112015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-Ju-GW-112015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Ju-GW-112015														
ICS-Ju-GW-112015														
ICS-Ju-GW-112015														
ICS-Il-GW-112015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-Il-GW-112015														
ICS-Il-GW-112015														
ICS-Il-GW-112015														
ICS-SAMW2-GW-112015	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	**0.16 J**	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
Trip Blank														
ICS-HCB1-GW-111915	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-MW6-GW-111915	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-Eu-GW-111915	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	**0.09 J**	1.0 U	0.10 U	1.0 U	**0.05 J**	0.10 U	1.0 U	0.10 U
ICS-Eu-GW-111915														
ICS-Eu-GW-111915														
ICS-Eu-GW-111915														
ICS-SAMW3-GW-111915	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
Trip Blank														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L
ICS-MW7-GW-112315	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-SAMW1-GW-112315	3.0 U	1.0 U	1.0 U	**1.0**	**1.9**	0.25 U	**1.4**	1.0 U	**0.10 J**	1.0 U	**0.11**	**0.09 J**	1.0 U	0.10 U
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-DUPL1-GW-112315	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
Trip Blank														
ICS-DMCMWA-GW-112415	3.0 U	1.0 U	1.0 U	**1.1**	**1.2**	0.25 U	**1.1**	**1.0**	**0.59**	1.0 U	**0.33**	**0.38**	1.0 U	**0.08 J**
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DMCMWB-GW-112415	3.0 U	1.0 U	1.0 U	**1.0**	1.0 U	0.25 U	**0.30**	**1.0**	0.10 U	1.0 U	**0.08 J**	0.10 U	1.0 U	0.10 U
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-DMCMWC-GW-112415	3.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.25 U	0.10 U	1.0 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-DUPL2-GW-112415	3.0 U	1.0 U	1.0 U	**1.6**	1.0 U	0.25 U	**2.2**	**0.8 J**	**0.72**	1.0 U	**0.36**	**0.56**	1.0 U	**0.10**
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
Trip Blank														

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L
ICS-MW1-GW-111115	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.0016 U	0.00062 U
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW2-GW-111115	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW4-GW-111115	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-Fu-GW-111115	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fl-GW-111015	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Gu-GW-111015	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.0016 U	0.00062 U
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gl-GW-111015	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Ku-GW-111015	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Kl-GW-111015	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
Trip Blank													
ICS-Ap-GW-111815													
ICS-Bp-GW-111815													
ICS-Cp-GW-111815													
ICS-Dp-GW-111815													
ICS-Du-GW-111815	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3	0.10 U	0.0013 U	0.00079 U	0.00062 U
ICS-Du-GW-111815													
ICS-Du-GW-111815													
ICS-Du-GW-111815													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L
ICS-Hl-GW-111015	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
Trip Blank													
ICS-MW3-GW-112015	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW5-GW-112015	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW8-GW-112015	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-Ju-GW-112015	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Il-GW-112015	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.00062 U	0.00062 U	0.00062 U
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-SAMW2-GW-112015	3.0 U	0.10 U	1.0 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.72	0.20 U	0.0014 U	0.0034 U	0.00062 U
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
Trip Blank													
ICS-HCB1-GW-111915	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-MW6-GW-111915	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.0017 U	0.00062 U
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-Eu-GW-111915	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.76	0.10 U	0.00073 U	0.0045 U	0.00062 U
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-SAMW3-GW-111915	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.00062 U	0.00062 U	0.00062 U
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
Trip Blank													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L
ICS-MW7-GW-112315	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.97	0.10 U	0.0016 U	0.00062 U	0.00062 U
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-SAMW1-GW-112315	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	26.6	0.20	0.0013 U	0.011 U	0.0085 U
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-DUPL1-GW-112315	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.59	0.10 U	0.0017 U	0.00062 U	0.00062 U
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
Trip Blank													
ICS-DMCMWA-GW-112415	**4.0**	**0.10 J**	1.0 U	**0.04 J**	**0.07 J**	0.10 U	0.10 U	0.10 U	11.1	1.0	0.0038 U	0.0036 U	0.0031 U
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWB-GW-112415	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	8.45	0.10 U	0.0019 U	0.0023 U	0.00062 U
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWC-GW-112415	3.0 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.0022 U	0.0012 U	0.0012 U
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DUPL2-GW-112415	3.0 U	**0.16**	1.0 U	**0.12**	**0.07 J**	0.10 U	0.10 U	0.10 U	16.6	1.37	0.0080 U	0.0031 U	0.0031 U
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
Trip Blank													

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U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L
ICS-MW1-GW-111115	0.00062 U	0.00062 U	0.00086 U	0.0017 U	0.00062 U	0.0018 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0022 U	0.0062 U	0.0012 U	0.0012 U
ICS-MW1-GW-111115															
ICS-MW1-GW-111115															
ICS-MW1-GW-111115															
ICS-MW2-GW-111115	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-MW2-GW-111115															
ICS-MW2-GW-111115															
ICS-MW2-GW-111115															
ICS-MW4-GW-111115	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-MW4-GW-111115															
ICS-MW4-GW-111115															
ICS-MW4-GW-111115															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-111115															
ICS-Fu-GW-111115	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-Fu-GW-111115															
ICS-Fu-GW-111115															
ICS-Fu-GW-111115															
ICS-Fl-GW-111015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-Fl-GW-111015															
ICS-Fl-GW-111015															
ICS-Fl-GW-111015															
ICS-Gu-GW-111015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-Gu-GW-111015															
ICS-Gu-GW-111015															
ICS-Gu-GW-111015															
ICS-Gl-GW-111015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-Gl-GW-111015															
ICS-Gl-GW-111015															
ICS-Gl-GW-111015															
ICS-Ku-GW-111015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-Ku-GW-111015															
ICS-Ku-GW-111015															
ICS-Ku-GW-111015															
ICS-Kl-GW-111015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-Kl-GW-111015															
ICS-Kl-GW-111015															
ICS-Kl-GW-111015															
Trip Blank															
ICS-Ap-GW-111815															
ICS-Bp-GW-111815															
ICS-Cp-GW-111815															
ICS-Dp-GW-111815															
ICS-Du-GW-111815	0.00062 U	0.00062 U	0.00062 U	0.00066 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0062 U	0.0012 U	0.0012 U
ICS-Du-GW-111815															
ICS-Du-GW-111815															
ICS-Du-GW-111815															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L
ICS-Hl-GW-111015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0015 U	0.0062 U	0.0012 U	0.0012 U
ICS-Hl-GW-111015															
ICS-Hl-GW-111015															
ICS-Hl-GW-111015															
Trip Blank															
ICS-MW3-GW-112015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-MW3-GW-112015															
ICS-MW3-GW-112015															
ICS-MW3-GW-112015															
ICS-MW5-GW-112015	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-MW5-GW-112015															
ICS-MW5-GW-112015															
ICS-MW5-GW-112015															
ICS-MW8-GW-112015	0.0011 U	0.00062 U	0.00082 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-MW8-GW-112015															
ICS-MW8-GW-112015															
ICS-MW8-GW-112015															
ICS-Ju-GW-112015	0.00062 U	0.00062 U	0.00074 U	0.0017 U	0.00062 U	0.0020 U	0.0020 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0062 U	0.0015 U	0.0012 U
ICS-Ju-GW-112015															
ICS-Ju-GW-112015															
ICS-Ju-GW-112015															
ICS-Il-GW-112015	0.00062 U	0.00062 U	0.00062 U	0.00079 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-Il-GW-112015															
ICS-Il-GW-112015															
ICS-Il-GW-112015															
ICS-SAMW2-GW-112015	0.0017 U	0.0012 U	0.0012 U	0.0033 U	0.00062 U	0.0012 U	0.0014 U	0.0012 U	0.0018 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0018 U	0.0012 U
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-112015															
Trip Blank															
ICS-HCB1-GW-111915	0.00071 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-HCB1-GW-111915															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-111915															
ICS-MW6-GW-111915	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0062 U	0.0012 U	0.0012 U
ICS-MW6-GW-111915															
ICS-MW6-GW-111915															
ICS-MW6-GW-111915															
ICS-Eu-GW-111915	0.00082 U	0.0015 U	0.00062 U	0.0040 U	0.00070 U	0.0012 U	**0.013 J_P**	0.0026 U	0.0012 U	0.0012 U	0.0012 U	0.022 U	0.0062 U	0.0012 U	0.0012 U
ICS-Eu-GW-111915															
ICS-Eu-GW-111915															
ICS-Eu-GW-111915															
ICS-SAMW3-GW-111915	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-111915															
Trip Blank															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L
ICS-MW7-GW-112315	0.0070 U	0.00062 U	0.00076 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0035 U	0.0012 U	0.0014 U	0.0044 U	0.0062 U	0.0042 U	0.0012 U
ICS-MW7-GW-112315															
ICS-MW7-GW-112315															
ICS-MW7-GW-112315															
ICS-SAMW1-GW-112315	0.017 U	0.00062 U	0.0050 U	0.013 U	0.00062 U	0.0012 U	0.011 U	0.0036 U	0.034 U	0.0021 U	0.013 U	0.024 U	0.16 U	0.0089 U	0.0064 U
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-112315															
ICS-DUPL1-GW-112315	0.0070 U	0.00062 U	0.00088 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0040 U	0.0062 U	0.0012 U	0.0012 U
ICS-DUPL1-GW-112315															
ICS-DUPL1-GW-112315															
ICS-DUPL1-GW-112315															
Trip Blank															
ICS-DMCMWA-GW-112415	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0062 U	**0.039**	0.0062 U	0.0076 U	**0.14**	0.0062 U	0.0076 U	0.031 U	0.0062 U	0.0062 U
ICS-DMCMWA-GW-112415															
ICS-DMCMWA-GW-112415															
ICS-DMCMWA-GW-112415															
ICS-DMCMWB-GW-112415	0.00062 U	0.00064 U	0.00062 U	0.00062 U	0.00062 U	0.0016 U	**0.0031**	0.0012 U	0.0012 U	**0.0077 J_P**	0.0012 U	0.0017 U	0.0062 U	0.0012 U	0.0012 U
ICS-DMCMWB-GW-112415															
ICS-DMCMWB-GW-112415															
ICS-DMCMWB-GW-112415															
ICS-DMCMWC-GW-112415	0.0012 U	0.0012 U	0.0012 U	0.0015 U	0.0012 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.012 U	0.0025 U	0.0025 U
ICS-DMCMWC-GW-112415															
ICS-DMCMWC-GW-112415															
ICS-DMCMWC-GW-112415															
ICS-DUPL2-GW-112415	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0062 U	**0.034**	0.0062 U	0.0062 U	**0.14**	0.0062 U	0.0072 U	0.031 U	0.0062 U	0.0062 U
ICS-DUPL2-GW-112415															
ICS-DUPL2-GW-112415															
ICS-DUPL2-GW-112415															
Trip Blank															

J_P = estimated value due to high variability exhibited between dual column responses or multi-parametric deviations on GC/ECD.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-MW1-GW-111115	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	**0.084**	**0.18**	**0.23**	0.010 U	0.010 U	0.494
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW2-GW-111115	0.00072 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW4-GW-111115	0.00064 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-HCB2R-GW-111115						0.010 U	0.010 U	0.015 U	0.015 U	0.010 U	0.010 U	0.010 U	0.015 U
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-Fu-GW-111115	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fu-GW-111115													
ICS-Fl-GW-111015	0.00068 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Fl-GW-111015													
ICS-Gu-GW-111015	0.00094 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gu-GW-111015													
ICS-Gl-GW-111015	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Gl-GW-111015													
ICS-Ku-GW-111015	0.00083 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Ku-GW-111015													
ICS-Kl-GW-111015	0.00080 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
ICS-Kl-GW-111015													
Trip Blank													
ICS-Ap-GW-111815						0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Bp-GW-111815						0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Cp-GW-111815						0.010 U	0.010 U	**0.054 J_P**	**0.018 J_P**	0.010 U	0.010 U	0.010 U	0.072
ICS-Dp-GW-111815						0.010 U	0.010 U	0.010 U	0.025 U	0.010 U	0.010 U	0.010 U	0.025 U
ICS-Du-GW-111815	**0.0023**	**0.0018**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.030 U	**0.007 J**	0.010 U	0.010 U	0.030 U
ICS-Du-GW-111815													
ICS-Du-GW-111815													
ICS-Du-GW-111815													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-Hl-GW-111015	**0.0058**	**0.0086 J_P**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.020 U	0.030 U	**0.020**	0.010 U	0.010 U	0.030 U
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
ICS-Hl-GW-111015													
Trip Blank													
ICS-MW3-GW-112015	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW5-GW-112015	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW8-GW-112015	0.00062 U	0.00062 U	0.063 U	0.0014 U	0.0012 U	0.010 U	0.010 U	**0.013**	**0.013**	**0.003 J**	0.010 U	0.010 U	0.029
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-Ju-GW-112015	0.0016 U	0.0018 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	**0.12**	**0.11**	**0.059**	0.010 U	0.010 U	0.289
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Ju-GW-112015													
ICS-Il-GW-112015	**0.0044**	**0.0058 J_P**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.015 U	**0.006 J**	0.010 U	0.010 U	0.015 U
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-Il-GW-112015													
ICS-SAMW2-GW-112015	0.00062 U	0.00062 U	0.063 U	0.0029 U	0.0012 U	0.010 U	0.010 U	**0.054**	**0.042**	**0.011**	0.010 U	0.010 U	0.107
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
Trip Blank													
ICS-HCB1-GW-111915	0.0010 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.057**	**0.046**	0.010 U	0.010 U	0.010 U	0.010 U	0.103
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-MW6-GW-111915	**0.0046**	**0.0046**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.030 U	0.025 U	**0.008 J**	0.010 U	0.010 U	0.030 U
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-Eu-GW-111915	0.00074 U	0.00062 U	0.063 U	0.0016 U	0.0024 U	0.010 U	**0.20**	0.010 U	0.050 U	**0.036**	0.010 U	0.010 U	0.236
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-Eu-GW-111915													
ICS-SAMW3-GW-111915	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
Trip Blank													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
(Monitoring Well) Groundwater Analyses, November 2015

Field I.D.	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-MW7-GW-112315	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.043**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.043
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-SAMW1-GW-112315	0.00062 U	0.0034 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**4.4**	0.010 U	**1.8**	**0.71**	0.010 U	0.010 U	6.91
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-DUPL1-GW-112315	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.049**	0.010 U	**0.019**	0.010 U	0.010 U	0.010 U	0.068
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
Trip Blank													
ICS-DMCMWA-GW-112415	0.0031 U	0.0031 U	0.32 U	0.0062 U	0.0062 U	0.010 U	0.010 U	**0.18**	**0.29**	**0.14**	0.010 U	0.010 U	0.61
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DMCMWB-GW-112415	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	**0.020**	**0.020**	**0.009 J**	0.010 U	0.010 U	0.049
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-DMCMWC-GW-112415	0.0012 U	0.019 U	0.13 U	0.0025 U	0.0025 U	0.010 U	0.010 U	**0.012**	**0.019 J_P**	0.010 U	0.010 U	0.010 U	0.031
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-DUPL2-GW-112415	0.0031 U	0.0031 U	0.32 U	0.0062 U	0.0062 U	0.010 U	0.010 U	**0.16**	**0.26**	**0.13**	0.010 U	0.010 U	0.55
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
Trip Blank													

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to high variability exhibited between dual column responses or multi-parametric deviations on GC/ECD.
U = nondetected at the associated lower reporting limit.

D.M.D., Inc.
Environmental & Toxicological Services
13706 SW Caster Road, Vashon, WA 98070-7428 (206) 463-6223 fax: (206) 463-4013

MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: June 30, 2016

SUBJECT: Data Evaluation/Assessment for 62 Groundwaters Collected from Monitoring Wells during November 2015 and March 2016 from the ICS / [former] NW Cooperage Site, Seattle, WA *(revision of 5/23/2016 report)*

Sixty-two well water samples were collected by Dalton, Olmsted & Fuglevand (DOF) staff during November, 2015 and March, 2016 for chemical characterization. All samples were delivered in ten sample delivery groups (SDG's) to Analytical Resources Inc. (ARI) of Tukwila, Washington within 50 hours of collection. Samples were received on ice at temperatures between 0.7 and 5.9 °C, and maintained at the project laboratory at 4 °C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. Six trip/transport blanks were submitted and analyzed for TPH-G and VOC's, and two field equipment rinsate blanks were generated and analyzed for quality control purposes. One analytical delivery group (AXI6/AXI7), analyzed for total (nonfiltered) and dissolved (0.45 µm filtration) metals, consisted of samples (held in laboratory archival storage) collected during November, 2015. The holding time of 4 months did not exceed the U.S. EPA maximum recommended holding time of 6 months. Three analytical groups (AZE1, AZE2 and AZH9) taken from laboratory archival storage were analyzed for total (nonfiltered) metals after a 29-day holding time (maximum recommended holding time is 6 months).

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012) and *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Table SAP-4 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. pesticides	SW846-M.8081B	SVOC's (PAH's)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082	chlor. phenols	SW846-M.8041
metals (excl Hg)	SW846-M.6010C & EPA 200.8	Hg (low-level)	SW846-M.7470A
total petroleum HC's	NWTPH-Dx & -G		

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed and reported from analyses performed in the (M.8270D) SIM mode to improve/lower the reporting limits. SVOC lower reporting limits were enhanced/improved over previous monitoring events by increasing extraction volumes to one liter utilizing separatory funnel technique. PAH results were preferentially reported from the full-scan analyses (full-scan GC/MS is considered a more reliable method and exhibits minimal bias) or from the method yielding non-qualified results for detected analytes. Lower reporting limits for nondetected PAH's are reported from the SIM method. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C). A comparison of results from the two methods shows comparable responses with some slight positive bias from the VOC's method. This is likely due to greater analyte recoveries by the VOC's method and losses during solvent concentration via the SVOC's method. The attached results table reports only the results for the dichloro- and trichloro-benzenes from the SVOC's analyses due to greater analyte and surrogate compound recoveries. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC-SIM (M.8270-SIM) and chlorinated pesticides (by M.8081B) methods, respectively. Hexachlorobenzene (HCB) results were generated and reported by both M.8270D and M.8081B, while only the results generated by M.8081B are retained here due to significantly reduced reporting limits. The lower reporting limit for pentachlorophenol (PCP) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD option). PCP reporting limits were also improved from previous monitoring events due to increased sample extraction volumes. NWTPH-Dx extract preparation was supplemented with silica gel chromatography and acid cleanup steps.

Major cations (Ca, Mg & Na) were analyzed by ICP-AES (M.6010C). Other metals were determined by the application of ICP-MS (U.S. EPA 200.8) UCT^{TM} (universal cell technology) operated in the kinetic energy dissociation (KED) mode tuned for optimum selectivity of arsenic, cadmium, copper, nickel and zinc. This allows increased discrimination from interferences in saline and brackish waters (samples typically require dilution to yield TDS < 1000-2000 ppm). Chromium, lead and silver are analyzed by ICP-MS in the "standard mode".

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. The maximum recommended holding time of 7 days for PCB's in water was exceeded by 4 days (total of 11 days) for samples ICS-MW7-GW-032516, ICS-DUP1-GW-032516 and ICS-Ap(MW25)-GW-032516. This deviation is a result of extract losses in the laboratory during processing. Due to the relatively short duration of the exceedance and the refractoriness of PCB's, this deviation from specification is considered minor and is not expected to adversely affect sample results and associated data quality. Sample holding times/conditions are determined to be acceptable or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP. In most cases, the lower of the project GW PQL and the LDW PQL were achieved. Several samples, such as ICS-MWA-GW-033016, ICS-MW1-GW-032216, ICS-SAMW1-GW-032416 and ICS-SAMW2-GW-032916, exhibited elevated pesticide reporting limits due to interferences associated with the presence of PCB's. Selected results (4,4'-DDD and pentachlorophenol) were qualified with the "J_P" qualifier code due to variability in the dual column confirmation analyses in samples ICS-Eu(MW28)-GW-032416, ICS-MWA-GW-033016 (and its blind duplicate, ICS-DUP2-GW-033016), and ICS-HCB2R-GW-032316 (>40RPD [relative percent difference] in dual-column quantitative confirmation). Multi-parametric analyte results, such as for Aroclor 1254 in sample ICS-SAMW2-GW-032916 was "J_P" qualified due to deviations in relative peak contributions compared to the standard reference mixture. Analyte concentrations reported at less than the [specified] lower reporting limit (LOQ) or the established linear concentration range for all parameter groups are qualified as estimated with the "J" qualifier code. Metals results at less than the LOQ are reported in the attached results table with one significant digit or at nominal units.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). All method blanks reported nondetects, with the exception of the following:

Analyte	Analysis date	Conc. (µg/L)
Methylene chloride (VOC's)	3-30-16 (AXZ6, AYB4)	0.65 J
	3-31-16 (AYE9)	0.70 J
	3-31-16 (AYE9)	0.68 J
	4-4-16 (AYI7)	1.2
Carbon disulfide (VOC's)	3-30-16 (AXZ6, AYB4)	0.08 J
	4-8-16 (AYK6)	0.05 J
	4-12-16 (AYM1)	0.04 J
Toluene (VOC's)	3-31-16 (AYE9)	0.05 J
	4-4-16 (AYI7)	0.10 J
	4-12-16 (AYM1)	0.05 J
m,p-Xylenes (VOC's)	3-30-16 (AXZ6, AYB4)	0.06 J
	4-4-16 (AYI7)	0.06 J
	4-12-16 (AYM1)	0.06 J
1,4-Dichlorobenzene (VOC's)	3-30-16 (AXZ6, AYB4)	0.04 J
1,2,4-Trimethylbenzene (VOC's)	3-30-16 (AXZ6, AYB4)	0.04 J
	3-31-16 (AYE9)	0.04 J
	4-4-16 (AYI7)	0.04 J
4-Isopropyltoluene (VOC's)	3-30-16 (AXZ6, AYB4)	0.03 J
n-Butylbenzene (VOC's)	3-30-16 (AXZ6, AYB4)	0.08 J
Diethylphthalate (SVOC's)	4-1-16 (AYG8, AYI7)	0.1 J
bis(2-Ethylhexyl)phthalate (SVOC's)	3-30-16 (AYE9)	0.2 J
Calcium (ICP-AES)	3-31-16 (AXZ6, AYE9)	2.7 J
	3-31-16 (AYB4)	1.9 J
	4-2-16 (AYK6, AYM1)	4.6 J
	4-2-16 (AYG8)	2.7 J
	4-2-16 (AYI7)	4.7 J
Sodium (ICP-AES)	3-31-16 (AXZ6, AYE9)	5.8 J
	3-31-16 (AYB4)	110 J
	4-2-16 (AYK6, AYM1)	16 J
	4-2-16 (AYG8)	36 J

	4-2-16 (AYI7)	8.6 J
Cadmium	4-4-16 (AYK6, AYM1)	0.01 J
Chromium	3-31-16 (AYB4)	0.1 J
	4-4-16 (AYG8)	0.27 J
	4-4-16 (AYI7)	0.22 J
	4-21-16 (AZE1)	0.09 J
	4-21-16 (AZE2)	0.1 J
	4-22-16 (AZH9)	0.18 J
Copper (ICP-MS)	3-31-16 (AXZ6, AYE9)	0.04 J
	4-4-16 (AYG8)	0.06 J
	4-4-16 (AYI7)	0.06 J
	4-21-16 (AZE1)	0.04 J
	4-21-16 (AZE2)	0.12 J
	4-22-16 (AZH9)	0.28 J
Lead (ICP-MS)	3-31-16 (AYB4)	0.02 J
	4-4-16 (AYG8)	0.02 J
	4-4-16 (AYI7)	0.01 J
	4-21-16 (AZE2)	0.01 J
	4-22-16 (AZH9)	0.02 J
Mercury (CVAAS)	4-4-16 (AYI7)	3 ng/L J
Nickel (ICP-MS)	4-4-16 (AYG8)	0.02 J
	4-21-16 (AZE1)	0.02 J
	4-21-16 (AZE2)	0.02 J
	4-28-16 (AZH9)	0.06 J
Zinc (ICP-MS)	3-31-16 (AXZ6, AYE9)	2.5 J
	4-4-16 (AYK6, AYM1)	0.33 J

Sample results that are likely affected by laboratory background contributions are qualified with the "J_B" qualifier code indicating potential positive bias. Positive results (detections) reported at 2x method blank levels in associated data delivery groups, which required qualification with the "J_B" code are found in the attached results table for methylene chloride, toluene, *m,p*-xylenes, 1,2,4-trimethylbenzene, *bis*(2-ethylhexyl)phthalate, cadmium, chromium, copper, lead, mercury, nickel and zinc.

Two field equipment **rinsate blank**s were generated and submitted for determination of potential bias associated with field activities. Six **trip/transport blanks** were also generated and submitted for analysis and determination of potential contamination during handling of VOC's and TPH-G samples. Results of these analyses are reported in the attached table. Trip/transport blanks reported detects, generally less than the LOQ, for 16 VOC analytes. Trip/transport blanks results are treated similarly to method blanks – data qualification and limitations are associated with samples within each delivery group. Chloromethane is the only additional analyte requiring data qualification with the "J_B" qualifier code due to potential positive bias from laboratory and/or field background and handling. Chloromethane was not reported in laboratory method blanks, but was found in half of the trip/transport blanks at less than the LOQ of 0.50 µg/L (0.15 J, 0.20 J and 0.24 µg/L J). With the exception of chloromethane, no additional results required further qualification due to trip/transport blanks performance. Field equipment rinsate blanks exhibited low level metals (generally less than the LOQ), chloromethane, other VOC analytes typically found in method blanks, and *bis*(2-ethylhexyl)phthalate (at 1.6 µg/L). No additional data qualification of project sample results was made based on field equipment rinsate blanks performance.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. LCS/LCSD runs were performed for all analytical groups, however, MS/MSD runs were occasionally not performed. **LCS** and **LCSD** recoveries for methylene chloride were reported slightly high at 126 and 132% during 3-30-16, between 134 and 139% on 3-31-16 and 4-1-16, and 138 and 148% on 4-4-16, however no methylene chloride was detected in any site samples. 1,1-Dichloroethene reported slightly higher than specified recoveries at 119 and 126% for LCS/LCSD on 4-4-16 for SDG AYI7. This analyte was detected only once in site samples; in ICS-SAMW1-GW-032416 associated with SDG AYE9. Benzoic acid reported a slightly low LCS recovery on 3-29-16 at 28% (lower limit specification = 30%), which is comparable to the d_5-phenol surrogate compound of 24%; thus, showing good correlation with the appropriate surrogate compound. A slightly lower than specification recovery of 27% was also reported on 4-4-16 (for SDG AYK6 and AYM1). SIM PAH analytes reported high LCS recoveries, up to 250%, on 3-28-16 for sample delivery group AXZ6 and AYB4. The associated MS/MSD performance for PAH's in sample ICS-Kl-GW-032216 is well within specification, and a second and associated LCS (4-2-16) for the group reported acceptable recovery performance for all PAH analytes. Hexachlorobutadiene (HCBD) recovery reported by M.8081B in LCS 4-2-16 associated with SDG AYM1 was slightly low at 28% (lower limit specification = 30%). No HCBD has been reported as detected in any site groundwater or soil samples. No sample results require qualification due to LCS/LCSD recovery performance.

Matrix spike recovery performance was generally within specification for almost all analytes. Phenolic and acidic analytes showed generally lower recoveries than the neutral organic compounds and occasionally less than the specified lower advisory limit. MS/MSD recovery for benzoic acid was 28 and 30% in ICS-Ku(M34)-GW-032216 and 30% in ICS-Du(MW22)-GW-032816. ICS-Ku(M34)-GW-032216 also showed an MS/MSD phenol recovery of 28 and 28%, and a d_5-phenol (surrogate compound) recovery of 24 and 22%, indicating that the surrogate compound, benzoic acid and phenol recoveries generally correlated well, as expected. The LCS (4-1-16) associated with ICS-Du(MW22)-GW-032816 (SDG AYI7) showed an acceptable benzoic acid recovery of 41%. MS/MSD recovery performance for endrin aldehyde in ICS-Hl(MW24)-GW-032916 (SDG AYK6) was reported slightly low at 15 and 25% while the associated LCS (4-2-16) was acceptable at 34%. MS recoveries for endrin aldehyde and HCBD were slightly low at 28% and 25%, respectively, for ICS-MW3-GW-032416 while the associated MSD recoveries (all in the range of 32-75%) were within specified limits (30-160%). MS/MSD diesel fuel recoveries in sample ICS-MW4-GW-032916 (SDG AYK6) are reported at 56 and 72%, while the associated LCS/LCSD (4-4-16) recoveries are acceptable at 77% (for both). PCB's and major cation MS/MSD recovery measurements exhibited nonevaluable results due to high native levels in ICS-Eu(MW28)-GW-032416 (SDG AYE9) and ICS-MW4-GW-032916 (SDG AYK6), respectively. No results required qualification due to noncompliant LCS/LCSD and MS/MSD recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and hexachlorobenzene [HCB]), PCB's, and chlorinated phenols (PCP). Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-

toluene, 4-bromofluorobenzene and d_4-1,2-dichlorobenzene) and TPH-G (d_5-chlorobenzene, d_8-toluene, 4-bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM (M.8270D-SIM) utilized the surrogate compounds d_{10}-2-methylnaphthalene, d_{10}-fluoranthene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041 utilized 2,4,6-tribromophenol as the recovery surrogate compound. All surrogate recoveries were within specification, with the following exceptions: TCMX (chlor. pesticides) at 27% and 26% (specified range = 30-160%) in ICS-MW2-GW-032216 and Method Blank (4-1-16 for SDG AYG8), respectively, by M.8081B; *o*-terphenyl (TPH-Dx) at 45% (specified range = 50-150%) in ICS-MW1-GW-032216 by NWTPH-Dx; DCBP (chlor. pesticides) at 26% and 21% (specified range = 30-160%) in ICS-MW3-GW-032416 and ICS-SAMW1-GW-032416, respectively, by M.8081B; d_4-1,2-dichloroethane (VOC's) at 62% (specified range = 80-129%) in ICS-SAMW2-GW-032916 by M.8260C; and DCBP (PCB's) at 26% (specified range = 29-120%) and TCMX at 28% (specified range = 32-120%) in ICS-MW4-GW-032916 by M.8082. All of the above deviations are marginally outside the specified ranges and/or associated with analytes reported as nondetected. Other associated measures of recovery performance for analytes are in compliance with specified acceptance ranges.

Four phenolic surrogate compounds were employed for evaluation of phenolic and acidic analytes by M.8270D. M.8270D as applied for these analyses and specifically to this project due to specific reporting requirements is an enhanced method for improvement of lower reporting limits of all method analytes. These enhancements include increased sample extraction volumes utilizing separatory funnel technique. This method includes a default pH extraction range of 5.0 to 9.0 for extraction of acidic, neutral and basic compounds. This pH range is considered a compromise range to include all three classes of compounds. However, for this site, no basic compounds are included in the project compounds of concern. As a consequence, low-level phenolic/acidic compounds are expected to suffer some increased losses in recovery due to near-neutral pH extraction conditions. Optimum pH for extraction recovery of acidic compounds is near pH 2, as applied in M.8041 for the selective and efficient extraction of phenolic organic compounds. The laboratory applied their default advisory range for surrogate compound recoveries for SVOC analytes, including phenolic/acidic compounds, of 30-160%. As expected, and consistent with the observed recoveries of acidic compounds during LCS/LCSD and MS/MSD analyses by M.8270D, phenolic surrogate compounds exhibited some of the lowest recoveries of the eight surrogate compounds employed. All seven SDG's analyzed for SVOC's exhibited relatively low recoveries for d_5-phenol. The other three phenolic surrogate compounds exhibited recoveries within the default advisory range of 30-160% (with a couple of minor exceptions). The d_5-phenol recoveries ranged from 18-31%; for comparison, the recommended acceptance range for phenolic surrogate compound recoveries by M.8041 (a phenolic compound method) is 10-181%. It is determined that the recoveries exhibited by phenolic/acidic surrogate compounds analyzed by M.8270D (enhanced for low-level reporting limits) are reasonable and acceptable. Method 8270D recovery performance for this monitoring event is considered acceptable. No qualification of results was performed due to surrogate compounds performance.

Initial and continuing calibration verification (ICV/CCV) checks revealed occasional [minor] noncompliant responses (ICV/CCV RPD compared to initial calibration responses > 20) for methylene chloride, chloroethane, bromomethane, styrene, n-butylbenzene, 1,2,4-trichlorobenzene, carbon tetrachloride, trans-1,3-dichloropropene, bromoform, 4-methylphenol, acenaphthene, 2,4-dichlorophenol, benzoic acid, carbazole, 4-chlorophenylphenylether, butylbenzylphthalate, chrysene, pyrene, di-n-octylphthalate, benzo(g,h,i)perylene and dibenz(a,h)anthracene. Potentially affected sample results are required to be qualified with the "J_Q" code (detections are determined to be estimates based on calibration deviations). Results for chloroethane (6 samples), n-butylbenzene (3 samples), carbazole (3 samples), acenaphthene (3 samples) and pyrene (4 samples) required qualification due to non-compliant ICV/CCV performances.

TPH-Dx and TPH-G analyses indicate presence of principally weathered gasoline in samples from ICS-MWA-GW-033016, ICS-DUP2-GW-033016, ICS-MWB-GW-033016 and ICS-SAMW1-GW-032416; mineral spirits in ICS-SAMW1-GW-032416; weathered diesel fuel and mineral oil (associated with PCB's) in ICS-MWA-GW-033016 and ICS-DUP2-GW-033016; and motor oil lubricant in ICS-Ju(MW27)-GW-032816. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present; as summarized above.

Inspection of results indicated the dissolved (filtered) lead (Pb) and zinc (Zn) values reported for ICS-MW5-GW-032916 to likely be nonrepresentative due to elevated levels at 4.5 and 244 µg/L, respectively. The associated total results for Pb and Zn are 0.2 J and 0.02 J, respectively. A reanalysis of the initial digestates (within the recommended maximum holding time) for these two samples indicate highly biased results for the suspect filtered sample. The initially-reported results for Pb and Zn in the filtered sample are determined to be contaminated, likely by a contaminated [laboratory] instrument sampler tube, and are qualified with the "R" code as rejected or unusable. The results for reanalyses of both filtered and nonfiltered samples for ICS-MW5-GW-032916 are determined to be acceptable and are reported in the attached table as samples associated with delivery group BCL3 (169566-BCL3A and 169567-BCL3B).

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data for ground water samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Arsenic 7440-38-2		Cadmium 7440-43-9		Calcium 7440-70-2	Chromium 7440-47-3	
					diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L
ICS-DMCMWA-GW-112415	GW-mon. well	11/24/2015	nonfiltered	163991-AXI7O		**12.0**		**0.8**			**40**
ICS-DMCMWA-GW-112415	GW-mon. well	11/24/2015	field-filtered, 0.45 µm	163995-AXI7S			**0.08 J**				
ICS-DUPL2-GW-112415	DMCMWA dup.	11/24/2015	nonfiltered	163994-AXI7R		**12.4**		**0.8**			**41**
ICS-DUPL2-GW-112415	DMCMWA dup.	11/24/2015	field-filtered, 0.45 µm	163998-AXI7V			**0.08 J**				
ICS-MWA-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165264-AYM1A					**39,600**		
ICS-MWA-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165969-AZE2A		**8.6**		**0.4**			**30**
ICS-MWA-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165279-AYM4A							
ICS-MWA-GW-033016	GW-mon. well	3/30/2016	field-filtered, 0.45 µm	165270-AYM1G	**2.0**		0.1 U			**3**	
ICS-MWA-GW-033016	GW-mon. well	3/30/2016	field-filtered, 0.45 µm	165284-AYM4F							
ICS-DUP2-GW-033016	MWA dup.	3/30/2016	nonfiltered	165267-AYM1D					**38,000**		
ICS-DUP2-GW-033016	MWA dup.	3/30/2016	nonfiltered	165972-AZE2D		**9.5**		**0.4**			**32**
ICS-DUP2-GW-033016	MWA dup.	3/30/2016	nonfiltered	165282-AYM4D							
ICS-DUP2-GW-033016	MWA dup.	3/30/2016	field-filtered, 0.45 µm	165273-AYM1J	**2.0**		**0.01 J**			**2**	
ICS-DUP2-GW-033016	MWA dup.	3/30/2016	field-filtered, 0.45 µm	165288-AYM4I							
ICS-DMCMWB-GW-112415	GW-mon. well	11/24/2015	nonfiltered	163992-AXI7P		**6**		**0.1 J**			**9**
ICS-DMCMWB-GW-112415	GW-mon. well	11/24/2015	field-filtered, 0.45 µm	163996-AXI7T			0.5 U				
ICS-MWB-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165265-AYM1B					**130,000**		
ICS-MWB-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165970-AZE2B		**5**		**0.2 J**			**5**
ICS-MWB-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165280-AYM4B							
ICS-MWB-GW-033016	GW-mon. well	3/30/2016	field-filtered, 0.45 µm	165271-AYM1H	**4.5**		**0.02 J**			**4**	
ICS-MWB-GW-033016	GW-mon. well	3/30/2016	field-filtered, 0.45 µm	165285-AYM4G							
ICS-HCB1-GW-111915	GW-mon. well	11/19/2015	nonfiltered	163977-AXI7A		**0.3 J**		1 U			**3 J**
ICS-HCB1-GW-111915	GW-mon. well	11/19/2015	field-filtered, 0.45 µm	163981-AXI7E			**0.05 J**				
ICS-HCB1-GW-032416	GW-mon. well	3/24/2016	nonfiltered	164916-AYE9B					**217,000**		
ICS-HCB1-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165955-AZE1F		**0.8 J**		**0.05 J**			**6**
ICS-HCB1-GW-032416	GW-mon. well	3/24/2016	nonfiltered	164999-AYG1B							
ICS-HCB1-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	164922-AYE9H	**0.8 J**		**0.05 J**			**4**	
ICS-HCB1-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	165005-AYG1H							
ICS-HCB2R-GW-111115	GW-mon. well	11/11/2015	nonfiltered	163945-AXI6J		**2.6**		**0.04 J**			**0.3 J**
ICS-HCB2R-GW-111115	GW-mon. well	11/11/2015	field-filtered, 0.45 µm	163955-AXI6T			**0.03 J**				
ICS-HCB2R-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164915-AYE9A					**35,700**		
ICS-HCB2R-GW-032316	GW-mon. well	3/23/2016	nonfiltered	165954-AZE1E		**0.5**		**0.1**			**1.4**
ICS-HCB2R-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164998-AYG1A							
ICS-HCB2R-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164921-AYE9G	**0.1 J**		**0.1 J**			**0.2 J**	
ICS-HCB2R-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	165004-AYG1G							
ICS-DMCMWC-GW-112415	GW-mon. well	11/24/2015	nonfiltered	163993-AXI7Q		**1**		0.5 U			**3**
ICS-DMCMWC-GW-112415	GW-mon. well	11/24/2015	field-filtered, 0.45 µm	163997-AXI7U			**0.2 J**				
ICS-MWC-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165266-AYM1C					**240,000**		
ICS-MWC-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165971-AZE2C		**2**		0.5 U			**4**
ICS-MWC-GW-033016	GW-mon. well	3/30/2016	nonfiltered	165281-AYM4C							
ICS-MWC-GW-033016	GW-mon. well	3/30/2016	field-filtered, 0.45 µm	165272-AYM1I	**1 J**		0.5 U			**2 J**	
ICS-MWC-GW-033016	GW-mon. well	3/30/2016	field-filtered, 0.45 µm	165286-AYM4H							
ICS-MW1-GW-111115	GW-mon. well	11/11/2015	nonfiltered	163936-AXI6A		**6**		**0.2 J**			**24**
ICS-MW1-GW-111115	GW-mon. well	11/11/2015	field-filtered, 0.45 µm	163946-AXI6K			1 U				
ICS-MW1-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164677-AXZ6C					**135,000**		
ICS-MW1-GW-032216	GW-mon. well	3/22/2016	nonfiltered	165977-AZE2H		**9**		**0.2 J**			**26**
ICS-MW1-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164806-AYC0C							
ICS-MW1-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164683-AXZ6I	**4**		0.5 U			**7**	
ICS-MW1-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164811-AYC0H							

Remedial Investigation
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Groundwater Analyses, November 2015 and March 2016

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Arsenic 7440-38-2		Cadmium 7440-43-9		Calcium 7440-70-2	Chromium 7440-47-3	
					diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L
ICS-SAMW1-GW-112315	GW-mon. well	11/23/2015	nonfiltered	163986-AXI7J		**4.1**		**0.02 J**			**20**
ICS-SAMW1-GW-112315	GW-mon. well	11/23/2015	field-filtered, 0.45 µm	163989-AXI7M			0.1 U				
ICS-SAMW1-GW-032416	GW-mon. well	3/24/2016	nonfiltered	164919-AYE9E					**19,300**		
ICS-SAMW1-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165958-AZE1I		**2**		0.2 U			**15**
ICS-SAMW1-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165002-AYG1E							
ICS-SAMW1-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	164925-AYE9K	**2.3**		0.2 U			**13**	
ICS-SAMW1-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	165008-AYG1K							
ICS-MW2-GW-111115	GW-mon. well	11/11/2015	nonfiltered	163937-AXI6B		**4.2**		**0.01 J**			**65.7**
ICS-MW2-GW-111115	GW-mon. well	11/11/2015	field-filtered, 0.45 µm	163947-AXI6L			**0.01 J**				
ICS-MW2-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164678-AXZ6D					**12,700**		
ICS-MW2-GW-032216	GW-mon. well	3/22/2016	nonfiltered	165978-AZE2I		**4**		**0.01 J**			**76**
ICS-MW2-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164807-AYC0D							
ICS-MW2-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164684-AXZ6J	**4.1**		0.2 U			**69**	
ICS-MW2-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164812-AYC0I							
ICS-SAMW2-GW-112015	GW-mon. well	11/20/2015	nonfiltered	163965-AXI6AD		**2**		0.5 U			**3**
ICS-SAMW2-GW-112015	GW-mon. well	11/20/2015	field-filtered, 0.45 µm	163971-AXI6AJ			**0.05 J**				
ICS-SAMW2-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165204-AYK6D					**46,600**		
ICS-SAMW2-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165968-AZE1S		**4**		**0.02 J**			**6**
ICS-SAMW2-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165213-AYK7D							
ICS-SAMW2-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165209-AYK6I	**3.7**		**0.01 J_B**			**5**	
ICS-SAMW2-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165217-AYK7H							
ICS-MW3-GW-112015	GW-mon. well	11/20/2015	nonfiltered	163960-AXI6Y		**5.1**		0.2 U			**75**
ICS-MW3-GW-112015	GW-mon. well	11/20/2015	field-filtered, 0.45 µm	163966-AXI6AE			0.2 U				
ICS-MW3-GW-032416	GW-mon. well	3/24/2016	nonfiltered	164917-AYE9C					**21,400**		
ICS-MW3-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165956-AZE1G		**6**		**0.02 J**			**82**
ICS-MW3-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165000-AYG1C							
ICS-MW3-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	164923-AYE9I	**6.0**		**0.04 J**			**75**	
ICS-MW3-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	165006-AYG1I							
ICS-SAMW3-GW-111915	GW-mon. well	11/19/2015	nonfiltered	163980-AXI7D		**0.7 J**		**0.2 J**			**1 J**
ICS-SAMW3-GW-111915	GW-mon. well	11/19/2015	field-filtered, 0.45 µm	163984-AXI7H			**0.2 J**				
ICS-SAMW3-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165049-AYI7D					**9240**		
ICS-SAMW3-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165963-AZE1N		**0.7**		**0.04 J**			**2**
ICS-SAMW3-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165102-AYI8D							
ICS-SAMW3-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165054-AYI7I	**0.4 J**		**0.02 J**			**1**	
ICS-SAMW3-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165107-AYI8I							
ICS-MW4-GW-111115	GW-mon. well	11/11/2015	nonfiltered	163938-AXI6C		**3.0**		**0.01 J**			**46.4**
ICS-MW4-GW-111115	GW-mon. well	11/11/2015	field-filtered, 0.45 µm	163948-AXI6M			0.1 U				
ICS-MW4-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165201-AYK6A					**12,500**		
ICS-MW4-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165965-AZE1P		**3**		**0.01 J**			**64**
ICS-MW4-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165210-AYK7A							
ICS-MW4-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165206-AYK6F	**2.8**		**0.01 J_B**			**67**	
ICS-MW4-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165214-AYK7E							
ICS-MW5-GW-112015	GW-mon. well	11/20/2015	nonfiltered	163961-AXI6Z		**0.5**		0.1 U			**11**
ICS-MW5-GW-112015	GW-mon. well	11/20/2015	field-filtered, 0.45 µm	163967-AXI6AF			0.1 U				
ICS-MW5-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165202-AYK6B					**12,100**		
ICS-MW5-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165966-AZE1Q		**0.6**		**0.02 J**			**12**
ICS-MW5-GW-032916	GW-mon. well	3/29/2016	nonfiltered	169566-BCL3A							
ICS-MW5-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165211-AYK7B							
ICS-MW5-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165207-AYK6G	**0.5**		**0.02 J_B**			**12**	
ICS-MW5-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	169567-BCL3B							
ICS-MW5-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165215-AYK7F							

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Arsenic 7440-38-2		Cadmium 7440-43-9		Calcium 7440-70-2	Chromium 7440-47-3	
					diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L
ICS-MW6-GW-111915	GW-mon. well	11/19/2015	nonfiltered	163978-AXI7B		**0.4**		**0.01 J**			**9**
ICS-MW6-GW-111915	GW-mon. well	11/19/2015	field-filtered, 0.45 µm	163982-AXI7F			0.1 U				
ICS-MW6-GW-032416	GW-mon. well	3/24/2016	nonfiltered	164918-AYE9D					**22,100**		
ICS-MW6-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165957-AZE1H		**0.5**		**0.02 J**			**10**
ICS-MW6-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165001-AYG1D							
ICS-MW6-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	164924-AYE9J	**0.4 J**		**0.02 J**			**8**	
ICS-MW6-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	165007-AYG1J							
ICS-MW7-GW-112315	GW-mon. well	11/23/2015	nonfiltered	163985-AXI7I		**0.9**		0.1 U			**7**
ICS-MW7-GW-112315	GW-mon. well	11/23/2015	field-filtered, 0.45 µm	163988-AXI7L			0.1 U				
ICS-DUPL1-GW-112315	GW-MW7 dup.	11/23/2015	nonfiltered	163987-AXI7K		**0.9**		0.1 U			**7**
ICS-DUPL1-GW-112315	GW-MW7 dup.	11/23/2015	field-filtered, 0.45 µm	163990-AXI7N			0.1 U				
ICS-MW7-GW-032516	GW-mon. well	3/25/2016	nonfiltered	165024-AYG8A					**18,200**		
ICS-MW7-GW-032516	GW-mon. well	3/25/2016	nonfiltered	166109-AZH9A		**1.2**		0.1 U			**6.3**
ICS-MW7-GW-032516	GW-mon. well	3/25/2016	nonfiltered	165032-AYH0A							
ICS-MW7-GW-032516	GW-mon. well	3/25/2016	field-filtered, 0.45 µm	165026-AYG8C	**1.1**		0.2 U			**7**	
ICS-MW7-GW-032516	GW-mon. well	3/25/2016	field-filtered, 0.45 µm	165034-AYH0C							
ICS-DUP1-GW-032516	GW-MW7 dup.	3/25/2016	nonfiltered	165025-AYG8B					**19,100**		
ICS-DUP1-GW-032516	GW-MW7 dup.	3/25/2016	nonfiltered	166110-AZH9B		**1.2**		**0.01 J**			**5.8**
ICS-DUP1-GW-032516	GW-MW7 dup.	3/25/2016	nonfiltered	165033-AYH0B							
ICS-DUP1-GW-032516	GW-MW7 dup.	3/25/2016	field-filtered, 0.45 µm	165027-AYG8D	**1.2**		0.2 U			**7**	
ICS-DUP1-GW-032516	GW-MW7 dup.	3/25/2016	field-filtered, 0.45 µm	165035-AYH0D							
ICS-MW8-GW-112015	GW-mon. well	11/20/2015	nonfiltered	163962-AXI6AA		**9.9**		0.1 U			**3**
ICS-MW8-GW-112015	GW-mon. well	11/20/2015	field-filtered, 0.45 µm	163968-AXI6AG			0.1 U				
ICS-MW8-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164679-AXZ6E					**30,300**		
ICS-MW8-GW-032216	GW-mon. well	3/22/2016	nonfiltered	165979-AZE2J		**9**		**0.01 J**			**2.6**
ICS-MW8-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164808-AYC0E							
ICS-MW8-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164685-AXZ6K	**10.1**		**0.02 J**			**4**	
ICS-MW8-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164813-AYC0J							
ICS-Cp(MW20)-GW-032516	GW-mon. well	3/25/2016	nonfiltered	165030-AYG8G							
ICS-Du(MW22)-GW-111815	GW-mon. well	11/18/2015	nonfiltered	163956-AXI6U		**1.6**		0.1 U			**10**
ICS-Du(MW22)-GW-111815	GW-mon. well	11/18/2015	field-filtered, 0.45 µm	163958-AXI6W			**0.01 J**				
ICS-Du(MW22)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165047-AYI7B					**16,100**		
ICS-Du(MW22)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165961-AZE1L		**2**		**0.01 J**			**13**
ICS-Du(MW22)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165100-AYI8B							
ICS-Du(MW22)-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165052-AYI7G	**1.8**		**0.02 J**			**10**	
ICS-Du(MW22)-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165105-AYI8G							
ICS-Dp(MW23)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165056-AYI7K							
ICS-Hl(MW24)-GW-111815	GW-mon. well	11/18/2015	nonfiltered	163957-AXI6V		**0.3 J**		0.2 U			**2 J**
ICS-Hl(MW24)-GW-111815	GW-mon. well	11/18/2015	field-filtered, 0.45 µm	163959-AXI6X			0.5 U				
ICS-Hl(MW24)-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165203-AYK6C					**63,200**		
ICS-Hl(MW24)-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165967-AZE1R		**0.4 J**		0.5 U			**3**
ICS-Hl(MW24)-GW-032916	GW-mon. well	3/29/2016	nonfiltered	165212-AYK7C							
ICS-Hl(MW24)-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165208-AYK6H	**0.2 J**		0.2 U			**2 J**	
ICS-Hl(MW24)-GW-032916	GW-mon. well	3/29/2016	field-filtered, 0.45 µm	165216-AYK7G							
ICS-Ap(MW25)-GW-032516	GW-mon. well	3/25/2016	nonfiltered	165028-AYG8E							
ICS-Ju(MW27)-GW-112015	GW-mon. well	11/20/2015	nonfiltered	163963-AXI6AB		**2.2**		**0.02 J**			**3**
ICS-Ju(MW27)-GW-112015	GW-mon. well	11/20/2015	field-filtered, 0.45 µm	163969-AXI6AH			**0.01 J**				
ICS-Ju(MW27)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165050-AYI7E					**24,600**		
ICS-Ju(MW27)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165964-AZE1O		**3**		**0.04 J**			**2**
ICS-Ju(MW27)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165103-AYI8E							
ICS-Ju(MW27)-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165055-AYI7J	**3.3**		0.2 U			**2**	
ICS-Ju(MW27)-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165108-AYI8J							

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Arsenic 7440-38-2		Cadmium 7440-43-9		Calcium 7440-70-2	Chromium 7440-47-3	
					diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L
ICS-Eu(MW28)-GW-111915	GW-mon. well	11/19/2015	nonfiltered	163979-AXI7C		**3**		**0.05 J**			**13**
ICS-Eu(MW28)-GW-111915	GW-mon. well	11/19/2015	field-filtered, 0.45 µm	163983-AXI7G			1 U				
ICS-Eu(MW28)-GW-032416	GW-mon. well	3/24/2016	nonfiltered	164920-AYE9F					**269,000**		
ICS-Eu(MW28)-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165959-AZE1J		**3**		**0.05 J**			**9**
ICS-Eu(MW28)-GW-032416	GW-mon. well	3/24/2016	nonfiltered	165003-AYG1F							
ICS-Eu(MW28)-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	164926-AYE9L	**3**		**0.1 J**			**4 J**	
ICS-Eu(MW28)-GW-032416	GW-mon. well	3/24/2016	field-filtered, 0.45 µm	165009-AYG1L							
ICS-Fu(MW30)-GW-111115	GW-mon. well	11/11/2015	nonfiltered	163939-AXI6D		**0.7**		**0.02 J**			**0.2 J**
ICS-Fu(MW30)-GW-111115	GW-mon. well	11/11/2015	field-filtered, 0.45 µm	163949-AXI6N			**0.03 J**				
ICS-Fu(MW30)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164779-AYB4A					**85,600**		
ICS-Fu(MW30)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	165950-AZE1A		**0.2 J**		**0.02 J**			**0.2 J_B**
ICS-Fu(MW30)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164819-AYC2A							
ICS-Fu(MW30)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164784-AYB4F	**0.2 J**		**0.02 J**			**0.2 J_B**	
ICS-Fu(MW30)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164823-AYC2E							
ICS-Fl(MW31)-GW-111015	GW-mon. well	11/10/2015	nonfiltered	163940-AXI6E		**1.3**		**0.01 J**			**21**
ICS-Fl(MW31)-GW-111015	GW-mon. well	11/10/2015	field-filtered, 0.45 µm	163950-AXI6O			0.2 U				
ICS-Fl(MW31)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164780-AYB4B					**60,600**		
ICS-Fl(MW31)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	165951-AZE1B		**1 J**		**0.05 J**			**21**
ICS-Fl(MW31)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164820-AYC2B							
ICS-Fl(MW31)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164785-AYB4G	**0.9 J**		0.5 U			**20**	
ICS-Fl(MW31)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164824-AYC2F							
ICS-Gl(MW32)-GW-111015	GW-mon. well	11/10/2015	nonfiltered	163942-AXI6G		**0.7**		**0.01 J**			**2**
ICS-Gl(MW32)-GW-111015	GW-mon. well	11/10/2015	field-filtered, 0.45 µm	163952-AXI6Q			0.5 U				
ICS-Gl(MW32)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164782-AYB4D					**110,000**		
ICS-Gl(MW32)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	165953-AZE1D		**1 J**		**0.05 J**			**4**
ICS-Gl(MW32)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164822-AYC2D							
ICS-Gl(MW32)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164787-AYB4I	**0.8 J**		**0.05 J**			**3**	
ICS-Gl(MW32)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164826-AYC2H							
ICS-Gu(MW33)-GW-111015	GW-mon. well	11/10/2015	nonfiltered	163941-AXI6F		**0.9**		**0.01 J**			**2**
ICS-Gu(MW33)-GW-111015	GW-mon. well	11/10/2015	field-filtered, 0.45 µm	163951-AXI6P			0.1 U				
ICS-Gu(MW33)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164781-AYB4C					**124,000**		
ICS-Gu(MW33)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	165952-AZE1C		**1.8**		**0.01 J**			**3.3**
ICS-Gu(MW33)-GW-032316	GW-mon. well	3/23/2016	nonfiltered	164821-AYC2C							
ICS-Gu(MW33)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164786-AYB4H	**1.8**		0.2 U			**3**	
ICS-Gu(MW33)-GW-032316	GW-mon. well	3/23/2016	field-filtered, 0.45 µm	164825-AYC2G							
ICS-Ku(MW34)-GW-111015	GW-mon. well	11/10/2015	nonfiltered	163943-AXI6H		**0.5**		**0.03 J**			**0.6**
ICS-Ku(MW34)-GW-111015	GW-mon. well	11/10/2015	field-filtered, 0.45 µm	163953-AXI6R			**0.02 J**				
ICS-Ku(MW34)-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164675-AXZ6A					**36,800**		
ICS-Ku(MW34)-GW-032216	GW-mon. well	3/22/2016	nonfiltered	165975-AZE2F		**0.7**		**0.07 J**			**0.9**
ICS-Ku(MW34)-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164804-AYC0A							
ICS-Ku(MW34)-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164681-AXZ6G	**0.5**		**0.07 J**			**0.5 J**	
ICS-Ku(MW34)-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164809-AYC0F							
ICS-Kl(MW35)-GW-111015	GW-mon. well	11/10/2015	nonfiltered	163944-AXI6I		**0.5**		**0.01 J**			**3**
ICS-Kl(MW35)-GW-111015	GW-mon. well	11/10/2015	field-filtered, 0.45 µm	163954-AXI6S			0.2 U				
ICS-Kl(MW35)-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164676-AXZ6B					**43,600**		
ICS-Kl(MW35)-GW-032216	GW-mon. well	3/22/2016	nonfiltered	165976-AZE2G		**0.3 J**		**0.05 J**			**3**
ICS-Kl(MW35)-GW-032216	GW-mon. well	3/22/2016	nonfiltered	164805-AYC0B							
ICS-Kl(MW35)-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164682-AXZ6H	**0.5 J**		0.5 U			**3**	
ICS-Kl(MW35)-GW-032216	GW-mon. well	3/22/2016	field-filtered, 0.45 µm	164810-AYC0G							

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Arsenic 7440-38-2		Cadmium 7440-43-9		Calcium 7440-70-2	Chromium 7440-47-3	
					diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L
ICS-Il(MW36)-GW-112015	GW-mon. well	11/20/2015	nonfiltered	163964-AXI6AC		**0.4 J**		0.5 U			**4**
ICS-Il(MW36)-GW-112015	GW-mon. well	11/20/2015	field-filtered, 0.45 µm	163970-AXI6AI			1 U				
ICS-Il(MW36)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165048-AYI7C					**83,400**		
ICS-Il(MW36)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165962-AZE1M		**0.8 J**		**0.05 J**			**6**
ICS-Il(MW36)-GW-032816	GW-mon. well	3/28/2016	nonfiltered	165101-AYI8C							
ICS-Il(MW36)-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165053-AYI7H	**0.7 J**		0.5 U			**5**	
ICS-Il(MW36)-GW-032816	GW-mon. well	3/28/2016	field-filtered, 0.45 µm	165106-AYI8H							
ICS-Bp(MW38)-GW-032516	GW-mon. well	3/25/2016	nonfiltered	165029-AYG8F							
Trip Blank	blank water	3/22/2016	trip/transport blank	164680-AXZ6F							
Trip Blank	blank water	3/23/2016	trip/transport blank	164783-AYB4E							
Trip Blank	blank water	3/24/2016	trip/transport blank	164927-AYE9M							
ICS-RB1-GW-032716	field equip rinsate	3/27/2016	nonfiltered	165046-AYI7A					**38 J**		
ICS-RB1-GW-032716	field equip rinsate	3/27/2016	nonfiltered	165960-AZE1K		0.2 U		**0.01 J**			**0.3 J**
ICS-RB1-GW-032716	field equip rinsate	3/27/2016	nonfiltered	165099-AYI8A							
ICS-RB1-GW-032716	field equip rinsate	3/27/2016	field-filtered, 0.45 µm	1650516-AYI7F	0.2 U		0.1 U			**0.2 J_B**	
ICS-RB1-GW-032716	field equip rinsate	3/27/2016	field-filtered, 0.45 µm	165104-AYI8F							
Trip Blank	blank water	3/28/2016	trip/transport blank	165057-AYI7L							
Trip Blank	blank water	3/29/2016	trip/transport blank	165205-AYK6E							
Trip Blank	blank water	3/30/2016	trip/transport blank	165269-AYM1F							
ICS-RB2-GW-033016	field equip rinsate	3/30/2016	nonfiltered	165268-AYM1E					**46 J**		
ICS-RB2-GW-033016	field equip rinsate	3/30/2016	nonfiltered	165973-AZE2E		0.2 U		0.1 U			**0.2 J_B**
ICS-RB2-GW-033016	field equip rinsate	3/30/2016	nonfiltered	165283-AYM4E							
ICS-RB2-GW-033016	field equip rinsate	3/30/2016	nonfiltered	165274-AYM1K	0.2 U		**0.01 J_B**			0.5 U	
ICS-RB2-GW-033016	field equip rinsate	3/30/2016	nonfiltered	165290-AYM4J							

J = estimate associated with value less than the verifiable lower quantitation limit (LOQ).

J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-DMCMWA-GW-112415		**41.4**		**306**					**20.2**		**0.2 J**			**188**	
ICS-DMCMWA-GW-112415										**0.02 J**					
ICS-DUPL2-GW-112415		**44.1**		**318**					**21.5**		**0.2 J**			**199**	
ICS-DUPL2-GW-112415										**0.02 J**					
ICS-MWA-GW-033016					**66,700**							**473,000**			374
ICS-MWA-GW-033016		**26**		**206**					**12**		**0.1 J**			**240**	
ICS-MWA-GW-033016							**190**								
ICS-MWA-GW-033016	**0.3 J**		**0.08 J**					**0.3 J**		**0.01 J**			4 U		
ICS-MWA-GW-033016						20 U									
ICS-DUP2-GW-033016					**62,900**							**439,000**			354
ICS-DUP2-GW-033016		**30**		**235**					**14**		**0.1 J**			**160**	
ICS-DUP2-GW-033016							**157**								
ICS-DUP2-GW-033016	**0.2 J**		**0.1**					**0.3 J**		**0.01 J**			**0.4 J**		
ICS-DUP2-GW-033016						20 U									
ICS-DMCMWB-GW-112415		**4**		**32.8**					**2 J**		**0.05 J**			**30**	
ICS-DMCMWB-GW-112415										**0.05 J**					
ICS-MWB-GW-033016					**148,000**							**955,000**			935
ICS-MWB-GW-033016		**2 J**		**12.6**					**2 J**		1 U			**13 J**	
ICS-MWB-GW-033016							**14 J**								
ICS-MWB-GW-033016	**0.5 J**		**0.1 J**					**0.7 J**		0.4 U			**3 J**		
ICS-MWB-GW-033016						**7 J**									
ICS-HCB1-GW-111915		5 U		**0.04 J**					**0.3 J**		2 U			40 U	
ICS-HCB1-GW-111915										1 U					
ICS-HCB1-GW-032416					**366,000**							**2,660,000**			2050
ICS-HCB1-GW-032416		**0.5 J**		**0.3 J**					**0.4 J**		1 U			**5 J**	
ICS-HCB1-GW-032416							20 U								
ICS-HCB1-GW-032416	**0.3 J**		**0.2 J**					**0.4 J**		1 U			20 U		
ICS-HCB1-GW-032416						**3 J**									
ICS-HCB2R-GW-111115		**0.4 J**		**0.2**					**2.3**		0.2 U			**10**	
ICS-HCB2R-GW-111115										0.2 U					
ICS-HCB2R-GW-032316					**3100**							**3520**			102
ICS-HCB2R-GW-032316		**3.6**		**5.9**					**2.5**		**0.03 J**			**19**	
ICS-HCB2R-GW-032316							**20 J**								
ICS-HCB2R-GW-032316	**2.7**		**0.02 J**					**2.3**		**0.01 J**			**16**		
ICS-HCB2R-GW-032316						**3 J**									
ICS-DMCMWC-GW-112415		**2 J**		**1.6**					**0.9 J**		1 U			**4 J**	
ICS-DMCMWC-GW-112415										2 U					
ICS-MWC-GW-033016					**319,000**							**2,290,000**			1914
ICS-MWC-GW-033016		**3**		**2.4**					**1 J**		**0.05 J**			**8 J**	
ICS-MWC-GW-033016							**27**								
ICS-MWC-GW-033016	**1 J**		**0.2 J**					**0.3 J**		1 U			**15 J**		
ICS-MWC-GW-033016						**5 J**									
ICS-MW1-GW-111115		**22**		**20**					**12**		**0.05 J**			**40**	
ICS-MW1-GW-111115										2 U					
ICS-MW1-GW-032216					**266,000**							**2,120,000**			1433
ICS-MW1-GW-032216		**24**		**14.8**					**17**		**0.1 J**			**60**	
ICS-MW1-GW-032216							**58**								
ICS-MW1-GW-032216	**0.5 J**		**0.2 J**					**6**		**0.05 J**			**3 J_B**		
ICS-MW1-GW-032216						**4 J**									

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-SAMW1-GW-112315		**3.3**		**2.0**					**10.4**		**0.2 J**			**5**	
ICS-SAMW1-GW-112315										**0.1 J**					
ICS-SAMW1-GW-032416					**17,400**							**828,000**			120
ICS-SAMW1-GW-032416		**3**		**1.8**					**3**		**0.1 J**			**5 J**	
ICS-SAMW1-GW-032416							**15 J**								
ICS-SAMW1-GW-032416	**1.0 J**		**0.7**					**2**		**0.1 J**			**4 J_B**		
ICS-SAMW1-GW-032416						**6 J**									
ICS-MW2-GW-111115		**15.4**		**1.0**					**1.8**		**0.2 J**			**5**	
ICS-MW2-GW-111115										**0.2 J**					
ICS-MW2-GW-032216					**18,100**							**454,000**			106
ICS-MW2-GW-032216		**16**		**1.2**					**1.4**		**0.2 J**			**3 J**	
ICS-MW2-GW-032216							**14 J**								
ICS-MW2-GW-032216	**15**		**1.1**					**1**		**0.2 J**			**4 J_B**		
ICS-MW2-GW-032216						**12 J**									
ICS-SAMW2-GW-112015		**1 J**		**0.6**					**4**		1 U			**2 J**	
ICS-SAMW2-GW-112015										2 U					
ICS-SAMW2-GW-032916					**31,100**							**329,000**			245
ICS-SAMW2-GW-032916		**0.7 J**		**0.8**					**3**		**0.02 J**			**4 J**	
ICS-SAMW2-GW-032916							**6 J**								
ICS-SAMW2-GW-032916	**0.3 J**		**0.1**					**2.7**		**0.01 J**			**0.6 J_B**		
ICS-SAMW2-GW-032916						20 U									
ICS-MW3-GW-112015		**10**		**0.7**					**2**		**0.1 J**			**3 J**	
ICS-MW3-GW-112015										**0.1 J**					
ICS-MW3-GW-032416					**51,000**							**399,000**			264
ICS-MW3-GW-032416		**11**		**1.8**					**2**		**0.1 J**			**5 J**	
ICS-MW3-GW-032416							**15 J**								
ICS-MW3-GW-032416	**11**		**0.8**					**2**		**0.2 J**			**4 J_B**		
ICS-MW3-GW-032416						**15 J**									
ICS-SAMW3-GW-111915		**5**		**0.05 J**					**3**		**0.05 J**			**12 J**	
ICS-SAMW3-GW-111915										1 U					
ICS-SAMW3-GW-032816					**20,900**							**520,000**			109
ICS-SAMW3-GW-032816		**5**		**0.2 J**					**0.9 J**		**0.04 J**			**4 J**	
ICS-SAMW3-GW-032816							**10 J**								
ICS-SAMW3-GW-032816	**4**		**0.08 J**					**0.8 J**		**0.02 J**			**9 J**		
ICS-SAMW3-GW-032816						**9 J**									
ICS-MW4-GW-111115		**15.6**		**0.9**					**1.3**		**0.1 J**			**3 J**	
ICS-MW4-GW-111115										**0.1 J**					
ICS-MW4-GW-032916					**18,300**							**323,000**			107
ICS-MW4-GW-032916		**16**		**0.9**					**1.3**		**0.1 J**			**3 J**	
ICS-MW4-GW-032916							**22**								
ICS-MW4-GW-032916	**13.7**		**0.9**					**1.3**		**0.1 J**			**3 J**		
ICS-MW4-GW-032916						**10 J**									
ICS-MW5-GW-112015		**3.7**		**0.2**					**0.6**		**0.2 J**			**1 J**	
ICS-MW5-GW-112015										**0.02 J**					
ICS-MW5-GW-032916					**19,500**							**231,000**			111
ICS-MW5-GW-032916		**3**		**0.2 J**					**0.4 J**		**0.02 J**			**2 J**	
ICS-MW5-GW-032916				**0.2**										**1 J**	
ICS-MW5-GW-032916							20 U								
ICS-MW5-GW-032916	**2.8**		**R**					**0.5 J**		**0.03 J**			**R**		
ICS-MW5-GW-032916			**0.2**										**1 J**		
ICS-MW5-GW-032916						**3 J**									

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-MW6-GW-111915		**2.5**		**0.2**					**0.8**		**0.01 J**			**52**	
ICS-MW6-GW-111915										**0.02 J**					
ICS-MW6-GW-032416					**27,000**							**252,000**			166
ICS-MW6-GW-032416		**3**		**0.3**					**1**		**0.02 J**			**430**	
ICS-MW6-GW-032416							20 U								
ICS-MW6-GW-032416	**2**		**0.1 J**					**0.9 J**		**0.02 J**			**228**		
ICS-MW6-GW-032416						20 U									
ICS-MW7-GW-112315		**0.3 J**		**0.02 J**					**1.5**		**0.01 J**			**0.5 J**	
ICS-MW7-GW-112315										**0.02 J**					
ICS-DUPL1-GW-112315		**0.3 J**		**0.03 J**					**1.5**		**0.01 J**			**0.5 J**	
ICS-DUPL1-GW-112315										**0.01 J**					
ICS-MW7-GW-032516					**4310**							**385,000**			63
ICS-MW7-GW-032516		**0.1 J_B**		**0.04 J_B**					**1.4**		**0.01 J**			4 U	
ICS-MW7-GW-032516							20 U								
ICS-MW7-GW-032516	**0.1 J_B**		**0.02 J_B**					**1**		**0.02 J**			**0.6 J**		
ICS-MW7-GW-032516						20 U									
ICS-DUP1-GW-032516					**4550**							**403,000**			66
ICS-DUP1-GW-032516		**0.2 J_B**		**0.04 J_B**					**1.3**		**0.01 J**			4 U	
ICS-DUP1-GW-032516							20 U								
ICS-DUP1-GW-032516	**0.2 J**		**0.04 J_B**					**1**		**0.02 J**			**0.7 J**		
ICS-DUP1-GW-032516						**3 J**									
ICS-MW8-GW-112015		**1.0**		**2.8**					**5.2**		**0.01 J**			**3 J**	
ICS-MW8-GW-112015										**0.01 J**					
ICS-MW8-GW-032216					**33,000**							**129,000**			212
ICS-MW8-GW-032216		**0.8**		**2.7**					**5**		**0.01 J**			**1 J**	
ICS-MW8-GW-032216							**11 J**								
ICS-MW8-GW-032216	**0.2 J**		**0.04 J**					**5**		**0.02 J**			**1 J_B**		
ICS-MW8-GW-032216						20 U									
ICS-Cp(MW20)-GW-032516															
ICS-Du(MW22)-GW-111815		**4.0**		**1.0**					**2.1**		**0.02 J**			**6**	
ICS-Du(MW22)-GW-111815										**0.02 J**					
ICS-Du(MW22)-GW-032816					**12,600**							**153,000**			92
ICS-Du(MW22)-GW-032816		**4**		**1.2**					**1.0**		**0.03 J**			**2 J**	
ICS-Du(MW22)-GW-032816							**17 J**								
ICS-Du(MW22)-GW-032816	**3**		**0.3**					**0.8 J**		**0.02 J**			**3 J**		
ICS-Du(MW22)-GW-032816						**4 J_B**									
ICS-Dp(MW23)-GW-032816															
ICS-Hl(MW24)-GW-111815		**0.4 J**		**1.1**					**0.7 J**		1 U			**3 J**	
ICS-Hl(MW24)-GW-111815										1 U					
ICS-Hl(MW24)-GW-032916					**119,000**							**1,020,000**			648
ICS-Hl(MW24)-GW-032916		**0.7 J**		**0.3 J**					**0.4 J**		1 U			**6 J**	
ICS-Hl(MW24)-GW-032916							**10 J**								
ICS-Hl(MW24)-GW-032916	**0.3 J**		**0.04 J**					**0.2 J**		0.4 U			**3 J**		
ICS-Hl(MW24)-GW-032916						20 U									
ICS-Ap(MW25)-GW-032516															
ICS-Ju(MW27)-GW-112015		**2.0**		**2.8**					**5.0**		**0.01 J**			**3 J**	
ICS-Ju(MW27)-GW-112015										0.5 U					
ICS-Ju(MW27)-GW-032816					**22,900**							**268,000**			156
ICS-Ju(MW27)-GW-032816		**3**		**4.4**					**3**		**0.02 J**			**30**	
ICS-Ju(MW27)-GW-032816							**13 J**								
ICS-Ju(MW27)-GW-032816	**1 J**		**1.3**					**3**		0.4 U			**19**		
ICS-Ju(MW27)-GW-032816						**7 J**									

Field I.D.	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-Eu(MW28)-GW-111915		**8**		**23.4**					**8**		**0.05 J**			**27 J**	
ICS-Eu(MW28)-GW-111915										2 U					
ICS-Eu(MW28)-GW-032416					**531,000**							**3,360,000**			2860
ICS-Eu(MW28)-GW-032416		**2 J**		**9.4**					**3**		**0.05 J**			**16 J**	
ICS-Eu(MW28)-GW-032416							**15 J**								
ICS-Eu(MW28)-GW-032416	**0.4 J**		**0.1 J**					**2 J**		**0.1 J**			40 U		
ICS-Eu(MW28)-GW-032416						**5 J**									
ICS-Fu(MW30)-GW-111115		**2.2**		**0.01 J**					**3.0**		0.2 U			**2 J**	
ICS-Fu(MW30)-GW-111115										0.2 U					
ICS-Fu(MW30)-GW-032316					**14,300**							**20,700**			273
ICS-Fu(MW30)-GW-032316		**1.9**		**0.01 J**					**1.3**		0.2 U			**0.7 J**	
ICS-Fu(MW30)-GW-032316							20 U								
ICS-Fu(MW30)-GW-032316	**2.1**		**0.01 J_B**					**1.3**		**0.01 J**			**1 J**		
ICS-Fu(MW30)-GW-032316						20 U									
ICS-Fl(MW31)-GW-111015		**2.1**		**0.4**					**3.1**		**0.07 J**			**2 J**	
ICS-Fl(MW31)-GW-111015										**0.05 J**					
ICS-Fl(MW31)-GW-032316					**122,000**							**1,100,000**			654
ICS-Fl(MW31)-GW-032316		**4**		**0.3 J**					**1 J**		**0.05 J**			**7 J**	
ICS-Fl(MW31)-GW-032316							**5 J**								
ICS-Fl(MW31)-GW-032316	**0.9 J**		**0.1 J**					**1 J**		**0.05 J**			**1 J**		
ICS-Fl(MW31)-GW-032316						**4 J**									
ICS-Gl(MW32)-GW-111015		**1.0**		**0.1**					**0.9**		**0.01 J**			**1 J**	
ICS-Gl(MW32)-GW-111015										1 U					
ICS-Gl(MW32)-GW-032316					**252,000**							**2,020,000**			1313
ICS-Gl(MW32)-GW-032316		**0.4 J**		**0.2 J**					**0.4 J**		1 U			**6 J**	
ICS-Gl(MW32)-GW-032316							20 U								
ICS-Gl(MW32)-GW-032316	**0.3 J**		**0.05 J**					**0.4 J**		1 U			20 U		
ICS-Gl(MW32)-GW-032316						20 U									
ICS-Gu(MW33)-GW-111015		**0.6**		**0.2**					**1.8**		**0.01 J**			**3 J**	
ICS-Gu(MW33)-GW-111015										0.2 U					
ICS-Gu(MW33)-GW-032316					**126,000**							**123,000**			829
ICS-Gu(MW33)-GW-032316		**1.3**		**0.5**					**1.3**		**0.01 J**			**2 J**	
ICS-Gu(MW33)-GW-032316							20 U								
ICS-Gu(MW33)-GW-032316	**0.8 J**		**0.3**					**1**		**0.02 J**			**1 J**		
ICS-Gu(MW33)-GW-032316						**3 J**									
ICS-Ku(MW34)-GW-111015		**3.3**		**0.05 J**					**3.6**		0.2 U			**3 J**	
ICS-Ku(MW34)-GW-111015										0.2 U					
ICS-Ku(MW34)-GW-032216					**6890**							**37,000**			120
ICS-Ku(MW34)-GW-032216		**3**		**0.2**					**3**		0.2 U			**11**	
ICS-Ku(MW34)-GW-032216							20 U								
ICS-Ku(MW34)-GW-032216	**2.7**		**0.01 J**					**3.1**		0.2 U			**10**		
ICS-Ku(MW34)-GW-032216						20 U									
ICS-Kl(MW35)-GW-111015		**1.5**		**0.8**					**1.0**		**0.01 J**			**18**	
ICS-Kl(MW35)-GW-111015										**0.01 J**					
ICS-Kl(MW35)-GW-032216					**115,000**							**1,180,000**			583
ICS-Kl(MW35)-GW-032216		**0.4 J**		**0.2 J**					**0.5 J**		1 U			**3 J**	
ICS-Kl(MW35)-GW-032216							**5 J**								
ICS-Kl(MW35)-GW-032216	**0.2 J**		**0.05 J**					**0.5 J**		**0.05 J**			20 U		
ICS-Kl(MW35)-GW-032216						20 U									

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Copper 7440-50-8		Lead 7439-92-1		Magnesium 7439-95-4	Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Sodium 7440-23-5	Zinc 7440-66-6		Hardness
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	total µg/L	diss. µg/L	total µg/L	mg-$CaCO_3$/L
ICS-Il(MW36)-GW-112015		**0.8 J**		**0.3 J**					**0.5 J**		1 U			**1 J**	
ICS-Il(MW36)-GW-112015										2 U					
ICS-Il(MW36)-GW-032816					**122,000**							**1,110,000**			711
ICS-Il(MW36)-GW-032816		**0.6 J**		**0.5 J**					**1 J**		1 U			**11 J**	
ICS-Il(MW36)-GW-032816							**37**								
ICS-Il(MW36)-GW-032816	**0.3 J**		**0.1 J**					**1 J**		1 U			**11 J**		
ICS-Il(MW36)-GW-032816						**13 J**									
ICS-Bp(MW38)-GW-032516															
Trip Blank															
Trip Blank															
Trip Blank															
ICS-RB1-GW-032716					50 U							**187 J**			0
ICS-RB1-GW-032716		**0.4 J**		**0.02 J**					**0.04 J_B**		0.2 U			**11**	
ICS-RB1-GW-032716							**6 J_B**								
ICS-RB1-GW-032716	**0.3 J**		**0.04 J**					**0.03 J**		0.2 U			4 U		
ICS-RB1-GW-032716						**4 J_B**									
Trip Blank															
Trip Blank															
Trip Blank															
ICS-RB2-GW-033016					**14 J**							**464 J**			0
ICS-RB2-GW-033016		**0.6**		0.1 U					0.5 U		0.2 U			4 U	
ICS-RB2-GW-033016							20 U								
ICS-RB2-GW-033016	**0.9**		**0.01 J**					**11.3**		0.2 U			**8**		
ICS-RB2-GW-033016						20 U									

J = estimate associated with value less than the verifiable lower quantitation limit (LOQ).

J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.

U = nondetected at the associated lower reporting limit.

R = rejected or unusable result.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-DMCMWA-GW-112415															
ICS-DMCMWA-GW-112415															
ICS-DUPL2-GW-112415															
ICS-DUPL2-GW-112415															
ICS-MWA-GW-033016	**0.26**	**0.76**	**1.1**	**0.14 J_B**	1.0 U	**0.13 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.10 J**	0.20 U
ICS-MWA-GW-033016			*(mineral oil)*												
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-DUP2-GW-033016	**0.27**	**0.86**	**1.2**	**0.71 J_B**	1.0 U	**0.15 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	0.20 U
ICS-DUP2-GW-033016			*(mineral oil)*												
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DMCMWB-GW-112415															
ICS-DMCMWB-GW-112415															
ICS-MWB-GW-033016	**0.50**	0.15	0.20 U	**0.33 J_B**	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	**0.12 J**
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-032416	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.09 J**	0.20 U	**0.12 J**	0.20 U
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-032316	0.10 U	0.10 U	0.20 U	**0.10 J**	1.0 U	0.20 U	0.20 U	1.0 U	**2.1 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-DMCMWC-GW-112415															
ICS-DMCMWC-GW-112415															
ICS-MWC-GW-033016	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MW1-GW-111115															
ICS-MW1-GW-111115															
ICS-MW1-GW-032216	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**2.2 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-032416	**2.8**	**0.81**	1.2	0.50 U	1.0 U	**19**	**1.5 J_Q**	1.0 U	**18**	**0.09 J**	**0.24**	**8.6**	**27**	**9.6**	0.20 U
ICS-SAMW1-GW-032416		*(mineral spirits)*													
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-MW2-GW-111115															
ICS-MW2-GW-111115															
ICS-MW2-GW-032216	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.08 J**	0.20 U	1.0 U	**2.6 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-032916	0.24	0.15	0.20 U	**0.12 J**	1.0 U	0.20 U	**5.6 J_Q**	1.0 U	**110**	**0.18 J**	0.20 U	**0.07 J**	0.20 U	**0.49**	0.20 U
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-MW3-GW-112015															
ICS-MW3-GW-112015															
ICS-MW3-GW-032416	0.20 U	0.10 U	0.20 U	1.0 U	2.0 U	0.40 U	0.40 U	2.0 U	**7.9 J**	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-032816	0.10 U	0.10 U	0.20 U	**0.19 J**	1.0 U	0.20 U	0.20 U	1.0 U	**2.4 J**	0.20 U	0.20 U	**0.25**	0.20 U	**0.09 J**	0.20 U
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-MW4-GW-111115															
ICS-MW4-GW-111115															
ICS-MW4-GW-032916	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW5-GW-112015															
ICS-MW5-GW-112015															
ICS-MW5-GW-032916	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-MW6-GW-111915															
ICS-MW6-GW-111915															
ICS-MW6-GW-032416	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.36 J$_Q$**	1.0 U	**2.8 J**	0.20 U	0.20 U	**0.24**	**0.13 J**	**0.11 J**	0.20 U
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW7-GW-112315															
ICS-MW7-GW-112315															
ICS-DUPL1-GW-112315															
ICS-DUPL1-GW-112315															
ICS-MW7-GW-032516	0.09 J	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**8.4 J$_Q$**	1.0 U	5.0 U	**0.04 J**	0.20 U	**0.39**	**0.65**	**0.23**	0.20 U
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-DUP1-GW-032516	0.08 J	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**11 J$_Q$**	1.0 U	**2.3 J**	**0.04 J**	0.20 U	**0.42**	**0.65**	**0.24**	0.20 U
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-MW8-GW-112015															
ICS-MW8-GW-112015															
ICS-MW8-GW-032216	0.10	0.10 U	0.20 U	0.50 U	1.0 U	**0.47**	**7.1**	1.0 U	**4.3 J**	0.20 U	0.20 U	**0.14 J**	**0.41**	**0.38**	0.20 U
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-Cp(MW20)-GW-032516				0.50 U	1.0 U	0.20 U	**0.20**	1.0 U	**4.9 J**	**0.11 J**	0.20 U	**0.42**	0.20 U	**0.10 J**	0.20 U
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-032816	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.35 J$_Q$**	1.0 U	5.0 U	0.20 U	0.20 U	**0.18 J**	**0.05 J**	**0.21**	0.20 U
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Dp(MW23)-GW-032816				0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-032916	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Ap(MW25)-GW-032516				0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**2.5 J**	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U	**0.03 J**
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-032816	0.10 U	0.10 U	**0.32**	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**3.3 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.70**	**0.07 J**
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-032416	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**4.8 J**	**0.10 J**	0.20 U	**0.12 J**	0.20 U	**0.21**	0.20 U
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-032316	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-032316	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.06 J**	**0.40**	1.0 U	**2.2 J**	0.20 U	0.20 U	**0.08 J**	0.20 U	**0.25**	0.20 U
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-032316	0.10 U	0.10 U	0.20 U	**0.11 J_B**	1.0 U	0.20 U	0.20 U	1.0 U	**2.2 J**	0.20 U	0.20 U	**0.11 J**	0.20 U	**0.85**	0.20 U
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-032316	0.10 U	0.10 U	0.20 U	**0.12 J_B**	1.0 U	0.20 U	0.20 U	1.0 U	**2.6 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.25**	0.20 U
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-032216	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.07 J**	0.20 U
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-032216	0.10 U	0.10 U	0.20 U	**0.10 J_B**	1.0 U	**0.07 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.08 J**	**0.12 J**	**4.0**	0.20 U
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-032816	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**2.6 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Bp(MW38)-GW-032516				**0.21 J**	1.0 U	0.20 U	0.20 U	1.0 U	**3.2 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.04 J**
Trip Blank	0.10 U			**0.24 J**	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.10 U			**0.15 J**	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	**0.85 J_B**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-GW-032716	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**1.0 J_B**	**2.3 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
Trip Blank	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.11 J**	0.20 U	**0.13 J**	**0.20**	**0.07 J**	0.20 U
Trip Blank	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	**0.58 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank				**0.20 J**	1.0 U	0.20 U	0.20 U	**0.54 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-GW-033016	0.10 U	0.10 U	0.20 U	**0.62**	1.0 U	0.20 U	0.20 U	**0.99 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															

** *bold-typed values resemble corresponding petroleum hydrocarbon mixture [typically, weathered]*

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
J_Q = estimate; due to noncompliant ICV/CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-DMCMWA-GW-112415															
ICS-DMCMWA-GW-112415															
ICS-DUPL2-GW-112415															
ICS-DUPL2-GW-112415															
ICS-MWA-GW-033016	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**29**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-DUP2-GW-033016	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**33**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DMCMWB-GW-112415															
ICS-DMCMWB-GW-112415															
ICS-MWB-GW-033016	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.33**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-032416	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-032316	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-DMCMWC-GW-112415															
ICS-DMCMWC-GW-112415															
ICS-MWC-GW-033016	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MW1-GW-111115															
ICS-MW1-GW-111115															
ICS-MW1-GW-032216	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-032416	0.20 U	**2.0 J**	0.20 U	0.20 U	0.20 U	**0.66**	0.20 U	**0.93**	0.20 U	0.20 U	**8.6**	0.20 U	0.20 U	**2.0 J**	5.0 U
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-MW2-GW-111115															
ICS-MW2-GW-111115															
ICS-MW2-GW-032216	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-032916	0.20 U	**4.9 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.77**	0.20 U	0.20 U	**27**	**1.6 J**
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-MW3-GW-112015															
ICS-MW3-GW-112015															
ICS-MW3-GW-032416	0.40 U	10 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	10 U	10 U
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-032816	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.14 J**	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-MW4-GW-111115															
ICS-MW4-GW-111115															
ICS-MW4-GW-032916	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW5-GW-112015															
ICS-MW5-GW-112015															
ICS-MW5-GW-032916	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-MW6-GW-111915															
ICS-MW6-GW-111915															
ICS-MW6-GW-032416	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.16 J**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW7-GW-112315															
ICS-MW7-GW-112315															
ICS-DUPL1-GW-112315															
ICS-DUPL1-GW-112315															
ICS-MW7-GW-032516	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**2.3**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-DUP1-GW-032516	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**2.3**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-MW8-GW-112015															
ICS-MW8-GW-112015															
ICS-MW8-GW-032216	**0.09 J**	5.0 U	0.20 U	0.20 U	0.20 U	**0.09 J**	0.20 U	0.20 U	0.20 U	0.20 U	**68**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-Cp(MW20)-GW-032516	**0.44**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**1.8**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-032816	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Dp(MW23)-GW-032816	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**6.2**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-032916	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Ap(MW25)-GW-032516	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.25**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-032816	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.35**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis* -1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-032416	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.66**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-032316	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.03 J**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-032316	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-032316	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-032316	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-032216	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-032216	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis*-1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans*-1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-032816	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Bp(MW38)-GW-032516	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.09 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-RB1-GW-032716	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.33**	0.20 U	0.20 U	5.0 U	5.0 U
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
Trip Blank	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-RB2-GW-033016	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-DMCMWA-GW-112415																
ICS-DMCMWA-GW-112415																
ICS-DUPL2-GW-112415																
ICS-DUPL2-GW-112415																
ICS-MWA-GW-033016	0.20 U	0.20 U	**0.25**	0.20 U	**0.15 J**	0.20 U	0.20 U	0.20 U	**0.55**	**0.27**	0.20 U	0.20 U	**0.04 J**	5.0 U	0.20 U	0.20 U
ICS-MWA-GW-033016																
ICS-MWA-GW-033016																
ICS-MWA-GW-033016																
ICS-MWA-GW-033016																
ICS-DUP2-GW-033016	0.20 U	0.20 U	**0.28**	0.20 U	**0.14 J**	0.20 U	0.20 U	0.20 U	**0.56**	**0.28**	0.20 U	0.20 U	**0.04 J**	5.0 U	0.20 U	0.20 U
ICS-DUP2-GW-033016																
ICS-DUP2-GW-033016																
ICS-DUP2-GW-033016																
ICS-DUP2-GW-033016																
ICS-DMCMWB-GW-112415																
ICS-DMCMWB-GW-112415																
ICS-MWB-GW-033016	0.20 U	0.20 U	**0.58**	0.20 U	**1.6**	0.20 U	0.20 U	0.20 U	**6.1**	**1.7**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MWB-GW-033016																
ICS-MWB-GW-033016																
ICS-MWB-GW-033016																
ICS-MWB-GW-033016																
ICS-HCB1-GW-111915																
ICS-HCB1-GW-111915																
ICS-HCB1-GW-032416	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	**0.05 J**	0.20 U	**0.04 J**	5.0 U	0.20 U	0.20 U
ICS-HCB1-GW-032416																
ICS-HCB1-GW-032416																
ICS-HCB1-GW-032416																
ICS-HCB1-GW-032416																
ICS-HCB2R-GW-111115																
ICS-HCB2R-GW-111115																
ICS-HCB2R-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.05 J**	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-HCB2R-GW-032316																
ICS-HCB2R-GW-032316																
ICS-HCB2R-GW-032316																
ICS-HCB2R-GW-032316																
ICS-DMCMWC-GW-112415																
ICS-DMCMWC-GW-112415																
ICS-MWC-GW-033016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MWC-GW-033016																
ICS-MWC-GW-033016																
ICS-MWC-GW-033016																
ICS-MWC-GW-033016																
ICS-MW1-GW-111115																
ICS-MW1-GW-111115																
ICS-MW1-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MW1-GW-032216																
ICS-MW1-GW-032216																
ICS-MW1-GW-032216																
ICS-MW1-GW-032216																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-SAMW1-GW-112315																
ICS-SAMW1-GW-112315																
ICS-SAMW1-GW-032416	0.20 U	0.20 U	**480**	**2.6**	**360**	**19**	0.20 U	0.20 U	**140**	**64**	**8.4**	**5.2**	**14**	5.0 U	0.20 U	0.20 U
ICS-SAMW1-GW-032416																
ICS-SAMW1-GW-032416																
ICS-SAMW1-GW-032416																
ICS-SAMW1-GW-032416																
ICS-MW2-GW-111115																
ICS-MW2-GW-111115																
ICS-MW2-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MW2-GW-032216																
ICS-MW2-GW-032216																
ICS-MW2-GW-032216																
ICS-MW2-GW-032216																
ICS-SAMW2-GW-112015																
ICS-SAMW2-GW-112015																
ICS-SAMW2-GW-032916	0.20 U	0.20 U	**1.1**	0.20 U	**5.6**	**0.14 J**	0.20 U	0.20 U	**4.3**	**5.2**	**0.61**	0.20 U	**0.07 J**	5.0 U	0.20 U	0.20 U
ICS-SAMW2-GW-032916																
ICS-SAMW2-GW-032916																
ICS-SAMW2-GW-032916																
ICS-SAMW2-GW-032916																
ICS-MW3-GW-112015																
ICS-MW3-GW-112015																
ICS-MW3-GW-032416	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	10 U	0.40 U	0.40 U
ICS-MW3-GW-032416																
ICS-MW3-GW-032416																
ICS-MW3-GW-032416																
ICS-MW3-GW-032416																
ICS-SAMW3-GW-111915																
ICS-SAMW3-GW-111915																
ICS-SAMW3-GW-032816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-SAMW3-GW-032816																
ICS-SAMW3-GW-032816																
ICS-SAMW3-GW-032816																
ICS-SAMW3-GW-032816																
ICS-MW4-GW-111115																
ICS-MW4-GW-111115																
ICS-MW4-GW-032916	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MW4-GW-032916																
ICS-MW4-GW-032916																
ICS-MW4-GW-032916																
ICS-MW4-GW-032916																
ICS-MW5-GW-112015																
ICS-MW5-GW-112015																
ICS-MW5-GW-032916	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-MW6-GW-111915																
ICS-MW6-GW-111915																
ICS-MW6-GW-032416	0.20 U	0.20 U	**0.09 J**	**2.4**	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	**0.04 J**	**0.05 J**	**0.22**	**0.43**	5.0 U	0.20 U	0.20 U
ICS-MW6-GW-032416																
ICS-MW6-GW-032416																
ICS-MW6-GW-032416																
ICS-MW6-GW-032416																
ICS-MW7-GW-112315																
ICS-MW7-GW-112315																
ICS-DUPL1-GW-112315																
ICS-DUPL1-GW-112315																
ICS-MW7-GW-032516	0.20 U	0.20 U	**0.63**	0.20 U	**0.31**	0.20 U	0.20 U	0.20 U	**2.9**	**0.66**	**0.12 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MW7-GW-032516																
ICS-MW7-GW-032516																
ICS-MW7-GW-032516																
ICS-MW7-GW-032516																
ICS-DUP1-GW-032516	0.20 U	0.20 U	**0.55**	0.20 U	**0.24**	0.20 U	0.20 U	0.20 U	**2.7**	**0.66**	**0.12 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-DUP1-GW-032516																
ICS-DUP1-GW-032516																
ICS-DUP1-GW-032516																
ICS-DUP1-GW-032516																
ICS-MW8-GW-112015																
ICS-MW8-GW-112015																
ICS-MW8-GW-032216	0.20 U	0.20 U	**0.84**	**0.97**	**0.17 J**	0.20 U	0.20 U	0.20 U	**2.1**	**0.61**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-MW8-GW-032216																
ICS-MW8-GW-032216																
ICS-MW8-GW-032216																
ICS-MW8-GW-032216																
ICS-Cp(MW20)-GW-032516	0.20 U	0.20 U	**2.0**	0.20 U	**0.69**	**0.08 J**	0.20 U	0.20 U	**1.5**	**0.77**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Du(MW22)-GW-111815																
ICS-Du(MW22)-GW-111815																
ICS-Du(MW22)-GW-032816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Du(MW22)-GW-032816																
ICS-Du(MW22)-GW-032816																
ICS-Du(MW22)-GW-032816																
ICS-Du(MW22)-GW-032816																
ICS-Dp(MW23)-GW-032816	0.20 U	0.20 U	**42**	0.20 U	**9.3**	0.20 U	0.20 U	0.20 U	**31**	**13**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Hl(MW24)-GW-111815																
ICS-Hl(MW24)-GW-111815																
ICS-Hl(MW24)-GW-032916	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Hl(MW24)-GW-032916																
ICS-Hl(MW24)-GW-032916																
ICS-Hl(MW24)-GW-032916																
ICS-Hl(MW24)-GW-032916																
ICS-Ap(MW25)-GW-032516	**1.4**	0.20 U	**0.07 J**	0.20 U	**0.05 J**	0.20 U	**0.11 J**	**0.30**	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Ju(MW27)-GW-112015																
ICS-Ju(MW27)-GW-112015																
ICS-Ju(MW27)-GW-032816	**6.1**	0.20 U	0.20 U	**0.35**	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	**0.06 J**	**0.27**	5.0 U	0.20 U	0.20 U
ICS-Ju(MW27)-GW-032816																
ICS-Ju(MW27)-GW-032816																
ICS-Ju(MW27)-GW-032816																
ICS-Ju(MW27)-GW-032816																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L
ICS-Eu(MW28)-GW-111915																
ICS-Eu(MW28)-GW-111915																
ICS-Eu(MW28)-GW-032416	0.20 U	0.20 U	**0.47**	0.20 U	**0.59**	0.20 U	0.20 U	0.20 U	**0.35 J**	**0.18 J**	**0.20**	0.20 U	**0.07 J**	5.0 U	0.20 U	0.20 U
ICS-Eu(MW28)-GW-032416																
ICS-Eu(MW28)-GW-032416																
ICS-Eu(MW28)-GW-032416																
ICS-Eu(MW28)-GW-032416																
ICS-Fu(MW30)-GW-111115																
ICS-Fu(MW30)-GW-111115																
ICS-Fu(MW30)-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Fu(MW30)-GW-032316																
ICS-Fu(MW30)-GW-032316																
ICS-Fu(MW30)-GW-032316																
ICS-Fu(MW30)-GW-032316																
ICS-Fl(MW31)-GW-111015																
ICS-Fl(MW31)-GW-111015																
ICS-Fl(MW31)-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Fl(MW31)-GW-032316																
ICS-Fl(MW31)-GW-032316																
ICS-Fl(MW31)-GW-032316																
ICS-Fl(MW31)-GW-032316																
ICS-Gl(MW32)-GW-111015																
ICS-Gl(MW32)-GW-111015																
ICS-Gl(MW32)-GW-032316	0.20 U	0.20 U	0.20 U	**0.26**	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Gl(MW32)-GW-032316																
ICS-Gl(MW32)-GW-032316																
ICS-Gl(MW32)-GW-032316																
ICS-Gl(MW32)-GW-032316																
ICS-Gu(MW33)-GW-111015																
ICS-Gu(MW33)-GW-111015																
ICS-Gu(MW33)-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Gu(MW33)-GW-032316																
ICS-Gu(MW33)-GW-032316																
ICS-Gu(MW33)-GW-032316																
ICS-Gu(MW33)-GW-032316																
ICS-Ku(MW34)-GW-111015																
ICS-Ku(MW34)-GW-111015																
ICS-Ku(MW34)-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Ku(MW34)-GW-032216																
ICS-Ku(MW34)-GW-032216																
ICS-Ku(MW34)-GW-032216																
ICS-Ku(MW34)-GW-032216																
ICS-Kl(MW35)-GW-111015																
ICS-Kl(MW35)-GW-111015																
ICS-Kl(MW35)-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Kl(MW35)-GW-032216																
ICS-Kl(MW35)-GW-032216																
ICS-Kl(MW35)-GW-032216																
ICS-Kl(MW35)-GW-032216																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

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ICS-Il(MW36)-GW-112015																
ICS-Il(MW36)-GW-112015																
ICS-Il(MW36)-GW-032816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-Il(MW36)-GW-032816																
ICS-Il(MW36)-GW-032816																
ICS-Il(MW36)-GW-032816																
ICS-Il(MW36)-GW-032816																
ICS-Bp(MW38)-GW-032516	**1.9**	0.20 U	**0.09 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-RB1-GW-032716	0.20 U	0.20 U	**0.07 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.09 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-RB1-GW-032716																
ICS-RB1-GW-032716																
ICS-RB1-GW-032716																
ICS-RB1-GW-032716																
Trip Blank	0.20 U	0.20 U	**0.14 J**	**7.3**	0.20 U	0.20 U	0.20 U	0.20 U	**0.17 J**	**0.09 J**	**0.22**	**0.83**	**3.7**	5.0 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-RB2-GW-033016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U
ICS-RB2-GW-033016																
ICS-RB2-GW-033016																
ICS-RB2-GW-033016																
ICS-RB2-GW-033016																

J = estimate associated with value less than the verifiable lower quantitation limit (LOQ).

J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.

U = nondetected at the associated lower reporting limit.

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-DMCMWA-GW-112415															
ICS-DMCMWA-GW-112415															
ICS-DUPL2-GW-112415															
ICS-DUPL2-GW-112415															
ICS-MWA-GW-033016	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.59**	0.20 U	0.20 U	0.20 U	0.20 U	**1.7**	**0.62**	0.20 U	0.20 U	0.20 U
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-DUP2-GW-033016	0.20 U	0.20 U	0.50 U	1.0 U	**0.08 J**	**0.61**	0.20 U	0.20 U	0.20 U	0.20 U	**1.8**	**0.63**	0.20 U	0.20 U	0.20 U
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DMCMWB-GW-112415															
ICS-DMCMWB-GW-112415															
ICS-MWB-GW-033016	0.20 U	0.20 U	0.50 U	1.0 U	**4.8**	**12**	0.20 U	0.20 U	0.20 U	0.20 U	**4.1**	**2.2**	0.20 U	0.20 U	0.20 U
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-032416	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-032316	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-DMCMWC-GW-112415															
ICS-DMCMWC-GW-112415															
ICS-MWC-GW-033016	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MW1-GW-111115															
ICS-MW1-GW-111115															
ICS-MW1-GW-032216	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-032416	0.20 U	0.20 U	0.50 U	1.0 U	**7.0**	**53**	0.20 U	0.20 U	0.20 U	0.20 U	**4.9**	**8.6**	0.20 U	0.20 U	**0.03 J**
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-MW2-GW-111115															
ICS-MW2-GW-111115															
ICS-MW2-GW-032216	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-032916	0.20 U	0.20 U	0.50 U	1.0 U	**1.2**	**5.5**	0.20 U	0.20 U	0.20 U	0.20 U	**0.28**	**0.45**	0.20 U	0.20 U	0.20 U
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-MW3-GW-112015															
ICS-MW3-GW-112015															
ICS-MW3-GW-032416	0.40 U	0.40 U	1.0 U	2.0 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-032816	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-MW4-GW-111115															
ICS-MW4-GW-111115															
ICS-MW4-GW-032916	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW5-GW-112015															
ICS-MW5-GW-112015															
ICS-MW5-GW-032916	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-MW6-GW-111915															
ICS-MW6-GW-111915															
ICS-MW6-GW-032416	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW7-GW-112315															
ICS-MW7-GW-112315															
ICS-DUPL1-GW-112315															
ICS-DUPL1-GW-112315															
ICS-MW7-GW-032516	0.20 U	0.20 U	0.50 U	1.0 U	**0.48**	**0.64**	0.20 U	0.20 U	0.20 U	0.20 U	**0.45**	**0.14 J**	0.20 U	0.20 U	0.20 U
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-DUP1-GW-032516	0.20 U	0.20 U	0.50 U	1.0 U	**0.50**	**0.63**	0.20 U	0.20 U	0.20 U	0.20 U	**0.45**	**0.15 J**	0.20 U	0.20 U	0.20 U
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-MW8-GW-112015															
ICS-MW8-GW-112015															
ICS-MW8-GW-032216	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.47**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-Cp(MW20)-GW-032516	0.20 U	0.20 U	0.50 U	1.0 U	**0.15 J**	**0.59**	0.20 U	0.20 U	0.20 U	0.20 U	**0.24**	**0.14 J**	0.20 U	0.20 U	0.20 U
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-032816	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Dp(MW23)-GW-032816	0.20 U	0.20 U	0.50 U	1.0 U	**4.8**	**16**	0.20 U	0.20 U	0.20 U	0.20 U	**0.92**	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-032916	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Ap(MW25)-GW-032516	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-032816	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-032416	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.18 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.15 J**	**0.10 J**	0.20 U	0.20 U	0.20 U
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-032316	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-032316	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-032316	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-032316	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-032216	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-032216	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L	4-Chloro-toluene 106-43-4 µg/L
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-032816	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Bp(MW38)-GW-032516	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.05 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-GW-032716	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	**0.03 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-GW-033016	0.20 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															

J = estimate associated with value less than the verifiable lower quantitation limit (LOQ).

J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	*tert*-Butylbenzene 98-06-6 µg/L	*sec*-Butylbenzene 135-98-8 µg/L	4-Isopropyltoluene 99-87-6 µg/L	n-Butylbenzene 104-51-8 µg/L	1,2,4-Trichlorobenzene 120-82-1 µg/L	1,2,3-Trichlorobenzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chlorophenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methylphenol 95-48-7 µg/L	4-Methylphenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloroethane 67-72-1 µg/L
ICS-DMCMWA-GW-112415													
ICS-DMCMWA-GW-112415													
ICS-DUPL2-GW-112415													
ICS-DUPL2-GW-112415													
ICS-MWA-GW-033016	**0.07 J**	**0.41**	**0.22**	**0.37 J_Q**	0.50 U	0.50 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWA-GW-033016													
ICS-MWA-GW-033016													
ICS-MWA-GW-033016													
ICS-MWA-GW-033016													
ICS-DUP2-GW-033016	**0.07 J**	**0.42**	0.20 U	**0.36 J_Q**	0.50 U	0.50 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DUP2-GW-033016													
ICS-DUP2-GW-033016													
ICS-DUP2-GW-033016													
ICS-DUP2-GW-033016													
ICS-DMCMWB-GW-112415													
ICS-DMCMWB-GW-112415													
ICS-MWB-GW-033016	**0.10 J**	**0.80**	**1.3**	**0.74 J_Q**	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWB-GW-033016													
ICS-MWB-GW-033016													
ICS-MWB-GW-033016													
ICS-MWB-GW-033016													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-111915													
ICS-HCB1-GW-032416	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-HCB1-GW-032416													
ICS-HCB1-GW-032416													
ICS-HCB1-GW-032416													
ICS-HCB1-GW-032416													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-111115													
ICS-HCB2R-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-HCB2R-GW-032316													
ICS-HCB2R-GW-032316													
ICS-HCB2R-GW-032316													
ICS-HCB2R-GW-032316													
ICS-DMCMWC-GW-112415													
ICS-DMCMWC-GW-112415													
ICS-MWC-GW-033016	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWC-GW-033016													
ICS-MWC-GW-033016													
ICS-MWC-GW-033016													
ICS-MWC-GW-033016													
ICS-MW1-GW-111115													
ICS-MW1-GW-111115													
ICS-MW1-GW-032216	**0.06 J**	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MW1-GW-032216													
ICS-MW1-GW-032216													
ICS-MW1-GW-032216													
ICS-MW1-GW-032216													

Field I.D.	*tert*-Butyl-benzene 98-06-6 µg/L	*sec*-Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-112315													
ICS-SAMW1-GW-032416	**0.12 J**	**1.7**	**2.0**	**1.3**	**0.33 J**	0.50 U	0.2 U	0.2 U	0.2 U	**0.6**	**0.6**	0.2 U	0.2 U
ICS-SAMW1-GW-032416													
ICS-SAMW1-GW-032416													
ICS-SAMW1-GW-032416													
ICS-SAMW1-GW-032416													
ICS-MW2-GW-111115													
ICS-MW2-GW-111115													
ICS-MW2-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MW2-GW-032216													
ICS-MW2-GW-032216													
ICS-MW2-GW-032216													
ICS-MW2-GW-032216													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-112015													
ICS-SAMW2-GW-032916	0.20 U	0.20 U	**0.39**	0.20 U	0.50 U	0.50 U	**16**	0.2 U	0.2 U	**1.1**	**4.0**	0.2 U	0.2 U
ICS-SAMW2-GW-032916													
ICS-SAMW2-GW-032916													
ICS-SAMW2-GW-032916													
ICS-SAMW2-GW-032916													
ICS-MW3-GW-112015													
ICS-MW3-GW-112015													
ICS-MW3-GW-032416	0.40 U	0.40 U	0.40 U	0.40 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MW3-GW-032416													
ICS-MW3-GW-032416													
ICS-MW3-GW-032416													
ICS-MW3-GW-032416													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-111915													
ICS-SAMW3-GW-032816	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-SAMW3-GW-032816													
ICS-SAMW3-GW-032816													
ICS-SAMW3-GW-032816													
ICS-SAMW3-GW-032816													
ICS-MW4-GW-111115													
ICS-MW4-GW-111115													
ICS-MW4-GW-032916	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MW4-GW-032916													
ICS-MW4-GW-032916													
ICS-MW4-GW-032916													
ICS-MW4-GW-032916													
ICS-MW5-GW-112015													
ICS-MW5-GW-112015													
ICS-MW5-GW-032916	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MW5-GW-032916													
ICS-MW5-GW-032916													
ICS-MW5-GW-032916													
ICS-MW5-GW-032916													
ICS-MW5-GW-032916													
ICS-MW5-GW-032916													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	*tert*-Butyl-benzene 98-06-6 µg/L	*sec*-Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L
ICS-MW6-GW-111915													
ICS-MW6-GW-111915													
ICS-MW6-GW-032416	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MW6-GW-032416													
ICS-MW6-GW-032416													
ICS-MW6-GW-032416													
ICS-MW6-GW-032416													
ICS-MW7-GW-112315													
ICS-MW7-GW-112315													
ICS-DUPL1-GW-112315													
ICS-DUPL1-GW-112315													
ICS-MW7-GW-032516	0.20 U	**0.06 J**	**0.16 J**	**0.05 J**	0.50 U	0.50 U	**0.1 J**	0.2 U	0.2 U	0.2 U	**0.1 J**	0.2 U	0.2 U
ICS-MW7-GW-032516													
ICS-MW7-GW-032516													
ICS-MW7-GW-032516													
ICS-MW7-GW-032516													
ICS-DUP1-GW-032516	0.20 U	**0.07 J**	**0.16 J**	**0.05 J**	0.50 U	0.50 U	**0.1 J**	0.2 U	0.2 U	0.2 U	**0.1 J**	0.2 U	0.2 U
ICS-DUP1-GW-032516													
ICS-DUP1-GW-032516													
ICS-DUP1-GW-032516													
ICS-DUP1-GW-032516													
ICS-MW8-GW-112015													
ICS-MW8-GW-112015													
ICS-MW8-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MW8-GW-032216													
ICS-MW8-GW-032216													
ICS-MW8-GW-032216													
ICS-MW8-GW-032216													
ICS-Cp(MW20)-GW-032516	0.20 U	**0.11 J**	**0.06 J**	**0.03 J**	0.50 U	0.50 U	**0.1 J**	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U
ICS-Du(MW22)-GW-111815													
ICS-Du(MW22)-GW-111815													
ICS-Du(MW22)-GW-032816	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Du(MW22)-GW-032816													
ICS-Du(MW22)-GW-032816													
ICS-Du(MW22)-GW-032816													
ICS-Du(MW22)-GW-032816													
ICS-Dp(MW23)-GW-032816	0.20 U	**0.25**	**0.16 J**	**0.66**	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Hl(MW24)-GW-111815													
ICS-Hl(MW24)-GW-111815													
ICS-Hl(MW24)-GW-032916	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Hl(MW24)-GW-032916													
ICS-Hl(MW24)-GW-032916													
ICS-Hl(MW24)-GW-032916													
ICS-Hl(MW24)-GW-032916													
ICS-Ap(MW25)-GW-032516	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Ju(MW27)-GW-112015													
ICS-Ju(MW27)-GW-112015													
ICS-Ju(MW27)-GW-032816	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Ju(MW27)-GW-032816													
ICS-Ju(MW27)-GW-032816													
ICS-Ju(MW27)-GW-032816													
ICS-Ju(MW27)-GW-032816													

Field I.D.	*tert*-Butylbenzene 98-06-6 µg/L	*sec*-Butylbenzene 135-98-8 µg/L	4-Isopropyltoluene 99-87-6 µg/L	n-Butylbenzene 104-51-8 µg/L	1,2,4-Trichlorobenzene 120-82-1 µg/L	1,2,3-Trichlorobenzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chlorophenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methylphenol 95-48-7 µg/L	4-Methylphenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloroethane 67-72-1 µg/L
ICS-Eu(MW28)-GW-111915													
ICS-Eu(MW28)-GW-111915													
ICS-Eu(MW28)-GW-032416	0.20 U	**0.10 J**	**0.05 J**	**0.03 J**	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Eu(MW28)-GW-032416													
ICS-Eu(MW28)-GW-032416													
ICS-Eu(MW28)-GW-032416													
ICS-Eu(MW28)-GW-032416													
ICS-Fu(MW30)-GW-111115													
ICS-Fu(MW30)-GW-111115													
ICS-Fu(MW30)-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Fu(MW30)-GW-032316													
ICS-Fu(MW30)-GW-032316													
ICS-Fu(MW30)-GW-032316													
ICS-Fu(MW30)-GW-032316													
ICS-Fl(MW31)-GW-111015													
ICS-Fl(MW31)-GW-111015													
ICS-Fl(MW31)-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Fl(MW31)-GW-032316													
ICS-Fl(MW31)-GW-032316													
ICS-Fl(MW31)-GW-032316													
ICS-Fl(MW31)-GW-032316													
ICS-Gl(MW32)-GW-111015													
ICS-Gl(MW32)-GW-111015													
ICS-Gl(MW32)-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Gl(MW32)-GW-032316													
ICS-Gl(MW32)-GW-032316													
ICS-Gl(MW32)-GW-032316													
ICS-Gl(MW32)-GW-032316													
ICS-Gu(MW33)-GW-111015													
ICS-Gu(MW33)-GW-111015													
ICS-Gu(MW33)-GW-032316	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Gu(MW33)-GW-032316													
ICS-Gu(MW33)-GW-032316													
ICS-Gu(MW33)-GW-032316													
ICS-Gu(MW33)-GW-032316													
ICS-Ku(MW34)-GW-111015													
ICS-Ku(MW34)-GW-111015													
ICS-Ku(MW34)-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Ku(MW34)-GW-032216													
ICS-Ku(MW34)-GW-032216													
ICS-Ku(MW34)-GW-032216													
ICS-Ku(MW34)-GW-032216													
ICS-Kl(MW35)-GW-111015													
ICS-Kl(MW35)-GW-111015													
ICS-Kl(MW35)-GW-032216	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Kl(MW35)-GW-032216													
ICS-Kl(MW35)-GW-032216													
ICS-Kl(MW35)-GW-032216													
ICS-Kl(MW35)-GW-032216													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	*tert*-Butyl-benzene 98-06-6 µg/L	*sec*-Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L
ICS-Il(MW36)-GW-112015													
ICS-Il(MW36)-GW-112015													
ICS-Il(MW36)-GW-032816	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Il(MW36)-GW-032816													
ICS-Il(MW36)-GW-032816													
ICS-Il(MW36)-GW-032816													
ICS-Il(MW36)-GW-032816													
ICS-Bp(MW38)-GW-032516	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
ICS-RB1-GW-032716	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-RB1-GW-032716													
ICS-RB1-GW-032716													
ICS-RB1-GW-032716													
ICS-RB1-GW-032716													
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U							
Trip Blank	0.20 U	0.20 U	0.20 U	**0.03 J**	0.50 U	0.50 U							
ICS-RB2-GW-033016	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-RB2-GW-033016													
ICS-RB2-GW-033016													
ICS-RB2-GW-033016													
ICS-RB2-GW-033016													

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant ICV/CCV check.
U = nondetected at the associated lower reporting limit.

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
ICS-MWA-GW-033016	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**3.7**	1.0 U	**0.8**	1.0 U	1.0 U	0.2 U	0.2 U	**0.1 J**	**3.9**
ICS-MWA-GW-033016														
ICS-MWA-GW-033016														
ICS-MWA-GW-033016														
ICS-MWA-GW-033016														
ICS-DUP2-GW-033016	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**3.7**	1.0 U	**0.8**	1.0 U	1.0 U	0.2 U	0.2 U	0.05 U	**3.8**
ICS-DUP2-GW-033016														
ICS-DUP2-GW-033016														
ICS-DUP2-GW-033016														
ICS-DUP2-GW-033016														
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-MWB-GW-033016	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**3.5**	1.0 U	**6.4**	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**1.3**
ICS-MWB-GW-033016														
ICS-MWB-GW-033016														
ICS-MWB-GW-033016														
ICS-MWB-GW-033016														
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-HCB1-GW-032416	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.018**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-HCB1-GW-032416														
ICS-HCB1-GW-032416														
ICS-HCB1-GW-032416														
ICS-HCB1-GW-032416														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-032316	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-HCB2R-GW-032316														
ICS-HCB2R-GW-032316														
ICS-HCB2R-GW-032316														
ICS-HCB2R-GW-032316														
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-MWC-GW-033016	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-MWC-GW-033016														
ICS-MWC-GW-033016														
ICS-MWC-GW-033016														
ICS-MWC-GW-033016														
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW1-GW-032216	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-MW1-GW-032216														
ICS-MW1-GW-032216														
ICS-MW1-GW-032216														
ICS-MW1-GW-032216														

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-032416	0.2 U	0.2 U	**1.7**	2.0 U	**2.2**	**25**	1.0 U	**46**	1.0 U	1.0 U	**0.1 J**	0.2 U	**0.060**	**0.81**
ICS-SAMW1-GW-032416														
ICS-SAMW1-GW-032416														
ICS-SAMW1-GW-032416														
ICS-SAMW1-GW-032416														
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW2-GW-032216	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-MW2-GW-032216														
ICS-MW2-GW-032216														
ICS-MW2-GW-032216														
ICS-MW2-GW-032216														
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-032916	0.2 U	0.2 U	**0.71 J**	2.0 U	1.0 U	**0.10**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**0.042**
ICS-SAMW2-GW-032916														
ICS-SAMW2-GW-032916														
ICS-SAMW2-GW-032916														
ICS-SAMW2-GW-032916														
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW3-GW-032416	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-MW3-GW-032416														
ICS-MW3-GW-032416														
ICS-MW3-GW-032416														
ICS-MW3-GW-032416														
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-032816	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.1 J**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-SAMW3-GW-032816														
ICS-SAMW3-GW-032816														
ICS-SAMW3-GW-032816														
ICS-SAMW3-GW-032816														
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-MW4-GW-032916	0.2 U	0.2 U	1.0 U	**0.3 J**	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-MW4-GW-032916														
ICS-MW4-GW-032916														
ICS-MW4-GW-032916														
ICS-MW4-GW-032916														
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW5-GW-032916	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-MW6-GW-032416	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-MW6-GW-032416														
ICS-MW6-GW-032416														
ICS-MW6-GW-032416														
ICS-MW6-GW-032416														
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
ICS-MW7-GW-032516	0.2 U	0.2 U	**0.6 J**	**2.1**	1.0 U	**2.3**	1.0 U	**2.0**	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**0.3**
ICS-MW7-GW-032516														
ICS-MW7-GW-032516														
ICS-MW7-GW-032516														
ICS-MW7-GW-032516														
ICS-DUP1-GW-032516	0.2 U	0.2 U	**0.6 J**	2.0 U	1.0 U	**2.3**	1.0 U	**1.7**	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**0.3**
ICS-DUP1-GW-032516														
ICS-DUP1-GW-032516														
ICS-DUP1-GW-032516														
ICS-DUP1-GW-032516														
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-MW8-GW-032216	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.03**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**0.012 J_Q**
ICS-MW8-GW-032216														
ICS-MW8-GW-032216														
ICS-MW8-GW-032216														
ICS-MW8-GW-032216														
ICS-Cp(MW20)-GW-032516	0.2 U	0.2 U	**0.3 J**	2.0 U	1.0 U	**0.4**	1.0 U	**0.1 J**	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	**0.2 J**
ICS-Du(MW22)-GW-111815														
ICS-Du(MW22)-GW-111815														
ICS-Du(MW22)-GW-032816	0.2 U	0.2 U	1.0 U	**0.3 J**	1.0 U	**0.016**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**2.9**
ICS-Du(MW22)-GW-032816														
ICS-Du(MW22)-GW-032816														
ICS-Du(MW22)-GW-032816														
ICS-Du(MW22)-GW-032816														
ICS-Dp(MW23)-GW-032816	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Hl(MW24)-GW-111815														
ICS-Hl(MW24)-GW-111815														
ICS-Hl(MW24)-GW-032916	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-Hl(MW24)-GW-032916														
ICS-Hl(MW24)-GW-032916														
ICS-Hl(MW24)-GW-032916														
ICS-Hl(MW24)-GW-032916														
ICS-Ap(MW25)-GW-032516	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.2 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Ju(MW27)-GW-112015														
ICS-Ju(MW27)-GW-112015														
ICS-Ju(MW27)-GW-032816	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.015**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-Ju(MW27)-GW-032816														
ICS-Ju(MW27)-GW-032816														
ICS-Ju(MW27)-GW-032816														
ICS-Ju(MW27)-GW-032816														

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L
ICS-Eu(MW28)-GW-111915														
ICS-Eu(MW28)-GW-111915														
ICS-Eu(MW28)-GW-032416	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.4**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**0.12**
ICS-Eu(MW28)-GW-032416														
ICS-Eu(MW28)-GW-032416														
ICS-Eu(MW28)-GW-032416														
ICS-Eu(MW28)-GW-032416														
ICS-Fu(MW30)-GW-111115														
ICS-Fu(MW30)-GW-111115														
ICS-Fu(MW30)-GW-032316	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**0.029 J_Q**
ICS-Fu(MW30)-GW-032316														
ICS-Fu(MW30)-GW-032316														
ICS-Fu(MW30)-GW-032316														
ICS-Fu(MW30)-GW-032316														
ICS-Fl(MW31)-GW-111015														
ICS-Fl(MW31)-GW-111015														
ICS-Fl(MW31)-GW-032316	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.039**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	**0.023 J_Q**
ICS-Fl(MW31)-GW-032316														
ICS-Fl(MW31)-GW-032316														
ICS-Fl(MW31)-GW-032316														
ICS-Fl(MW31)-GW-032316														
ICS-Gl(MW32)-GW-111015														
ICS-Gl(MW32)-GW-111015														
ICS-Gl(MW32)-GW-032316	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-Gl(MW32)-GW-032316														
ICS-Gl(MW32)-GW-032316														
ICS-Gl(MW32)-GW-032316														
ICS-Gl(MW32)-GW-032316														
ICS-Gu(MW33)-GW-111015														
ICS-Gu(MW33)-GW-111015														
ICS-Gu(MW33)-GW-032316	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.040**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-Gu(MW33)-GW-032316														
ICS-Gu(MW33)-GW-032316														
ICS-Gu(MW33)-GW-032316														
ICS-Gu(MW33)-GW-032316														
ICS-Ku(MW34)-GW-111015														
ICS-Ku(MW34)-GW-111015														
ICS-Ku(MW34)-GW-032216	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-Ku(MW34)-GW-032216														
ICS-Ku(MW34)-GW-032216														
ICS-Ku(MW34)-GW-032216														
ICS-Ku(MW34)-GW-032216														
ICS-Kl(MW35)-GW-111015														
ICS-Kl(MW35)-GW-111015														
ICS-Kl(MW35)-GW-032216	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-Kl(MW35)-GW-032216														
ICS-Kl(MW35)-GW-032216														
ICS-Kl(MW35)-GW-032216														
ICS-Kl(MW35)-GW-032216														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L
ICS-Il(MW36)-GW-112015														
ICS-Il(MW36)-GW-112015														
ICS-Il(MW36)-GW-032816	0.2 U	0.2 U	1.0 U	**0.4 J**	1.0 U	**0.04 J**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-Il(MW36)-GW-032816														
ICS-Il(MW36)-GW-032816														
ICS-Il(MW36)-GW-032816														
ICS-Il(MW36)-GW-032816														
ICS-Bp(MW38)-GW-032516	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.04 J**	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U
Trip Blank														
Trip Blank														
Trip Blank														
ICS-RB1-GW-032716	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-RB1-GW-032716														
ICS-RB1-GW-032716														
ICS-RB1-GW-032716														
ICS-RB1-GW-032716														
Trip Blank														
Trip Blank														
Trip Blank														
ICS-RB2-GW-033016	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.01 U	1.0 U	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.01 U
ICS-RB2-GW-033016														
ICS-RB2-GW-033016														
ICS-RB2-GW-033016														
ICS-RB2-GW-033016														

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant ICV/CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L
ICS-DMCMWA-GW-112415														
ICS-DMCMWA-GW-112415														
ICS-DUPL2-GW-112415														
ICS-DUPL2-GW-112415														
ICS-MWA-GW-033016	**0.4**	1.0 U	1.0 U	0.2 U	0.2 U	**1.0**	0.2 U	0.025 U	**0.9**	**0.7 J_Q**	**0.4**	0.2 U	**0.4**	**0.6**
ICS-MWA-GW-033016														
ICS-MWA-GW-033016														
ICS-MWA-GW-033016														
ICS-MWA-GW-033016														
ICS-DUP2-GW-033016	**0.3**	1.0 U	1.0 U	**0.1 J**	0.2 U	**0.8**	0.2 U	0.025 U	**0.7**	**0.6 J_Q**	**0.4**	0.2 U	**0.4**	**0.5**
ICS-DUP2-GW-033016														
ICS-DUP2-GW-033016														
ICS-DUP2-GW-033016														
ICS-DUP2-GW-033016														
ICS-DMCMWB-GW-112415														
ICS-DMCMWB-GW-112415														
ICS-MWB-GW-033016	**0.10**	1.0 U	1.0 U	**0.1 J**	0.2 U	**0.6**	0.2 U	0.025 U	**0.12**	**0.7 J_Q**	**0.016**	0.2 U	**0.027**	**0.023**
ICS-MWB-GW-033016														
ICS-MWB-GW-033016														
ICS-MWB-GW-033016														
ICS-MWB-GW-033016														
ICS-HCB1-GW-111915														
ICS-HCB1-GW-111915														
ICS-HCB1-GW-032416	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.25 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-HCB1-GW-032416														
ICS-HCB1-GW-032416														
ICS-HCB1-GW-032416														
ICS-HCB1-GW-032416														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-111115														
ICS-HCB2R-GW-032316	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-HCB2R-GW-032316														
ICS-HCB2R-GW-032316														
ICS-HCB2R-GW-032316														
ICS-HCB2R-GW-032316														
ICS-DMCMWC-GW-112415														
ICS-DMCMWC-GW-112415														
ICS-MWC-GW-033016	0.01 U	1.0 U	1.0 U	**0.1 J**	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	**0.012**	**0.015**
ICS-MWC-GW-033016														
ICS-MWC-GW-033016														
ICS-MWC-GW-033016														
ICS-MWC-GW-033016														
ICS-MW1-GW-111115														
ICS-MW1-GW-111115														
ICS-MW1-GW-032216	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-MW1-GW-032216														
ICS-MW1-GW-032216														
ICS-MW1-GW-032216														
ICS-MW1-GW-032216														

Field I.D.	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-112315														
ICS-SAMW1-GW-032416	**0.30**	1.0 U	1.0 U	0.2 U	0.2 U	**0.76**	0.2 U	0.025 U	**1.5**	**1.0**	**0.11**	0.2 U	**0.16**	**0.15 J_Q**
ICS-SAMW1-GW-032416														
ICS-SAMW1-GW-032416														
ICS-SAMW1-GW-032416														
ICS-SAMW1-GW-032416														
ICS-MW2-GW-111115														
ICS-MW2-GW-111115														
ICS-MW2-GW-032216	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-MW2-GW-032216														
ICS-MW2-GW-032216														
ICS-MW2-GW-032216														
ICS-MW2-GW-032216														
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-112015														
ICS-SAMW2-GW-032916	**0.016**	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	**0.3 J**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-SAMW2-GW-032916														
ICS-SAMW2-GW-032916														
ICS-SAMW2-GW-032916														
ICS-SAMW2-GW-032916														
ICS-MW3-GW-112015														
ICS-MW3-GW-112015														
ICS-MW3-GW-032416	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-MW3-GW-032416														
ICS-MW3-GW-032416														
ICS-MW3-GW-032416														
ICS-MW3-GW-032416														
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-111915														
ICS-SAMW3-GW-032816	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-SAMW3-GW-032816														
ICS-SAMW3-GW-032816														
ICS-SAMW3-GW-032816														
ICS-SAMW3-GW-032816														
ICS-MW4-GW-111115														
ICS-MW4-GW-111115														
ICS-MW4-GW-032916	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	**0.015 J**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-MW4-GW-032916														
ICS-MW4-GW-032916														
ICS-MW4-GW-032916														
ICS-MW4-GW-032916														
ICS-MW5-GW-112015														
ICS-MW5-GW-112015														
ICS-MW5-GW-032916	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	**0.032**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														
ICS-MW5-GW-032916														

Field I.D.	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L
ICS-MW6-GW-111915														
ICS-MW6-GW-111915														
ICS-MW6-GW-032416	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-MW6-GW-032416														
ICS-MW6-GW-032416														
ICS-MW6-GW-032416														
ICS-MW6-GW-032416														
ICS-MW7-GW-112315														
ICS-MW7-GW-112315														
ICS-DUPL1-GW-112315														
ICS-DUPL1-GW-112315														
ICS-MW7-GW-032516	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	**0.028**	0.2 U	**0.4 J**	**0.024**	0.2 U	0.01 U	0.2 U	**0.014**	0.01 U
ICS-MW7-GW-032516														
ICS-MW7-GW-032516														
ICS-MW7-GW-032516														
ICS-MW7-GW-032516														
ICS-DUP1-GW-032516	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	**0.032**	0.2 U	0.025 U	**0.028**	0.2 U	0.01 U	0.2 U	**0.016**	**0.012**
ICS-DUP1-GW-032516														
ICS-DUP1-GW-032516														
ICS-DUP1-GW-032516														
ICS-DUP1-GW-032516														
ICS-MW8-GW-112015														
ICS-MW8-GW-112015														
ICS-MW8-GW-032216	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	**0.4**	0.2 U	0.01 U	**0.024 J_Q**
ICS-MW8-GW-032216														
ICS-MW8-GW-032216														
ICS-MW8-GW-032216														
ICS-MW8-GW-032216														
ICS-Cp(MW20)-GW-032516	**0.1 J**	1.0 U	1.0 U	0.2 U	0.2 U	**0.1 J**	0.2 U	1.0 U	**0.2**	**0.2**	**0.2**	**0.2**	**0.1 J**	**0.1 J**
ICS-Du(MW22)-GW-111815														
ICS-Du(MW22)-GW-111815														
ICS-Du(MW22)-GW-032816	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-Du(MW22)-GW-032816														
ICS-Du(MW22)-GW-032816														
ICS-Du(MW22)-GW-032816														
ICS-Du(MW22)-GW-032816														
ICS-Dp(MW23)-GW-032816	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Hl(MW24)-GW-111815														
ICS-Hl(MW24)-GW-111815														
ICS-Hl(MW24)-GW-032916	0.01 U	1.0 U	1.0 U	**0.1 J**	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-Hl(MW24)-GW-032916														
ICS-Hl(MW24)-GW-032916														
ICS-Hl(MW24)-GW-032916														
ICS-Hl(MW24)-GW-032916														
ICS-Ap(MW25)-GW-032516	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-Ju(MW27)-GW-112015														
ICS-Ju(MW27)-GW-112015														
ICS-Ju(MW27)-GW-032816	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	**0.014**	0.2 U	0.01 U	0.2 U	**0.016**	**0.016**
ICS-Ju(MW27)-GW-032816														
ICS-Ju(MW27)-GW-032816														
ICS-Ju(MW27)-GW-032816														
ICS-Ju(MW27)-GW-032816														

Field I.D.	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L
ICS-Eu(MW28)-GW-111915														
ICS-Eu(MW28)-GW-111915														
ICS-Eu(MW28)-GW-032416	**0.018**	1.0 U	1.0 U	**0.1 J**	0.2 U	**0.050**	0.2 U	**0.12 J_P**	**0.061**	0.2 U	**0.013**	0.2 U	**0.036**	**0.039**
ICS-Eu(MW28)-GW-032416														
ICS-Eu(MW28)-GW-032416														
ICS-Eu(MW28)-GW-032416														
ICS-Eu(MW28)-GW-032416														
ICS-Fu(MW30)-GW-111115														
ICS-Fu(MW30)-GW-111115														
ICS-Fu(MW30)-GW-032316	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	**0.038**	0.2 U	0.01 U	**0.032 J_Q**
ICS-Fu(MW30)-GW-032316														
ICS-Fu(MW30)-GW-032316														
ICS-Fu(MW30)-GW-032316														
ICS-Fu(MW30)-GW-032316														
ICS-Fl(MW31)-GW-111015														
ICS-Fl(MW31)-GW-111015														
ICS-Fl(MW31)-GW-032316	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	**0.079**	0.2 U	0.01 U	**0.034 J_Q**
ICS-Fl(MW31)-GW-032316														
ICS-Fl(MW31)-GW-032316														
ICS-Fl(MW31)-GW-032316														
ICS-Fl(MW31)-GW-032316														
ICS-Gl(MW32)-GW-111015														
ICS-Gl(MW32)-GW-111015														
ICS-Gl(MW32)-GW-032316	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-Gl(MW32)-GW-032316														
ICS-Gl(MW32)-GW-032316														
ICS-Gl(MW32)-GW-032316														
ICS-Gl(MW32)-GW-032316														
ICS-Gu(MW33)-GW-111015														
ICS-Gu(MW33)-GW-111015														
ICS-Gu(MW33)-GW-032316	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-Gu(MW33)-GW-032316														
ICS-Gu(MW33)-GW-032316														
ICS-Gu(MW33)-GW-032316														
ICS-Gu(MW33)-GW-032316														
ICS-Ku(MW34)-GW-111015														
ICS-Ku(MW34)-GW-111015														
ICS-Ku(MW34)-GW-032216	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	**0.035**	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-Ku(MW34)-GW-032216														
ICS-Ku(MW34)-GW-032216														
ICS-Ku(MW34)-GW-032216														
ICS-Ku(MW34)-GW-032216														
ICS-Kl(MW35)-GW-111015														
ICS-Kl(MW35)-GW-111015														
ICS-Kl(MW35)-GW-032216	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-Kl(MW35)-GW-032216														
ICS-Kl(MW35)-GW-032216														
ICS-Kl(MW35)-GW-032216														
ICS-Kl(MW35)-GW-032216														

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Dibenzo-furan 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L
ICS-Il(MW36)-GW-112015														
ICS-Il(MW36)-GW-112015														
ICS-Il(MW36)-GW-032816	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	**0.05 J**	0.01 U	0.2 U	0.01 U	0.01 U
ICS-Il(MW36)-GW-032816														
ICS-Il(MW36)-GW-032816														
ICS-Il(MW36)-GW-032816														
ICS-Il(MW36)-GW-032816														
ICS-Bp(MW38)-GW-032516	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trip Blank														
Trip Blank														
Trip Blank														
ICS-RB1-GW-032716	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-RB1-GW-032716														
ICS-RB1-GW-032716														
ICS-RB1-GW-032716														
ICS-RB1-GW-032716														
Trip Blank														
Trip Blank														
Trip Blank														
ICS-RB2-GW-033016	0.01 U	1.0 U	1.0 U	0.2 U	0.2 U	0.01 U	0.2 U	0.025 U	0.01 U	0.2 U	0.01 U	0.2 U	0.01 U	0.01 U
ICS-RB2-GW-033016														
ICS-RB2-GW-033016														
ICS-RB2-GW-033016														
ICS-RB2-GW-033016														

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant ICV/CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-DMCMWA-GW-112415												
ICS-DMCMWA-GW-112415												
ICS-DUPL2-GW-112415												
ICS-DUPL2-GW-112415												
ICS-MWA-GW-033016	0.2 U	**0.088**	**1.4**	**0.2**	0.2 U	**0.2 J**	**0.060**	**0.022 J**	0.05 U	**0.037 J**	10	1.6
ICS-MWA-GW-033016												
ICS-MWA-GW-033016												
ICS-MWA-GW-033016												
ICS-MWA-GW-033016												
ICS-DUP2-GW-033016	0.2 U	**0.083**	**1.2**	**0.14**	0.2 U	**0.1 J**	**0.1 J**	**0.019 J**	0.05 U	0.2 U	9.4	1.3
ICS-DUP2-GW-033016												
ICS-DUP2-GW-033016												
ICS-DUP2-GW-033016												
ICS-DUP2-GW-033016												
ICS-DMCMWB-GW-112415												
ICS-DMCMWB-GW-112415												
ICS-MWB-GW-033016	0.2 U	0.01 U	**0.2**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	5.5	0.05
ICS-MWB-GW-033016												
ICS-MWB-GW-033016												
ICS-MWB-GW-033016												
ICS-MWB-GW-033016												
ICS-HCB1-GW-111915												
ICS-HCB1-GW-111915												
ICS-HCB1-GW-032416	0.2 U	0.01 U	**0.1 J_B**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.018	0.02 U
ICS-HCB1-GW-032416												
ICS-HCB1-GW-032416												
ICS-HCB1-GW-032416												
ICS-HCB1-GW-032416												
ICS-HCB2R-GW-111115												
ICS-HCB2R-GW-111115												
ICS-HCB2R-GW-032316	0.2 U	0.01 U	**0.4 J_B**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-HCB2R-GW-032316												
ICS-HCB2R-GW-032316												
ICS-HCB2R-GW-032316												
ICS-HCB2R-GW-032316												
ICS-DMCMWC-GW-112415												
ICS-DMCMWC-GW-112415												
ICS-MWC-GW-033016	0.2 U	0.01 U	**0.3**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.027
ICS-MWC-GW-033016												
ICS-MWC-GW-033016												
ICS-MWC-GW-033016												
ICS-MWC-GW-033016												
ICS-MW1-GW-111115												
ICS-MW1-GW-111115												
ICS-MW1-GW-032216	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-MW1-GW-032216												
ICS-MW1-GW-032216												
ICS-MW1-GW-032216												
ICS-MW1-GW-032216												

Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-SAMW1-GW-112315												
ICS-SAMW1-GW-112315												
ICS-SAMW1-GW-032416	0.2 U	**0.017**	**0.6**	**0.030**	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	28	0.36
ICS-SAMW1-GW-032416												
ICS-SAMW1-GW-032416												
ICS-SAMW1-GW-032416												
ICS-SAMW1-GW-032416												
ICS-MW2-GW-111115												
ICS-MW2-GW-111115												
ICS-MW2-GW-032216	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-MW2-GW-032216												
ICS-MW2-GW-032216												
ICS-MW2-GW-032216												
ICS-MW2-GW-032216												
ICS-SAMW2-GW-112015												
ICS-SAMW2-GW-112015												
ICS-SAMW2-GW-032916	0.2 U	0.01 U	**0.1 J**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.14	0.02 U
ICS-SAMW2-GW-032916												
ICS-SAMW2-GW-032916												
ICS-SAMW2-GW-032916												
ICS-SAMW2-GW-032916												
ICS-MW3-GW-112015												
ICS-MW3-GW-112015												
ICS-MW3-GW-032416	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-MW3-GW-032416												
ICS-MW3-GW-032416												
ICS-MW3-GW-032416												
ICS-MW3-GW-032416												
ICS-SAMW3-GW-111915												
ICS-SAMW3-GW-111915												
ICS-SAMW3-GW-032816	0.2 U	0.01 U	**0.1 J**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1	0.02 U
ICS-SAMW3-GW-032816												
ICS-SAMW3-GW-032816												
ICS-SAMW3-GW-032816												
ICS-SAMW3-GW-032816												
ICS-MW4-GW-111115												
ICS-MW4-GW-111115												
ICS-MW4-GW-032916	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-MW4-GW-032916												
ICS-MW4-GW-032916												
ICS-MW4-GW-032916												
ICS-MW4-GW-032916												
ICS-MW5-GW-112015												
ICS-MW5-GW-112015												
ICS-MW5-GW-032916	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-MW5-GW-032916												
ICS-MW5-GW-032916												
ICS-MW5-GW-032916												
ICS-MW5-GW-032916												
ICS-MW5-GW-032916												
ICS-MW5-GW-032916												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-MW6-GW-111915												
ICS-MW6-GW-111915												
ICS-MW6-GW-032416	0.2 U	0.01 U	**0.3 J_B**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-MW6-GW-032416												
ICS-MW6-GW-032416												
ICS-MW6-GW-032416												
ICS-MW6-GW-032416												
ICS-MW7-GW-112315												
ICS-MW7-GW-112315												
ICS-DUPL1-GW-112315												
ICS-DUPL1-GW-112315												
ICS-MW7-GW-032516	0.2 U	0.01 U	**0.1 J**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	2.7	0.014
ICS-MW7-GW-032516												
ICS-MW7-GW-032516												
ICS-MW7-GW-032516												
ICS-MW7-GW-032516												
ICS-DUP1-GW-032516	0.2 U	0.01 U	**0.1 J**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	2.7	0.028
ICS-DUP1-GW-032516												
ICS-DUP1-GW-032516												
ICS-DUP1-GW-032516												
ICS-DUP1-GW-032516												
ICS-MW8-GW-112015												
ICS-MW8-GW-112015												
ICS-MW8-GW-032216	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.442	0.024
ICS-MW8-GW-032216												
ICS-MW8-GW-032216												
ICS-MW8-GW-032216												
ICS-MW8-GW-032216												
ICS-Cp(MW20)-GW-032516	0.2 U	**0.1 J**	**0.2 J**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	1.1	0.3
ICS-Du(MW22)-GW-111815												
ICS-Du(MW22)-GW-111815												
ICS-Du(MW22)-GW-032816	0.2 U	0.01 U	**0.2**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	2.9	0.02 U
ICS-Du(MW22)-GW-032816												
ICS-Du(MW22)-GW-032816												
ICS-Du(MW22)-GW-032816												
ICS-Du(MW22)-GW-032816												
ICS-Dp(MW23)-GW-032816	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
ICS-Hl(MW24)-GW-111815												
ICS-Hl(MW24)-GW-111815												
ICS-Hl(MW24)-GW-032916	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-Hl(MW24)-GW-032916												
ICS-Hl(MW24)-GW-032916												
ICS-Hl(MW24)-GW-032916												
ICS-Hl(MW24)-GW-032916												
ICS-Ap(MW25)-GW-032516	0.2 U	0.2 U	**0.2 J**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
ICS-Ju(MW27)-GW-112015												
ICS-Ju(MW27)-GW-112015												
ICS-Ju(MW27)-GW-032816	0.2 U	0.01 U	**0.4**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.029	0.032
ICS-Ju(MW27)-GW-032816												
ICS-Ju(MW27)-GW-032816												
ICS-Ju(MW27)-GW-032816												
ICS-Ju(MW27)-GW-032816												

Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-Eu(MW28)-GW-111915												
ICS-Eu(MW28)-GW-111915												
ICS-Eu(MW28)-GW-032416	0.2 U	0.01 U	**1.2**	**0.011**	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.64	0.086
ICS-Eu(MW28)-GW-032416												
ICS-Eu(MW28)-GW-032416												
ICS-Eu(MW28)-GW-032416												
ICS-Eu(MW28)-GW-032416												
ICS-Fu(MW30)-GW-111115												
ICS-Fu(MW30)-GW-111115												
ICS-Fu(MW30)-GW-032316	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.067	0.032
ICS-Fu(MW30)-GW-032316												
ICS-Fu(MW30)-GW-032316												
ICS-Fu(MW30)-GW-032316												
ICS-Fu(MW30)-GW-032316												
ICS-Fl(MW31)-GW-111015												
ICS-Fl(MW31)-GW-111015												
ICS-Fl(MW31)-GW-032316	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.14	0.034
ICS-Fl(MW31)-GW-032316												
ICS-Fl(MW31)-GW-032316												
ICS-Fl(MW31)-GW-032316												
ICS-Fl(MW31)-GW-032316												
ICS-Gl(MW32)-GW-111015												
ICS-Gl(MW32)-GW-111015												
ICS-Gl(MW32)-GW-032316	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-Gl(MW32)-GW-032316												
ICS-Gl(MW32)-GW-032316												
ICS-Gl(MW32)-GW-032316												
ICS-Gl(MW32)-GW-032316												
ICS-Gu(MW33)-GW-111015												
ICS-Gu(MW33)-GW-111015												
ICS-Gu(MW33)-GW-032316	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.04	0.02 U
ICS-Gu(MW33)-GW-032316												
ICS-Gu(MW33)-GW-032316												
ICS-Gu(MW33)-GW-032316												
ICS-Gu(MW33)-GW-032316												
ICS-Ku(MW34)-GW-111015												
ICS-Ku(MW34)-GW-111015												
ICS-Ku(MW34)-GW-032216	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-Ku(MW34)-GW-032216												
ICS-Ku(MW34)-GW-032216												
ICS-Ku(MW34)-GW-032216												
ICS-Ku(MW34)-GW-032216												
ICS-Kl(MW35)-GW-111015												
ICS-Kl(MW35)-GW-111015												
ICS-Kl(MW35)-GW-032216	0.2 U	0.01 U	**0.5**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-Kl(MW35)-GW-032216												
ICS-Kl(MW35)-GW-032216												
ICS-Kl(MW35)-GW-032216												
ICS-Kl(MW35)-GW-032216												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L
ICS-Il(MW36)-GW-112015												
ICS-Il(MW36)-GW-112015												
ICS-Il(MW36)-GW-032816	0.2 U	0.01 U	**0.2**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.04	0.02 U
ICS-Il(MW36)-GW-032816												
ICS-Il(MW36)-GW-032816												
ICS-Il(MW36)-GW-032816												
ICS-Il(MW36)-GW-032816												
ICS-Bp(MW38)-GW-032516	0.2 U	0.2 U	**0.2 J**	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04	0.4 U
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB1-GW-032716	0.2 U	0.01 U	**1.6**	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-RB1-GW-032716												
ICS-RB1-GW-032716												
ICS-RB1-GW-032716												
ICS-RB1-GW-032716												
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB2-GW-033016	0.2 U	0.01 U	0.2 U	0.01 U	0.2 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
ICS-RB2-GW-033016												
ICS-RB2-GW-033016												
ICS-RB2-GW-033016												
ICS-RB2-GW-033016												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-DMCMWA-GW-112415																
ICS-DMCMWA-GW-112415																
ICS-DUPL2-GW-112415																
ICS-DUPL2-GW-112415																
ICS-MWA-GW-033016	0.0058 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0062 U	**0.030**	0.0062 U	0.0062 U	**0.11 J_P**	0.0062 U	0.0062 U	0.031 U
ICS-MWA-GW-033016																
ICS-MWA-GW-033016																
ICS-MWA-GW-033016																
ICS-MWA-GW-033016																
ICS-DUP2-GW-033016	0.0044 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0031 U	0.0062 U	**0.048**	0.0062 U	0.0062 U	**0.17 J_P**	0.0062 U	0.0062 U	0.031 U
ICS-DUP2-GW-033016																
ICS-DUP2-GW-033016																
ICS-DUP2-GW-033016																
ICS-DUP2-GW-033016																
ICS-DMCMWB-GW-112415																
ICS-DMCMWB-GW-112415																
ICS-MWB-GW-033016	0.0048 U	0.0088 U	0.00062 U	0.00062 U	0.0019 U	0.00062 U	0.00062 U	0.00062 U	0.0066 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MWB-GW-033016																
ICS-MWB-GW-033016																
ICS-MWB-GW-033016																
ICS-MWB-GW-033016																
ICS-HCB1-GW-111915																
ICS-HCB1-GW-111915																
ICS-HCB1-GW-032416	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-HCB1-GW-032416																
ICS-HCB1-GW-032416																
ICS-HCB1-GW-032416																
ICS-HCB1-GW-032416																
ICS-HCB2R-GW-111115																
ICS-HCB2R-GW-111115																
ICS-HCB2R-GW-032316	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	**0.0012 J**	0.0012 U	0.0012 U	**0.0026 J_P**	0.0012 U	**0.0050**	0.0062 U
ICS-HCB2R-GW-032316																
ICS-HCB2R-GW-032316																
ICS-HCB2R-GW-032316																
ICS-HCB2R-GW-032316																
ICS-DMCMWC-GW-112415																
ICS-DMCMWC-GW-112415																
ICS-MWC-GW-033016	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0023 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MWC-GW-033016																
ICS-MWC-GW-033016																
ICS-MWC-GW-033016																
ICS-MWC-GW-033016																
ICS-MW1-GW-111115																
ICS-MW1-GW-111115																
ICS-MW1-GW-032216	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.013 U	0.0050 U	0.021 U	0.0012 U	0.0045 U	0.0049 U	0.041 U	0.0012 U	0.021 U	0.0062 U
ICS-MW1-GW-032216																
ICS-MW1-GW-032216																
ICS-MW1-GW-032216																
ICS-MW1-GW-032216																

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-SAMW1-GW-112315																
ICS-SAMW1-GW-112315																
ICS-SAMW1-GW-032416	0.0018 U	0.013 U	0.012 U	0.017 U	0.0085 U	0.00062 U	0.029 U	0.00062 U	0.0058 U	0.021 U	0.0025 U	0.024 U	0.0012 U	0.013 U	0.019 U	0.076 U
ICS-SAMW1-GW-032416																
ICS-SAMW1-GW-032416																
ICS-SAMW1-GW-032416																
ICS-SAMW1-GW-032416																
ICS-MW2-GW-111115																
ICS-MW2-GW-111115																
ICS-MW2-GW-032216	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0017 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MW2-GW-032216																
ICS-MW2-GW-032216																
ICS-MW2-GW-032216																
ICS-MW2-GW-032216																
ICS-SAMW2-GW-112015																
ICS-SAMW2-GW-112015																
ICS-SAMW2-GW-032916	0.017 U	0.0088 U	0.0086 U	0.00062 U	0.0038 U	0.0028 U	0.026 U	0.00062 U	0.0012 U	0.0037 U	0.0012 U	0.0022 U	0.0035 U	0.0012 U	0.0012 U	0.0062 U
ICS-SAMW2-GW-032916																
ICS-SAMW2-GW-032916																
ICS-SAMW2-GW-032916																
ICS-SAMW2-GW-032916																
ICS-MW3-GW-112015																
ICS-MW3-GW-112015																
ICS-MW3-GW-032416	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MW3-GW-032416																
ICS-MW3-GW-032416																
ICS-MW3-GW-032416																
ICS-MW3-GW-032416																
ICS-SAMW3-GW-111915																
ICS-SAMW3-GW-111915																
ICS-SAMW3-GW-032816	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
ICS-SAMW3-GW-032816																
ICS-SAMW3-GW-032816																
ICS-SAMW3-GW-032816																
ICS-SAMW3-GW-032816																
ICS-MW4-GW-111115																
ICS-MW4-GW-111115																
ICS-MW4-GW-032916	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MW4-GW-032916																
ICS-MW4-GW-032916																
ICS-MW4-GW-032916																
ICS-MW4-GW-032916																
ICS-MW5-GW-112015																
ICS-MW5-GW-112015																
ICS-MW5-GW-032916	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																
ICS-MW5-GW-032916																

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-MW6-GW-111915																
ICS-MW6-GW-111915																
ICS-MW6-GW-032416	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MW6-GW-032416																
ICS-MW6-GW-032416																
ICS-MW6-GW-032416																
ICS-MW6-GW-032416																
ICS-MW7-GW-112315																
ICS-MW7-GW-112315																
ICS-DUPL1-GW-112315																
ICS-DUPL1-GW-112315																
ICS-MW7-GW-032516	0.00062 U	0.00062 U	0.0066 U	0.0090 U	0.00062 U	0.00062 U	0.00062 U	0.0016 U	0.0012 U	0.0012 U	0.0012 U	0.0021 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MW7-GW-032516																
ICS-MW7-GW-032516																
ICS-MW7-GW-032516																
ICS-MW7-GW-032516																
ICS-DUP1-GW-032516	0.00062 U	0.00062 U	0.00062 U	0.0066 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0018 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-DUP1-GW-032516																
ICS-DUP1-GW-032516																
ICS-DUP1-GW-032516																
ICS-DUP1-GW-032516																
ICS-MW8-GW-112015																
ICS-MW8-GW-112015																
ICS-MW8-GW-032216	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0023 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-MW8-GW-032216																
ICS-MW8-GW-032216																
ICS-MW8-GW-032216																
ICS-MW8-GW-032216																
ICS-Cp(MW20)-GW-032516																
ICS-Du(MW22)-GW-111815																
ICS-Du(MW22)-GW-111815																
ICS-Du(MW22)-GW-032816	0.0029 U	0.00062 U	0.0022 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Du(MW22)-GW-032816																
ICS-Du(MW22)-GW-032816																
ICS-Du(MW22)-GW-032816																
ICS-Du(MW22)-GW-032816																
ICS-Dp(MW23)-GW-032816																
ICS-Hl(MW24)-GW-111815																
ICS-Hl(MW24)-GW-111815																
ICS-Hl(MW24)-GW-032916	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Hl(MW24)-GW-032916																
ICS-Hl(MW24)-GW-032916																
ICS-Hl(MW24)-GW-032916																
ICS-Hl(MW24)-GW-032916																
ICS-Ap(MW25)-GW-032516																
ICS-Ju(MW27)-GW-112015																
ICS-Ju(MW27)-GW-112015																
ICS-Ju(MW27)-GW-032816	0.00062 U	0.00062 U	0.0057 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Ju(MW27)-GW-032816																
ICS-Ju(MW27)-GW-032816																
ICS-Ju(MW27)-GW-032816																
ICS-Ju(MW27)-GW-032816																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-Eu(MW28)-GW-111915																
ICS-Eu(MW28)-GW-111915																
ICS-Eu(MW28)-GW-032416	0.00062 U	0.0021 U	0.00062 U	0.00062 U	0.0049 U	0.00062 U	0.017 U	0.00062 U	0.0012 U	0.033 U	0.0039 U	0.0012 U	0.015 U	0.0012 U	0.015 U	0.067 U
ICS-Eu(MW28)-GW-032416																
ICS-Eu(MW28)-GW-032416																
ICS-Eu(MW28)-GW-032416																
ICS-Eu(MW28)-GW-032416																
ICS-Fu(MW30)-GW-111115																
ICS-Fu(MW30)-GW-111115																
ICS-Fu(MW30)-GW-032316	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Fu(MW30)-GW-032316																
ICS-Fu(MW30)-GW-032316																
ICS-Fu(MW30)-GW-032316																
ICS-Fu(MW30)-GW-032316																
ICS-Fl(MW31)-GW-111015																
ICS-Fl(MW31)-GW-111015																
ICS-Fl(MW31)-GW-032316	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Fl(MW31)-GW-032316																
ICS-Fl(MW31)-GW-032316																
ICS-Fl(MW31)-GW-032316																
ICS-Fl(MW31)-GW-032316																
ICS-Gl(MW32)-GW-111015																
ICS-Gl(MW32)-GW-111015																
ICS-Gl(MW32)-GW-032316	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Gl(MW32)-GW-032316																
ICS-Gl(MW32)-GW-032316																
ICS-Gl(MW32)-GW-032316																
ICS-Gl(MW32)-GW-032316																
ICS-Gu(MW33)-GW-111015																
ICS-Gu(MW33)-GW-111015																
ICS-Gu(MW33)-GW-032316	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0016 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Gu(MW33)-GW-032316																
ICS-Gu(MW33)-GW-032316																
ICS-Gu(MW33)-GW-032316																
ICS-Gu(MW33)-GW-032316																
ICS-Ku(MW34)-GW-111015																
ICS-Ku(MW34)-GW-111015																
ICS-Ku(MW34)-GW-032216	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Ku(MW34)-GW-032216																
ICS-Ku(MW34)-GW-032216																
ICS-Ku(MW34)-GW-032216																
ICS-Ku(MW34)-GW-032216																
ICS-Kl(MW35)-GW-111015																
ICS-Kl(MW35)-GW-111015																
ICS-Kl(MW35)-GW-032216	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Kl(MW35)-GW-032216																
ICS-Kl(MW35)-GW-032216																
ICS-Kl(MW35)-GW-032216																
ICS-Kl(MW35)-GW-032216																

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L
ICS-Il(MW36)-GW-112015																
ICS-Il(MW36)-GW-112015																
ICS-Il(MW36)-GW-032816	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-Il(MW36)-GW-032816																
ICS-Il(MW36)-GW-032816																
ICS-Il(MW36)-GW-032816																
ICS-Il(MW36)-GW-032816																
ICS-Bp(MW38)-GW-032516																
Trip Blank																
Trip Blank																
Trip Blank																
ICS-RB1-GW-032716	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-RB1-GW-032716																
ICS-RB1-GW-032716																
ICS-RB1-GW-032716																
ICS-RB1-GW-032716																
Trip Blank																
Trip Blank																
Trip Blank																
ICS-RB2-GW-033016	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.00062 U	0.0012 U	0.0012 U	0.0012 U	0.0021 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
ICS-RB2-GW-033016																
ICS-RB2-GW-033016																
ICS-RB2-GW-033016																
ICS-RB2-GW-033016																

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081B).
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-DMCMWA-GW-112415															
ICS-DMCMWA-GW-112415															
ICS-DUPL2-GW-112415															
ICS-DUPL2-GW-112415															
ICS-MWA-GW-033016	0.0062 U	0.0062 U	0.0031 U	0.0031 U	0.32 U	0.0062 U	0.0062 U	0.010 U	0.010 U	**0.083**	**0.14**	**0.067**	0.010 U	0.010 U	0.29
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-MWA-GW-033016															
ICS-DUP2-GW-033016	0.0062 U	0.0062 U	0.0031 U	0.0031 U	0.32 U	0.0062 U	0.0062 U	0.010 U	0.010 U	**0.096**	**0.19**	**0.073**	0.010 U	0.010 U	0.36
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DUP2-GW-033016															
ICS-DMCMWB-GW-112415															
ICS-DMCMWB-GW-112415															
ICS-MWB-GW-033016	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	**0.0021**	0.0012 U	0.010 U	0.010 U	0.010 U	**0.018**	**0.008 J**	0.010 U	0.010 U	0.026
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-MWB-GW-033016															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-111915															
ICS-HCB1-GW-032416	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.054**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.054
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB1-GW-032416															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-111115															
ICS-HCB2R-GW-032316	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.020 U	0.050 U	**0.028**	0.010 U	0.010 U	0.050 U
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-HCB2R-GW-032316															
ICS-DMCMWC-GW-112415															
ICS-DMCMWC-GW-112415															
ICS-MWC-GW-033016	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.012 U	**0.016**	**0.005 J**	0.010 U	0.010 U	0.021
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MWC-GW-033016															
ICS-MW1-GW-111115															
ICS-MW1-GW-111115															
ICS-MW1-GW-032216	0.015 U	0.023 U	0.0029 U	0.0072 U	0.063 U	0.0012 U	0.0056 U	0.010 U	0.010 U	0.15 U	**0.66**	**0.85**	0.010 U	0.010 U	1.5
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															
ICS-MW1-GW-032216															

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-112315															
ICS-SAMW1-GW-032416	0.0012 U	0.0074 U	0.0082 U	0.0098 U	0.063 U	0.012 U	0.017 U	0.010 U	**1.7**	0.010 U	**0.58**	**0.25**	0.010 U	0.010 U	2.5
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-SAMW1-GW-032416															
ICS-MW2-GW-111115															
ICS-MW2-GW-111115															
ICS-MW2-GW-032216	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-MW2-GW-032216															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-112015															
ICS-SAMW2-GW-032916	0.0012 U	0.0012 U	0.0017 U	0.00062 U	0.063 U	0.019 U	0.0058 U	0.010 U	0.010 U	**0.078**	**0.089 J_P**	**0.024**	0.010 U	0.010 U	0.19
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-SAMW2-GW-032916															
ICS-MW3-GW-112015															
ICS-MW3-GW-112015															
ICS-MW3-GW-032416	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-MW3-GW-032416															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-111915															
ICS-SAMW3-GW-032816	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-SAMW3-GW-032816															
ICS-MW4-GW-111115															
ICS-MW4-GW-111115															
ICS-MW4-GW-032916	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW4-GW-032916															
ICS-MW5-GW-112015															
ICS-MW5-GW-112015															
ICS-MW5-GW-032916	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															
ICS-MW5-GW-032916															

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-MW6-GW-111915															
ICS-MW6-GW-111915															
ICS-MW6-GW-032416	0.0012 U	0.0012 U	**0.0032**	**0.0027**	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.015 U	0.025 U	0.010 U	0.010 U	0.010 U	0.025 U
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW6-GW-032416															
ICS-MW7-GW-112315															
ICS-MW7-GW-112315															
ICS-DUPL1-GW-112315															
ICS-DUPL1-GW-112315															
ICS-MW7-GW-032516	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.057**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.057
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-MW7-GW-032516															
ICS-DUP1-GW-032516	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.054**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.054
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-DUP1-GW-032516															
ICS-MW8-GW-112015															
ICS-MW8-GW-112015															
ICS-MW8-GW-032216	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0081 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-MW8-GW-032216															
ICS-Cp(MW20)-GW-032516								0.010 U	**0.041**	0.010 U	0.020 U	0.010 U	0.010 U	0.010 U	0.041
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-111815															
ICS-Du(MW22)-GW-032816	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.004 J**	0.010 U	0.010 U	0.010 U
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Du(MW22)-GW-032816															
ICS-Dp(MW23)-GW-032816								0.010 U	0.010 U	0.010 U	0.025 U	**0.008 J**	0.010 U	0.010 U	0.025 U
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-111815															
ICS-Hl(MW24)-GW-032916	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Hl(MW24)-GW-032916															
ICS-Ap(MW25)-GW-032516								0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-112015															
ICS-Ju(MW27)-GW-032816	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0054 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.006 J**	0.010 U	0.010 U	0.010 U
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															
ICS-Ju(MW27)-GW-032816															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-111915															
ICS-Eu(MW28)-GW-032416	0.012 U	0.019 U	0.0021 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	**0.19**	0.010 U	**0.12**	**0.077**	0.010 U	0.010 U	0.39
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Eu(MW28)-GW-032416															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-111115															
ICS-Fu(MW30)-GW-032316	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fu(MW30)-GW-032316															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-111015															
ICS-Fl(MW31)-GW-032316	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Fl(MW31)-GW-032316															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-111015															
ICS-Gl(MW32)-GW-032316	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gl(MW32)-GW-032316															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-111015															
ICS-Gu(MW33)-GW-032316	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Gu(MW33)-GW-032316															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-111015															
ICS-Ku(MW34)-GW-032216	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Ku(MW34)-GW-032216															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-111015															
ICS-Kl(MW35)-GW-032216	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															
ICS-Kl(MW35)-GW-032216															

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, November 2015 and March 2016

Field I.D.	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L	trans-Chlordane 5103-74-2 µg/L	cis-Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-112015															
ICS-Il(MW36)-GW-032816	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Il(MW36)-GW-032816															
ICS-Bp(MW38)-GW-032516								0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Trip Blank															
Trip Blank															
Trip Blank															
ICS-RB1-GW-032716	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
ICS-RB1-GW-032716															
Trip Blank															
Trip Blank															
Trip Blank															
ICS-RB2-GW-033016	0.0012 U	0.0012 U	0.00062 U	0.00062 U	0.063 U	0.0012 U	0.0012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															
ICS-RB2-GW-033016															

J = estimate associated with value less than the verifiable lower quantitation limit.

J_p = estimated value due to high variability exhibited between dual column responses and/or within the mixture pattern on GC/ECD (M.8082).

U = nondetected at the associated lower reporting limit.

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MEMORANDUM

TO: Matt Dalton (DOF)

FROM: Raleigh Farlow

DATE: November 19, 2016

SUBJECT: Data Evaluation/Assessment for 61 Groundwaters Collected from Monitoring Wells during September and October 2016 from the ICS / [former] NW Cooperage Site, Seattle, WA

Sixty-one well water samples were collected by Dalton, Olmsted & Fuglevand (DOF) staff during September and October, 2016 for chemical characterization. All samples were delivered in six sample delivery groups (SDG's) to Analytical Resources Inc. (ARI) of Tukwila, Washington within 51 hours of collection. Samples were received on ice at temperatures between 1.3 and 5.8 °C, and maintained at the project laboratory at 4 °C prior to analyses. Appropriate chemical preservatives were specified and used for water samples; nitric acid (HNO_3) for total and dissolved metals, and HCl for VOC's. Dissolved metals in water were determined following field filtration through 0.45 µm in-line filters prior to acid preservation. Six trip/transport blanks were submitted and analyzed for TPH-G and VOC's, and two field equipment rinsate blanks were generated and analyzed for quality control purposes.

Sample collection, handling, and analyses were conducted in accordance with the project sampling and analysis plan (SAP) (*Sampling and Analysis Plan to Complete Remedial Investigation Sampling ICS / Former NW Cooperage Site, Seattle, Washington*, prepared by DOF, February 2012), *Data Gap Memorandum, ICS/NWC Remedial Investigation Testing, Seattle, Washington*, 11/11/14, from M. Dalton (DOF) to V. Sutton (WDOE), and *Proposed Round 3 Sampling Program, ICS/NWC RI/FS*, 7/8/16, from M. Dalton (DOF) to V. Sutton (WDOE). All analyses were performed by methods presented in Table SAP-4 of the SAP.

VOC's	SW846-M.8260C	SVOC's	SW846-M.8270D
chlor. pesticides	SW846-M.8081A	SVOC's (PAH's)	SW846-M.8270 - SIM
PCB's as Aroclors	SW846-M.8082A	chlor. phenols	SW846-M.8041A
metals (excl Hg)	EPA 200.8	Hg (low-level)	SW846-M.7470A
total petroleum HC's	NWTPH-Dx & -G		

Semivolatile organic compound (SVOC's) analyses were performed by SW846 M.8270 in full-scan mode, and polycyclic aromatic hydrocarbons (PAH's) were further analyzed and reported from analyses performed in the (M.8270D) SIM [selected ion monitoring] mode to improve/lower the reporting limits. SVOC lower reporting limits were enhanced/improved over previous monitoring events by increasing extraction volumes to one liter utilizing separatory

funnel technique. PAH results were preferentially reported from the full-scan analyses (full-scan GC/MS is considered a more reliable method and exhibits minimal bias) or from the method yielding non-qualified results for detected analytes. Lower reporting limits for nondetected PAH's are reported from the SIM method in conjunction with silica gel chromatographic extract cleanup. Selected analytes, such as dichloro- and trichloro-benzenes were analyzed by both the SVOC method (M.8270D) and the volatile organic compound (VOC's) method (M.8260C). Consistent with previous quarters' reporting, results from the SVOC's analyses are considered as more representative. Naphthalene and hexachlorobutadiene (HCBD) results generated by M.8260C (VOC's method) were not reported in the attached results table due to lower reporting limits available for the SVOC-SIM (M.8270-SIM) and chlorinated pesticides (by M.8081A) methods, respectively. Method 8081A options employed for these analyses include separatory funnel extraction (M.3510C), silica gel chromatographic cleanup , and elemental sulfur (S_x) removal. Hexachlorobenzene (HCB) results were generated and reported by both M.8270D and M.8081A, while only the results generated by M.8081A are retained here due to significantly reduced reporting limits. The lower reporting limit for pentachlorophenol (PCP) was improved over M.8270D by use of M.8041 (diazomethane ether derivatives analyzed by GC/ECD [dual column] option). PCB's analyzed by M.8082A and reported as Aroclors included separatory funnel extraction (M.3510C), silica gel chromatographic cleanup, S_x removal, and strong acid (H_2SO_4) digestion. NWTPH-Dx extract preparation was supplemented with silica gel chromatography and strong acid (H_2SO_4) cleanup steps.

Metals were determined by the application of ICP-MS (U.S. EPA 200.8) UCT^{TM} (universal cell technology) operated in the kinetic energy dissociation (KED) mode tuned for optimum selectivity of arsenic, cadmium, copper, nickel and zinc. This allows increased discrimination from interferences in saline and brackish waters (samples typically require dilution to yield TDS < 1000-2000 ppm). Chromium, lead and silver are analyzed by ICP-MS in the "standard mode".

Samples were relinquished by DOF under chain-of-custody (C-O-C) procedure. All analyses for parameters reported in the attached results table were completed within the technical holding time requirements identified in the project SAP (Table SAP-2) and/or within the recommended maximum holding times recommended by the U.S. EPA. Sample holding times/conditions are determined to be acceptable or within SAP specifications.

Lower **reporting limits** were generally consistent with specified-limits presented in the SAP and to address the proposed contaminant screening levels (SL's) presented in Table 3 of the 7/8/16 Round 3 Sampling Program description. In most cases, lower reporting limits were sufficient for comparison of site contaminant levels to the proposed SL's. Several samples exhibited elevated reporting limits for copper (Cu > 3.1 µg/l) due to high dissolved solids concentrations requiring digestate dilutions during instrumental analyses. Elevated pesticide reporting limits (specifically, DDE and DDT reporting limits greater than the proposed SL of 0.001 µg/l) due to interferences associated with the presence of PCB's. Selected results (4,4'-DDD, 4,4'-DDE, beta-BHC and *trans*-Chlordane) were qualified with the "J_P" qualifier code due to variability in the dual column confirmation analyses in samples ICS-DOFMW1-W-092616, ICS-SAMW1-W-093016, ICS-MWJu(MW27)-W-092716 and ICS-MWDu(MW22)-W-100116 (>40RPD [relative percent difference] in dual-column quantitative confirmation). Multi-parametric analyte results, such as

for Aroclors 1254 and 1260 in sample ICS-DMCMWA-W-092916 (and the associated blind duplicate, ICS-DUP2-W-092916) were "J_P" qualified due to deviations in relative peak contributions compared to the standard reference mixture. Analyte concentrations reported at less than the [specified] lower reporting limit (LOQ) or the established linear concentration range for all parameter groups are qualified as estimated with the "J" qualifier code.

Method blanks (MB) were analyzed and reported for all analytical parameters and groups (analytical groups are $\leq$ 20 samples). Method blanks generally reported nondetects, with the exception of some analytes at levels between the "lower reporting limits" and method detection limits. Analytes and associated analytical groups requiring qualification of results due to possible impact from background contributions found in method blanks include:

16I0429	*bis*(2-ethylhexyl)phthalate	0.2 µg/l
16I0461	*m,p*-xylenes	0.07 µg/l
	1,2,4-trimethylbenzene	0.07 µg/l
16I0484	carbon disulfide	0.11 µg/l
	1,2,4-trimethylbenzene	0.05 µg/l
16J0027	carbon disulfide	0.05 µg/l
	chromium	0.014 & 0.016 µg/l

Sample results that are likely affected by laboratory background contributions are qualified with the "J_B" qualifier code indicating potential positive bias. Positive results (detections) reported at 2x method blank levels in associated data delivery groups, which required qualification with the "J_B" code are found in the attached results table for carbon disulfide, *m,p*-xylenes, 1,2,4-trimethylbenzene, *bis*(2-ethylhexyl)phthalate and chromium.

Two field equipment **rinsate blank**s were generated and submitted for determination of potential bias associated with field activities. Six **trip/transport blanks** were also generated and submitted for analysis and determination of potential contamination during handling of VOC's and TPH-G samples. Results of these analyses are reported in the attached table. Trip/transport blanks reported detects, generally less than the "lower reporting limit" or LOQ, for 4 VOC analytes. Trip/transport blanks results are treated similarly to method blanks – data qualification and limitations are associated with samples within each delivery group. Chloromethane and methylene chloride are additional analytes requiring data qualification with the "J_B" qualifier code due to potential positive bias from laboratory and/or field background and handling. Chloromethane and methylene chloride were not reported in laboratory method blanks, but were found in several trip/transport blanks at less than the respective LOQ's. With the exception of chloromethane and methylene chloride, no additional results required further qualification due to trip/transport blanks performance. Field equipment rinsate blanks exhibited low level metals (chromium, nickel and zinc), acetone, chloroform, toluene, ethylbenzene, *o*-xylene, 1,2,4-trimethylbenzene, other VOC analytes typically found in method and trip/transport blanks, benzoic acid (at 0.3 and 1.1 µg/l), and naphthalene (at 0.010 and 0.011 µg/l). The "J_B" qualifier code was assigned to additional results based on field equipment rinsate blanks performance.

Laboratory control sample (**LCS/LCSD**) and matrix spike (**MS/MSD**) recoveries were within acceptable ranges for most analytes. LCS/LCSD runs were performed for all analytical groups, however, MS/MSD runs were occasionally not performed. **LCS** recoveries for TPH-Dx were reported slightly low at 67, 69 and 69% for analytical groups 16I0412, 16J0009 and 16J0027, respectively (specified limit = 70-120%). *trans*-1,4-Dichloro-2-butene reported lower than specified recoveries (55-129%) at 35 and 31% for the LCS and LCSD in analytical group 16J0009. This analyte has not ever been detected in any site groundwater samples. Benzoic acid reported a slightly low LCS recovery of 26% (lower-limit specification = 30%) for analytical groups 16J0009 and 16J0027, which is comparable to the d_5-phenol surrogate compound recovery of 31%; thus, showing reasonable correlation with the appropriate surrogate compound. Similarly, phenol LCS recoveries were slightly less than the specified lower-limit specification of 30% for half of the analytical groups. Phenol recoveries for LCS's always tracked well with the associated d_5-phenol surrogate compound recoveries within a few percent. Selected chlorinated pesticide analytes (endrin aldehyde, endosulfan sulfate and endrin ketone) reported lower-than-specified LCS recoveries for analytical group 16I0461. LCS recoveries for these three analytes in this analytical group only ranged from 4.5 to 15%. The other five analytical groups exhibited within-specification recoveries for these analytes. None of these analytes have ever been detected in site groundwaters. No sample results require qualification due to LCS/LCSD recovery performance.

Matrix spike (MS/MSD) recovery performance was generally within specification for almost all analytes. Diesel fuel recoveries during TPH-Dx analyses were generally just less than the specified lower limit of 70% for most evaluations; the lowest at 65% for the MS (69% for the MSD) on sample ICS-DOFMW1-W-092616. No diesel-range organic compounds were reported above the lower reporting limit (LOQ) in the associated analytical group. TPH-G MS/MSD recovery in ICS-SAMW1-W-093016 is reported at 64/63% (specified range = 80-120%), while the associated LCS/LCDS recovery is reported at 90/90%. Consistent with previous quarters' monitoring results, phenolic and acidic analytes showed generally lower recoveries than the neutral organic compounds and occasionally less than the specified lower advisory limit. MS/MSD recovery for benzoic acid was 4.8 and 3.6% in ICS-DOFDu(M22)-W-100116 (specified lower limit = 30%). All associated samples (with analytical group 16J0027) reported benzoic acid as either nondetected or at less than the LOQ; detections of benzoic acid at levels less than the LOQ are determined to be estimates associated with the laboratory method blank and/or the field equipment rinsate blanks ("J_B" qualified). ICS-DOFMW6-W-092716 exhibited an MS/MSD phenol recovery of 28 and 32%, and a d_5-phenol (surrogate compound) recovery of 27 and 34%, indicating that the surrogate compound and phenol recoveries correlated well, as expected. A similar [good] correlation is observed for the MS/MSD recovery for phenol in sample ICS-DOFDu(MW22)-W-100116 where the phenol recovery is 15/18% and the associated d_5-phenol recovery is 16/19%. As presented below, following surrogate compounds performance, phenolic and other acidic organic compound recovery performances are determined to be acceptable. No results required qualification due to noncompliant LCS/LCSD and MS/MSD recoveries.

Surrogate compound recoveries (for organic analytes) were evaluated for VOC's, SVOC's, TPH-Dx, TPH-G, chlorinated pesticides (including hexachlorobutadiene [HCBD] and

hexachlorobenzene [HCB]), PCB's, and chlorinated phenols (PCP). Four labeled compounds were utilized for the evaluation of VOC's recovery performance (d_4-1,2-dichloroethane, d_8-toluene, 4-bromofluorobenzene and d_4-1,2-dichlorobenzene) and TPH-G (d_5-chlorobenzene, d_8-toluene, 4-bromofluorobenzene and d_4-1,2-dichlorobenzene). Tetrachloro-*meta*-xylene (TCMX) and decachlorobiphenyl (DCBP) were utilized as the surrogates for evaluation of chlorinated pesticides and PCB's analytical performance, and *o*-terphenyl was utilized as the surrogate for the TPH-Dx analyses. SVOC recoveries were evaluated with the use of four labeled phenols and four labeled neutral compounds. PAH's by GC/MS-SIM (M.8270D-SIM) utilized the surrogate compounds d_{10}-2-methylnaphthalene, d_{10}-fluoranthene and d_{14}-dibenz(a,h)anthracene. Chlorinated phenols by M.8041A utilized 2,4,6-tribromophenol as the recovery surrogate compound. All surrogate recoveries were within specification, with the following exceptions: several samples showed TCMX or DCBP (chlor. pesticides) at slightly less than the specified range (specified range = 30-160%) on one of the two columns, but not both columns (M.8081A is a dual-column confirmatory method); d_{10}-2-methylnaphthalene of 40% (specified range = 42-120%), d_{10}-fluoranthene of 44% (specified range = 57-120%) and d_{14}-dibenz(a,h)anthracene of 42% (specified range = 29-120%) for PAH (by M.8270D-SIM) in ICS-DOFMW6-W-092716; and d_5-phenol recovery (by M.8270D) exhibiting less than the specified lower limit of 30% in a large number of samples. Chlorinated pesticide surrogate compounds recovery performance are determined to be acceptable. Because two of the three surrogate compounds for low-level PAH analyses exhibited less than specified recoveries in sample ICS-DOFMW6-W-092716, qualification of positive [hits] results was performed. Naphthalene is reported at 0.018 µg/l and fluorene at 0.004 µg/l (previously J qualified due to less than the verifiable quantitation limit or LOQ) in ICS-DOFMW6-W-092716. Both values are considered estimates and are thus qualified as such; naphthalene as 0.018 µg/l "J_{RB}" due to likely low recovery and presence in the associated field rinsate blanks, and fluorene as 0.004 µg/l "J" due to a result less than the LOQ of 0.010 µg/l. No other results require qualification due to surrogate compound recovery performance.

Four phenolic surrogate compounds were employed for evaluation of phenolic and acidic analytes by M.8270D. M.8270D as applied for these analyses and specifically to this project due to specific reporting requirements is an enhanced method for improvement of lower reporting limits of all method analytes. These enhancements include increased sample extraction volumes utilizing separatory funnel technique. This method includes a default pH extraction range of 5.0 to 9.0 for extraction of acidic, neutral and basic compounds. This pH range is considered a compromise range to include all three classes of compounds. However, for this site, no basic compounds are included in the project compounds of concern. As a consequence, low-level phenolic/acidic compounds are expected to suffer some increased losses in recovery due to near-neutral pH extraction conditions. Optimum pH for extraction recovery of acidic compounds is near pH 2, as applied in M.8041A for the selective and efficient extraction of phenolic organic compounds. The laboratory applied their default advisory range for surrogate compound recoveries for SVOC analytes, including phenolic/acidic compounds, of 30-160%. As expected, and consistent with the observed recoveries of acidic compounds during LCS/LCSD and MS/MSD analyses by M.8270D, phenolic surrogate compounds exhibited some of the lowest recoveries of the eight surrogate compounds employed. All six analytical groups analyzed for SVOC's exhibited relatively low recoveries for d_5-phenol. The other three phenolic surrogate

compounds exhibited recoveries within the default advisory range of 30-160%. The d_5-phenol recoveries ranged from 16-42%; for comparison, the recommended acceptance range for phenolic surrogate compound recoveries by M.8041A (a phenolic compound method) is 10-181%. It is determined that the recoveries exhibited by phenolic/acidic surrogate compounds analyzed by M.8270D (enhanced for low-level reporting limits) are reasonable and acceptable. Method 8270D recovery performance for this monitoring event is considered acceptable. No qualification of phenolic and acidic organic compound results was performed due to surrogate compounds performance.

Initial and continuing calibration verification (ICV/CCV) checks revealed occasional [minor] noncompliant responses (ICV/CCV RPD compared to initial calibration responses > 20) for carbon tetrachloride, dibromochloromethane, *trans*-1,4-dichloro-2-butene, bromoform, acrolein, and the following analytes by M.8270D (full-scan): 2,4,6-trichlorophenol, benzoic acid, carbazole, pentachlorophenol, 2,6-dinitrotoluene, 2,4,6-tribromophenol (surrogate standard), indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene and dibenz(a,h)anthracene. Potentially affected sample results are required to be qualified with the "J_Q" code (detections are determined to be estimates based on calibration deviations). Results for carbazole (3 samples) in analytical group 16I0484 required qualification due to non-compliant ICV/CCV performances.

TPH-Dx and TPH-G analyses indicate presence of principally <u>weathered</u> gasoline in samples from ICS-DMCMWA-W-092916, ICS-DMCMWB-W-092916 and ICS-SAMW1-W-093016; mineral spirits and mineral oil (associated with PCB's) in ICS-SAMW1-W-093016; <u>weathered</u> diesel fuel and mineral oil (associated with PCB's) in ICS-DMCMWA-W-092916; and motor oil lubricant in ICS-DOFJu(MW27)-W-092716. Bold type values in the attached results table are associated with the patterns that most resemble the hydrocarbon mixtures present; as summarized above.

The analysis of chlorinated pesticides, principally the DDT-suite of compounds (i.e. DDD, DDE and DDT) by M.8081A, are susceptible to interferences or positive bias in the presence of PCB's. Elevated reporting limits for chlorinated pesticides are especially apparent in sample ICS-SAMW1-W-093016 which reports the greatest levels of PCB's, at 3.2 µg/l. Samples exhibiting levels of PCB's greater than 0.05 µg/l tend to show some level of interference and potential positive bias in the reporting of chlorinated pesticides, including the DDT-suite of constituents.

Initial inspection of results indicated the dissolved (filtered) zinc (Zn) value reported for ICS-DOFMW4-W-092616 to likely be nonrepresentative due to an elevated level at 23.5 µg/L and a nonfiltered (total) value of 4 µg/l J. Similarly, the dissolved (filtered) chromium values were significantly greater than the total (nonfiltered) values for ICS-DMCMWA-W-092916 and ICS-DMCMWB-W-092916 (dissolved *vs.* total of 14.8 *vs.* 2.7 and 22.9 *vs.* 4.8, respectively). The <u>blind duplicate</u> dissolved (filtered) and total (nonfiltered) chromium values for ICS-DMCMWA-W-092916 are comparable and reported at 2.4 µg/l J and 3.0 µg/l, respectively. A reanalysis of the initial digestates (within the recommended maximum holding time) for total chromium in samples ICS-DMCMWA-W-092916 and ICS-DMCMWB-W-092916 yielded similar results as the initial report. A re-preparation and analysis for dissolved (filtered) chromium revealed

significantly less chromium for both samples – these results are reported in the attached Results Table. Re-preparation (digestion) and analysis for total and dissolved zinc in sample ICS-DOFMW4-W-092616 showed comparable levels less than the LOQ; these results are reported in the attached Results Table. The elevated suspect values for [dissolved] chromium and zinc in these (three) samples appear to be due to inadvertent background contamination in the laboratory, or possible digestate mixups – the initial suspect results could not be replicated. The initial result for hexachlorobenzene (by M.8081A) in ICS-DOFJu(M27)-W-092716 was reported as 0.00082 µg/l U (nondetected); which was determined to be an error and is actually 0.0082 µg/l U.

Sample results reported here are determined to be in general compliance with method and SAP requirements. All reported data for ground water samples (attached) are considered usable for the intended purposes of the project.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Arsenic 7440-38-2		Cadmium 7440-43-9		Chromium 7440-47-3	
					diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-DMCMWA-W-092916	GW-mon. well	9/29/2016	nonfiltered	16I0484-01		**2.7**		0.10 U		**3.8**
ICS-DMCMWA-W-092916	GW-mon. well	9/29/2016	field-filtered, 0.45 µm	16I0484-06	**2.3**		0.10 U		**2.2**	
ICS-DUP2-W-092916	GW-DMCMWA dup.	9/29/2016	nonfiltered	16I0484-04		**2.8**		**0.04 J**		**3.0**
ICS-DUP2-W-092916	GW-DMCMWA dup.	9/29/2016	field-filtered, 0.45 µm	16I0484-09	**2.3**		0.10 U		**2.4 J**	
ICS-DMCMWB-W-092916	GW-mon. well	9/29/2016	nonfiltered	16I0484-02		**5.1**		1.0 U		**7.4**
ICS-DMCMWB-W-092916	GW-mon. well	9/29/2016	field-filtered, 0.45 µm	16I0484-07	**4.5**		0.10 U		**6.0**	
ICS-HCB1-W-093016	GW-mon. well	9/30/2016	nonfiltered	16J0009-04		**0.5 J**		2.0 U		**2.3**
ICS-HCB1-W-093016	GW-mon. well	9/30/2016	field-filtered, 0.45 µm	16J0009-11	**0.64 J**		1.0 U		**2.4**	
ICS-HCB2R-W-093016	GW-mon. well	9/30/2016	nonfiltered	16J0009-05						
ICS-DMCMWC-W-092916	GW-mon. well	9/29/2016	nonfiltered	16I0484-03		**0.7 J**		1.0 U		**0.83**
ICS-DMCMWC-W-092916	GW-mon. well	9/29/2016	field-filtered, 0.45 µm	16I0484-08	**0.58**		0.10 U		**1.7 J**	
ICS-DOFMW1-W-092616	GW-mon. well	9/26/2016	nonfiltered	16I0412-01		**1.9**		0.50 U		**4.5**
ICS-DOFMW1-W-092616	GW-mon. well	9/26/2016	field-filtered, 0.45 µm	16I0412-06	**1.7**		0.20 U		**3.8**	
ICS-SAMW1-W-093016	GW-mon. well	9/30/2016	nonfiltered	16J0009-02		**4.1**		0.10 U		**29**
ICS-SAMW1-W-093016	GW-mon. well	9/30/2016	field-filtered, 0.45 µm	16J0009-09	**4.2**		0.10 U		**25**	
ICS-DOFMW2-W-092616	GW-mon. well	9/26/2016	nonfiltered	16I0412-02		**3.6**		0.20 U		**69**
ICS-DOFMW2-W-092616	GW-mon. well	9/26/2016	field-filtered, 0.45 µm	16I0412-07	**3.8**		0.20 U		**62**	
ICS-SAMW2-W-093016	GW-mon. well	9/30/2016	nonfiltered	16J0009-03		**1.5**		**0.04 J**		**3.1**
ICS-SAMW2-W-093016	GW-mon. well	9/30/2016	field-filtered, 0.45 µm	16J0009-10	**1.3 J**		1.0 U		**2.5**	
ICS-DOFMW3-W-092616	GW-mon. well	9/26/2016	nonfiltered	16I0412-03		**5.8**		0.20 U		**84**
ICS-DOFMW3-W-092616	GW-mon. well	9/26/2016	field-filtered, 0.45 µm	16I0412-08	**5.5**		0.20 U		**74**	
ICS-SAMW3-W-092716	GW-mon. well	9/27/2016	nonfiltered	16I0429-03		**0.62**		**0.12**		**1.7**
ICS-SAMW3-W-092716	GW-mon. well	9/27/2016	field-filtered, 0.45 µm	16I0429-10	**0.41**		**0.09 J**		**3.3**	
ICS-DOFMW4-W-092616	GW-mon. well	9/26/2016	nonfiltered	16I0412-04		**2.9**		0.20 U		**64**
ICS-DOFMW4-W-092616	GW-mon. well	9/26/2016	field-filtered, 0.45 µm	16I0412-09	**3.3**		0.20 U		**59**	
ICS-DOFMW5-W-092616	GW-mon. well	9/26/2016	nonfiltered	16I0412-05		**0.68**		0.20 U		**14**
ICS-DOFMW5-W-092616	GW-mon. well	9/26/2016	field-filtered, 0.45 µm	16I0412-10	**0.60**		0.20 U		**12**	
ICS-DOFMW6-W-092716	GW-mon. well	9/27/2016	nonfiltered	16I0429-01		**0.41**		0.10 U		**7.0**
ICS-DOFMW6-W-092716	GW-mon. well	9/27/2016	field-filtered, 0.45 µm	16I0429-08	**0.45**		0.10 U		**7.8**	
ICS-DOFMW7-W-092716	GW-mon. well	9/27/2016	nonfiltered	16I0429-02		**0.98**		0.10 U		**4.6**
ICS-DOFMW7-W-092716	GW-mon. well	9/27/2016	field-filtered, 0.45 µm	16I0429-09	**0.96**		0.10 U		**4.8**	
ICS-DUP1-W-092716	GW-MW7 dup.	9/27/2016	nonfiltered	16I0429-07		**0.98**		0.10 U		**4.5**
ICS-DUP1-W-092716	GW-MW7 dup.	9/27/2016	field-filtered, 0.45 µm	16I0429-14	**0.93**		0.10 U		**4.4**	
ICS-DOFMW8-W-093016	GW-mon. well	9/30/2016	nonfiltered	16J0009-01		**9.6**		0.10 U		**2.3**
ICS-DOFMW8-W-093016	GW-mon. well	9/30/2016	field-filtered, 0.45 µm	16J0009-08	**9.5**		0.10 U		**1.4**	
ICS-MWCp(MW20)-W-100116	GW-mon. well	10/1/2016	nonfiltered	16J0027-03						
ICS-MWDu(MW22)-W-100116	GW-mon. well	10/1/2016	nonfiltered	16J0027-05		**2.1**		0.10 U		**12**
ICS-MWDu(MW22)-W-100116	GW-mon. well	10/1/2016	field-filtered, 0.45 µm	16J0027-08	**1.8**		0.10 U		**11**	

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Matrix	Collection Date	Comments	Lab I.D.	Arsenic 7440-38-2		Cadmium 7440-43-9		Chromium 7440-47-3	
					diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-MWDp(MW23)-W-100116	GW-mon. well	10/1/2016	nonfiltered	16J0027-04						
ICS-MWHl(MW24)-W-092716	GW-mon. well	9/27/2016	nonfiltered	16I0429-05		**0.19 J**		0.10 U		**1.0**
ICS-MWHl(MW24)-W-092716	GW-mon. well	9/27/2016	field-filtered, 0.45 µm	16I0429-12	**0.16 J**		0.10 U		**1.6 J**	
ICS-MWAp(MW25)-W-100116	GW-mon. well	10/1/2016	nonfiltered	16J0027-01						
ICS-MWJu(MW27)-W-092716	GW-mon. well	9/27/2016	nonfiltered	16I0429-06		**2.5**		**0.12**		**3.4**
ICS-MWJu(MW27)-W-092716	GW-mon. well	9/27/2016	field-filtered, 0.45 µm	16I0429-13	**1.2**		0.10 U		**1.6 J**	
ICS-MWEu(MW28)-W-093016	GW-mon. well	9/30/2016	nonfiltered	16J0009-06		**2.4**		1.0 U		**2.1**
ICS-MWEu(MW28)-W-093016	GW-mon. well	9/30/2016	field-filtered, 0.45 µm	16J0009-12	**2.8**		1.0 U		**2.3**	
ICS-MWFu(MW30)-W-092816	GW-mon. well	9/28/2016	nonfiltered	16I0461-01		**0.36**		**0.04 J**		**0.37 J_B**
ICS-MWFu(MW30)-W-092816	GW-mon. well	9/28/2016	field-filtered, 0.45 µm	16I0461-08	**0.36**		**0.06 J**		**0.35 J_B**	
ICS-MWFl(MW31)-W-092816	GW-mon. well	9/28/2016	nonfiltered	16I0461-02		**0.75**		0.10 U		**12**
ICS-MWFl(MW31)-W-092816	GW-mon. well	9/28/2016	field-filtered, 0.45 µm	16I0461-09	**0.75**		0.20 U		**14**	
ICS-MWGl(MW32)-W-092816	GW-mon. well	9/28/2016	nonfiltered	16I0461-04		**0.6 J**		1.0 U		**0.90**
ICS-MWGl(MW32)-W-092816	GW-mon. well	9/28/2016	field-filtered, 0.45 µm	16I0461-11	**1.0 J**		1.0 U		**2.5 J**	
ICS-MWGu(MW33)-W-092816	GW-mon. well	9/28/2016	nonfiltered	16I0461-03		**0.55**		0.10 U		**0.80**
ICS-MWGu(MW33)-W-092816	GW-mon. well	9/28/2016	field-filtered, 0.45 µm	16I0461-10	**0.71**		0.10 U		**0.85**	
ICS-MWKu(MW34)-W-092816	GW-mon. well	9/28/2016	nonfiltered	16I0461-05		**1.2**		**0.04 J**		**1.4**
ICS-MWKu(MW34)-W-092816	GW-mon. well	9/28/2016	field-filtered, 0.45 µm	16I0461-12	**1.1**		0.20 U		**1.5**	
ICS-MWKl(MW35)-W-092816	GW-mon. well	9/28/2016	nonfiltered	16I0461-06		**0.30**		1.0 U		**1.3**
ICS-MWKl(MW35)-W-092816	GW-mon. well	9/28/2016	field-filtered, 0.45 µm	16I0461-13	**0.6 J**		1.0 U		**3.6 J**	
ICS-MWIl(MW36)-W-092716	GW-mon. well	9/27/2016	nonfiltered	16I0429-04		**0.31**		0.10 U		**1.9**
ICS-MWIl(MW36)-W-092716	GW-mon. well	9/27/2016	field-filtered, 0.45 µm	16I0429-11	**0.33**		0.10 U		**3.2**	
ICS-MWBp(MW38)-W-100116	GW-mon. well	10/1/2016	nonfiltered	16J0027-02						
Trip Blank	blank water	9/26/2016	trip/transport blank	16I0412-11						
Trip Blank	blank water	9/27/2016	trip/transport blank	16I0429-15						
ICS-RB1-W-092816	field equip rinsate	9/28/2016	nonfiltered	16I0461-07		0.20 U		0.10 U		**0.14 J**
ICS-RB1-W-092816	field equip rinsate	9/28/2016	field-filtered, 0.45 µm	16I0461-14	0.20 U		0.10 U		0.5 U	
Trip Blank	blank water	9/28/2016	trip/transport blank	16I0461-15						
Trip Blank	blank water	9/29/2016	trip/transport blank	16I0484-05						
Trip Blank	blank water	9/30/2016	trip/transport blank	16J0009-07						
Trip Blank	blank water	10/1/2016	trip/transport blank	16J0027-07						
ICS-RB2-W-100116	field equip rinsate	10/1/2016	nonfiltered	16J0027-06		0.20 U		0.10 U		**0.22 J_B**
ICS-RB2-W-100116	field equip rinsate	10/1/2016	field-filtered, 0.45 µm	16J0027-09	0.20 U		0.10 U		**0.21 J_B**	

J = estimate associated with value less than the verifiable lower quantitation limit (LOQ).
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Copper 7440-50-8		Lead 7439-92-1		Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Zinc 7440-66-6	
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-DMCMWA-W-092916		**1.6**		**11**		20 U		**1.2 J_B**		0.20 U		**10**
ICS-DMCMWA-W-092916	0.5 U		0.10 U		20 U		**0.28 J**		0.20 U		**1 J_B**	
ICS-DUP2-W-092916		**1.7**		**13**		20 U		**1.2 J_B**		0.20 U		**12**
ICS-DUP2-W-092916	0.5 U		0.10 U		20 U		**0.25 J**		0.20 U		**1 J_B**	
ICS-DMCMWB-W-092916		5 U		**12**		**23**		**1.4 J_B**		2.0 U		**10 J**
ICS-DMCMWB-W-092916	0.5 U		**0.54**		20 U		**0.72**		**0.02 J**		**1 J_B**	
ICS-HCB1-W-093016		10 U		2 U		20 U		**2.4 J**		4.0 U		80 U
ICS-HCB1-W-093016	5 U		1 U		20 U		**0.5 J**		2.0 U		40 U	
ICS-HCB2R-W-093016												
ICS-DMCMWC-W-092916		5 U		1.0 U		20 U		5.0 U		2.0 U		40 U
ICS-DMCMWC-W-092916	0.5 U		0.10 U		20 U		**0.21 J**		0.20 U		**1 J_B**	
ICS-DOFMW1-W-092616		**2.2 J**		**0.62**		20 U		**8.6**		2.0 U		20 U
ICS-DOFMW1-W-092616	1 U		0.20 U		20 U		**7.6**		0.40 U		**2 J_B**	
ICS-SAMW1-W-093016		**2.7**		**2.4**		20 U		**3.4**		**0.28**		**8.6**
ICS-SAMW1-W-093016	**1.5**		**1.6**		20 U		**3.2**		**0.32**		**6.9**	
ICS-DOFMW2-W-092616		**16**		**1.0**		20 U		**1.5 J_B**		**0.14 J**		**4 J**
ICS-DOFMW2-W-092616	**15**		**1.1**		20 U		**1.5**		**0.14 J**		**4 J**	
ICS-SAMW2-W-093016		**0.54**		**0.96**		20 U		**1.8**		2.0 U		**3 J**
ICS-SAMW2-W-093016	5 U		1 U		20 U		**1.5 J**		2.0 U		40 U	
ICS-DOFMW3-W-092616		**11**		**0.88**		20 U		**2.0 J**		**0.13 J**		**3 J**
ICS-DOFMW3-W-092616	**11**		**0.94**		20 U		**1.7**		**0.14 J**		**5 J**	
ICS-SAMW3-W-092716		**7.4**		**0.12**		**36**		**2.6**		**0.03 J**		**6.4**
ICS-SAMW3-W-092716	**9.2**		0.50 U		20 U		**2.6**		1.0 U		**5.9**	
ICS-DOFMW4-W-092616		**18**		**1.1**		20 U		**1.2 J_B**		**0.13 J**		**5 J**
ICS-DOFMW4-W-092616	**19**		**1.2**		20 U		**1.4**		**0.12 J**		**5 J**	
ICS-DOFMW5-W-092616		**4.1**		**0.29**		20 U		**0.4 J_B**		1.0 U		8 U
ICS-DOFMW5-W-092616	**4.1**		**0.30**		20 U		**0.5 J**		**0.4 U**		**3 J**	
ICS-DOFMW6-W-092716		**1.7**		**0.17**		**65**		**1.0 J_B**		**0.02 J**		**31**
ICS-DOFMW6-W-092716	**1.7**		**0.15**		20 U		**1.0**		**0.02 J**		**29**	
ICS-DOFMW7-W-092716		0.50 U		**0.15**		20 U		**1.4 J_B**		0.20 U		**1 J_B**
ICS-DOFMW7-W-092716	5 U		0.10 U		20 U		**1.6 J**		0.20 U		4 U	
ICS-DUP1-W-092716		**0.91**		**0.20**		20 U		**2.9**		0.20 U		**1 J_B**
ICS-DUP1-W-092716	0.50 U		0.10 U		20 U		**1.4**		0.20 U		**1 J_B**	
ICS-DOFMW8-W-093016		**1.1**		**3.1**		20 U		**5.1**		0.20 U		**3 J**
ICS-DOFMW8-W-093016	0.5 U		0.10 U		20 U		**4.7**		0.20 U		**1 J_B**	
ICS-MWCp(MW20)-W-100116												
ICS-MWDu(MW22)-W-100116		**4.7**		**0.62**		20 U		**1.27 J_B**		**0.02 J**		**5.2**
ICS-MWDu(MW22)-W-100116	**4.1**		**0.29**		20 U		**0.74**		**0.02 J**		**1 J_B**	

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Copper 7440-50-8		Lead 7439-92-1		Mercury 7439-97-6		Nickel 7440-02-0		Silver 7440-22-4		Zinc 7440-66-6	
	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
ICS-MWDp(MW23)-W-100116												
ICS-MWHl(MW24)-W-092716		**2.4**		**0.09 J**		20 U		**0.23 J_B**		0.20 U		**1 J_B**
ICS-MWHl(MW24)-W-092716	2.5 U		0.50 U		20 U		2.5 U		1.0 U		**1 J_B**	
ICS-MWAp(MW25)-W-100116												
ICS-MWJu(MW27)-W-092716		**5.0**		**9.8**		**59**		**2.9**		**0.02 J**		**48**
ICS-MWJu(MW27)-W-092716	2.5 U		0.50 U		20 U		**1.0 J**		1.0 U		**1 J_B**	
ICS-MWEu(MW28)-W-093016		5 U		1 U		20 U		**1.4 J_B**		2.0 U		40 U
ICS-MWEu(MW28)-W-093016	5 U		1 U		20 U		**0.8 J**		2.0 U		40 U	
ICS-MWFu(MW30)-W-092816		**3.1**		0.10 U		20 U		**3.3**		0.20 U		**2 J_B**
ICS-MWFu(MW30)-W-092816	**3.3**		0.10 U		20 U		**3.4**		0.20 U		**2 J_B**	
ICS-MWFl(MW31)-W-092816		**0.75**		**0.08 J**		**49**		**1.4 J_B**		**0.04 J**		**1 J_B**
ICS-MWFl(MW31)-W-092816	1.0 U		0.20 U		20 U		**0.82 J**		**0.05 J**		8 U	
ICS-MWGl(MW32)-W-092816		10 U		1.0 U		20 U		10 U		2.0 U		40 U
ICS-MWGl(MW32)-W-092816	5 U		1.0 U		20 U		5.0 U		2.0 U		40 U	
ICS-MWGu(MW33)-W-092816		**1.5**		**0.14**		20 U		**1.1 J_B**		0.20 U		**1 J_B**
ICS-MWGu(MW33)-W-092816	10 U		0.10 U		20 U		10 U		0.20 U		**1 J_B**	
ICS-MWKu(MW34)-W-092816		**2.0**		**0.07 J**		20 U		**3.9**		0.40 U		**3 J**
ICS-MWKu(MW34)-W-092816	**1.5**		0.20 U		20 U		**2.8**		0.40 U		**5**	
ICS-MWKl(MW35)-W-092816		**1.2**		1.0 U		20 U		**1.3 J_B**		2.0 U		**1 J_B**
ICS-MWKl(MW35)-W-092816	5 U		1.0 U		20 U		**0.9 J**		2.0 U		**17 J**	
ICS-MWIl(MW36)-W-092716		0.50 U		**0.07 J**		**140**		**0.56 J_B**		0.20 U		**1 J_B**
ICS-MWIl(MW36)-W-092716	2.5 U		0.50 U		20 U		**0.6 J**		1.0 U		**1 J_B**	
ICS-MWBp(MW38)-W-100116												
Trip Blank												
Trip Blank												
ICS-RB1-W-092816		0.5 U		0.10 U		20 U		**0.20 J**		0.20 U		**1 J**
ICS-RB1-W-092816	0.5 U		0.10 U		20 U		0.50 U		0.20 U		**1 J**	
Trip Blank												
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB2-W-100116		0.5 U		0.10 U		20 U		**0.75**		0.20 U		**1 J**
ICS-RB2-W-100116	0.5 U		0.10 U		20 U		0.50 U		0.20 U		4 U	

J = estimate associated with value less than the verifiable lower quantitation limit (LOQ).
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L
ICS-DMCMWA-W-092916	**0.50**	**1.2**	**2.1**	0.50 U	1.0 U	0.20 U	0.20 U	**0.50 J_B**	5.0 U	**0.08 J_B**	0.20 U	0.20 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	**0.49**	**0.23**	**0.26**	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.06 J_B**	0.20 U	0.20 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	**0.44**	0.20	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.52 J_B**	5.0 U	**0.11 J_B**	0.20 U	0.20 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.05 J_B**	0.20 U	**0.08 J**
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	**3.6 J_B**	**2.4 J_B**	**0.10 J_B**	0.20 U	0.20 U
ICS-DMCMWC-W-092916	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.63 J_B**	5.0 U	**0.05 J_B**	0.20 U	0.20 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**0.73 J_B**	**3.3 J_B**	0.20 U	0.20 U	**0.15 J**
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	**2.5**	**0.69**	**0.94**	0.50 U	1.0 U	**6.2**	**2.9**	**0.59 J_B**	**5.5 J_B**	**0.17 J**	**0.07 J**	**11**
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.10 U	0.10 U	0.20 U	**0.22 J_B**	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.14 J_B**	0.20 U	**0.10 J**
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.19 J**	0.20 U	1.0 U	**8.5**	0.20 U	0.20 U	0.20 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.14 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.10 U	0.10 U	0.20 U	**0.11 J**	1.0 U	0.20 U	0.20 U	**0.52 J_B**	5.0 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.26**	**0.39**	1.0 U	5.0 U	0.20 U	0.20 U	**0.28**
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.48**	**3.0**	**0.72 J_B**	5.0 U	**0.06 J_B**	0.20 U	**0.64**
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.52**	**3.2**	**0.50 J_B**	5.0 U	0.20 U	0.20 U	**0.67**
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.12	0.10 U	0.20 U	0.50 U	1.0 U	**1.0**	**3.8**	**0.72 J_B**	**2.8 J_B**	**0.07 J_B**	0.20 U	**0.12 J**
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116				0.50 U	1.0 U	**0.07 J**	0.20 U	1.0 U	**2.3 J_B**	**0.04 J_B**	0.20 U	**0.30**
ICS-MWDu(MW22)-W-100116	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.04 J_B**	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Total Petroleum Hydrocarbons ** Gasoline-range mg/L	Diesel-range mg/L	Lube-range mg/L	Chloro-methane 74-87-3 µg/L	Bromo-methane 74-83-9 µg/L	Vinyl chloride 75-01-4 µg/L	Chloro-ethane 75-00-3 µg/L	Methylene chloride 75-09-2 µg/L	Acetone 67-64-1 µg/L	Carbon disulfide 75-15-0 µg/L	1,1-Dichloro-ethene 75-35-4 µg/L	1,1-Dichloro-ethane 75-34-3 µg/L
ICS-MWDp(MW23)-W-100116				0.50 U	1.0 U	**0.20**	0.20 U	1.0 U	**5.3 J_B**	**0.07 J_B**	0.20 U	**0.15 J**
ICS-MWHl(MW24)-W-092716	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.07 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116				0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.25**
ICS-MWJu(MW27)-W-092716	0.10 U	0.11	**0.63**	0.50 U	1.0 U	**0.09 J**	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	**0.13 J**
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.08 J_B**	0.20 U	**0.11 J**
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.10 U	0.10 U	0.20 U	**0.14 J**	1.0 U	**0.06 J**	**0.17 J**	**0.49 J_B**	5.0 U	0.20 U	0.20 U	**0.08 J**
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.10 U	0.10 U	0.20 U	**0.11 J**	1.0 U	0.20 U	0.20 U	**0.53 J_B**	5.0 U	0.20 U	0.20 U	**0.10 J**
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.10 U	0.10 U	0.20 U	**0.12 J**	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.08 J_B**	0.20 U	0.20 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	**0.07 J**	0.20 U	1.0 U	5.0 U	**0.05 J_B**	0.20 U	**0.07 J**
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.10 U	0.10 U	0.20 U	**0.10 J**	1.0 U	**0.12 J**	**0.24**	**0.56 J_B**	5.0 U	0.20 U	0.20 U	**0.20**
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116				0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	**2.4 J_B**	0.20 U	0.20 U	0.20 U
Trip Blank	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	**0.65 J_B**	5.0 U	**0.13 J**	0.20 U	0.20 U
ICS-RB1-W-092816	0.10 U	0.10 U	0.20 U	**0.14 J**	1.0 U	0.20 U	0.20 U	**4.0**	**3.2 J**	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816												
Trip Blank	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	**0.51 J_B**	5.0 U	**0.06 J**	0.20 U	0.20 U
Trip Blank	0.10 U			0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.10 J_B**	0.20 U	0.20 U
Trip Blank				**0.11 J**	1.0 U	0.20 U	0.20 U	**0.50 J_B**	5.0 U	**0.07 J**	0.20 U	0.20 U
Trip Blank				0.50 U	1.0 U	0.20 U	0.20 U	1.0 U	5.0 U	**0.17 J**	0.20 U	0.20 U
ICS-RB2-W-100116	0.10 U	0.10 U	0.20 U	0.50 U	1.0 U	0.20 U	0.20 U	**3.6**	**3.4 J**	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116												

** *bold-typed values resemble corresponding petroleum hydrocarbon mixture [typically, weathered]*

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L	1,2-Dichloroethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Trichloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromodichloromethane 75-27-4 µg/L	1,2-Dichloropropane 78-87-5 µg/L	*cis*-1,3-Dichloropropene 10061-01-5 µg/L	Trichloroethene 79-01-6 µg/L	Dibromochloromethane 124-48-1 µg/L
ICS-DMCMWA-W-092916	0.20 U	**0.11 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.20 U	**0.09 J**	0.32 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.20 U	**0.10 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.20 U	**0.15 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-W-092916	0.20 U	0.20 U	**0.14 J**	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	**4.4**	**2.8**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.77**	0.20 U	**0.26**	0.20 U
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.20 U	**0.17 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.06 J**	0.20 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.20 U	**0.10 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	**0.27**	**0.12 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	**0.45**	**0.31**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.07 J**	0.20 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	**0.47**	**0.33**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.08 J**	0.20 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	**0.39**	**0.43**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116	0.20 U	**0.08 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116	**0.08 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	*trans*-1,2-Dichloroethene 156-60-5 µg/L	*cis*-1,2-Dichloroethene 156-59-2 µg/L	Chloroform 67-66-3 µg/L	1,2-Dichloro-ethane 107-06-2 µg/L	2-Butanone 78-93-3 µg/L	1,1,1-Tri-chloroethane 71-55-6 µg/L	Carbon tetrachloride 56-23-5 µg/L	Bromo-dichloromethane 75-27-4 µg/L	1,2-Dichloro-propane 78-87-5 µg/L	*cis*-1,3-Dichloro-propene 10061-01-5 µg/L	Trichloro-ethene 79-01-6 µg/L	Dibromo-chloromethane 124-48-1 µg/L
ICS-MWDp(MW23)-W-100116	**0.32**	**1.4**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**2.3**	0.20 U
ICS-MWHl(MW24)-W-092716	0.20 U	**0.09 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116	0.20 U	**0.08 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWJu(MW27)-W-092716	0.20 U	**0.23**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.20 U	**0.20 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.20 U	**0.26**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.20 U	**0.85**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.20 U	**0.42**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.20 U	**0.15 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	**0.08 J**	**3.4**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.20 U	**0.26**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116	0.20 U	0.20 U	**0.07 J_B**	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816	0.20 U	0.20 U	**0.05 J**	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816												
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116	0.20 U	0.20 U	**0.04 J**	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L
ICS-DMCMWA-W-092916	0.20 U	**36**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.32 J_B**	0.20 U	0.20 U	0.20 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.20 U	**35**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.31 J_B**	0.20 U	**0.12 J**	0.20 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.20 U	**0.25**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.36 J_B**	0.20 U	**0.85**	0.20 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.07 J_B**	0.20 U	**0.10 J**	0.20 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.14 J**	0.20 U	**0.38 J_B**	0.20 U	**0.09 J**	0.20 U
ICS-DMCMWC-W-092916	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	0.20 U	**12**	0.20 U	0.20 U	**1.3 J**	5.0 U	0.20 U	0.20 U	**290**	**2.2**	**420**	**8.7**
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.20 U	**0.44**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.35 J_B**	**0.05 J**	**0.93**	0.20 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**0.06 J**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.20 U	**0.59**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.32 J_B**	**7.0**	**0.17 J**	0.20 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.20 U	**1.9**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.35 J_B**	**0.07 J**	**0.14 J**	0.20 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.20 U	**2.0**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.33 J_B**	**0.06 J**	**0.17 J**	0.20 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.20 U	**60**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.87**	**0.84**	**0.15 J**	0.20 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116	0.20 U	**1.6**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**1.2**	0.20 U	**0.16 J**	0.20 U
ICS-MWDu(MW22)-W-100116	0.20 U	**0.22**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.20 J_B**	**4.5**	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	1,1,2-Trichloro-ethane 79-00-5 µg/L	Benzene 71-43-2 µg/L	*trans* -1,3-Dichloropropene 10061-02-6 µg/L	Bromo-form 75-25-2 µg/L	4-Methyl-2-pentanone 108-10-1 µg/L	2-Hexanone 591-78-6 µg/L	Tetrachloro-ethene 127-18-4 µg/L	1,1,2,2-Tetra-chloroethane 79-34-5 µg/L	Toluene 108-88-3 µg/L	Chloro-benzene 108-90-7 µg/L	Ethyl-benzene 100-41-4 µg/L	Styrene 100-42-5 µg/L
ICS-MWDp(MW23)-W-100116	0.20 U	**0.82**	0.20 U	0.20 U	5.0 U	5.0 U	**9.0**	0.20 U	**0.18 J_B**	**9.4**	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**1.2**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWJu(MW27)-W-092716	0.20 U	**0.05 J**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.04 J_B**	0.20 U	**0.05 J**	0.20 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.20 U	**0.57**	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.25 J_B**	0.20 U	**0.71**	0.20 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	**0.22**	0.20 U	0.20 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	**1.6**	0.20 U	**0.05 J_B**	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.30**	0.20 U	**0.04 J**	0.20 U
ICS-RB1-W-092816												
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	5.0 U	0.20 U	0.20 U	**0.24**	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.

J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.

U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L
ICS-DMCMWA-W-092916	0.20 U	0.20 U	**0.86**	**0.74**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.20 U	0.20 U	**0.77**	**0.75**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.20 U	0.20 U	**3.6**	**0.95**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.20 U	0.20 U	**0.09 J_B**	**0.04 J_B**	**0.06 J**	0.20 U	**0.05 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016	0.20 U	0.20 U	**0.08 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-W-092916	0.20 U	0.20 U	**0.05 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	0.20 U	0.20 U	**160**	**82**	**8.0**	**4.6**	**12**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.20 U	0.20 U	**0.70**	**0.21**	**0.24**	**0.05 J**	**0.14 J**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.20 U	0.20 U	**0.21 J_B**	**0.29**	**0.11 J**	**0.34**	**0.57**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	**0.06 J**	0.20 U	**0.54**	**0.11 J**	**0.11 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	**0.08 J**	0.20 U	**0.55**	**0.13 J**	**0.10 J**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.20 U	0.20 U	**1.8**	**0.58**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116	0.20 U	0.20 U	**1.0**	**0.30**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116	0.20 U	0.20 U	**0.13 J_B**	**0.08 J_B**	**0.16 J**	**0.65**	**2.5**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Trichloro-fluoromethane 75-69-4 µg/L	1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1 µg/L	*m* - & *p* - Xylenes 179601-23-1 µg/L	*o* -Xylene 95-47-6 µg/L	1,2-Dichloro-benzene 95-50-1 µg/L	1,3-Dichloro-benzene 541-73-1 µg/L	1,4-Dichloro-benzene 106-46-7 µg/L	Acrolein 107-02-8 µg/L	Bromoethane 74-96-4 µg/L	1,1-Dichloro-propene 563-58-6 µg/L	Dibromo-methane 74-95-3 µg/L	1,1,1,2-Tetra-chloroethane 630-20-6 µg/L
ICS-MWDp(MW23)-W-100116	0.20 U	0.20 U	**0.16 J_B**	**0.04 J_B**	**0.26**	**0.94**	**3.6**	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116	**0.07 J**	**0.13 J**	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWJu(MW27)-W-092716	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.20 U	0.20 U	**0.27 J**	**0.25**	**0.21**	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	**0.04 J**	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816	0.20 U	0.20 U	**0.13 J_B**	**0.04 J**	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816												
Trip Blank	0.20 U	0.20 U	**0.06 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116	0.20 U	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L
ICS-DMCMWA-W-092916	0.50 U	1.0 U	**0.05 J**	**0.75**	0.20 U	0.20 U	0.20 U	0.20 U	**2.4**	**1.0**	0.20 U	0.20 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.50 U	1.0 U	**0.06 J**	**0.71**	0.20 U	0.20 U	0.20 U	0.20 U	**2.3**	**0.99**	0.20 U	0.20 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.50 U	1.0 U	**2.3**	**5.2**	0.20 U	0.20 U	0.20 U	0.20 U	**2.1**	**1.2**	0.20 U	0.20 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.50 U	1.0 U	0.20 U	**0.03 J$_B$**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.03 J**
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-W-092916	0.50 U	1.0 U	0.20 U	**0.03 J$_B$**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	0.50 U	1.0 U	**7.9**	**39**	0.20 U	0.20 U	0.20 U	0.20 U	**4.4**	**7.0**	0.20 U	0.20 U
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.50 U	1.0 U	**0.30**	**0.75**	0.20 U	0.20 U	0.20 U	0.20 U	**0.12 J**	**0.12 J**	0.20 U	0.20 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.50 U	1.0 U	**0.06 J**	**0.19 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.05 J**	**0.04 J**	0.20 U	0.20 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.50 U	1.0 U	**0.17 J**	**0.06 J$_B$**	0.20 U	0.20 U	0.20 U	0.20 U	**0.34**	**0.09 J**	0.20 U	0.20 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.50 U	1.0 U	**0.17 J**	**0.07 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.34**	**0.10 J**	0.20 U	**0.03 J**
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.50 U	1.0 U	0.20 U	**0.13 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.40**	0.20 U	0.20 U	0.20 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116	0.50 U	1.0 U	**0.05 J**	**0.45**	0.20 U	0.20 U	0.20 U	0.20 U	**0.24**	**0.09 J**	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116	0.50 U	1.0 U	0.20 U	**0.03 J$_B$**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	1,2,3-Trichloro-propane 96-18-4 µg/L	*trans*-1,4-Dichloro-2-butene 110-57-6 µg/L	1,3,5-Trimethyl-benzene 108-67-8 µg/L	1,2,4-Trimethyl-benzene 95-63-6 µg/L	1,2-Dibromo-ethane 106-93-4 µg/L	Bromochloro-methane 74-97-5 µg/L	2,2-Dichloro-propane 294-20-7 µg/L	1,3-Dichloro-propane 142-28-9 µg/L	Isopropyl-benzene 98-82-8 µg/L	n-Propyl-benzene 103-65-1 µg/L	Bromo-benzene 108-86-1 µg/L	2-Chloro-toluene 95-49-8 µg/L
ICS-MWDp(MW23)-W-100116	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWJu(MW27)-W-092716	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.50 U	1.0 U	**0.04 J**	**0.18 J**	0.20 U	0.20 U	0.20 U	0.20 U	**0.10 J**	**0.05 J**	0.20 U	0.20 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816	0.50 U	1.0 U	0.20 U	**0.03 J_B**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB1-W-092816												
Trip Blank	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trip Blank	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116	0.50 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	4-Chloro-toluene 106-43-4 µg/L	*tert* -Butyl-benzene 98-06-6 µg/L	*sec* -Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L
ICS-DMCMWA-W-092916	0.20 U	**0.10 J**	**0.66**	**0.65**	**0.55**	0.50 U	0.50 U	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.20 U	**0.09 J**	**0.64**	**0.60**	**0.56**	0.50 U	0.50 U	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.20 U	**0.06 J**	**0.57**	**1.0**	**0.51**	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
ICS-DMCMWC-W-092916	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	0.20 U	0.20 U	**1.5**	**1.5**	**1.0**	**0.28 J**	0.50 U	**0.5**	0.2 U	0.2 U	**1.2**	**1.5**
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.20 U	0.20 U	**0.04 J**	**0.15 J**	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	**0.05 J**	**0.2 J**
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.20 U	0.20 U	**0.03 J**	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.20 U	0.20 U	**0.04 J**	**0.04 J**	**0.03 J**	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.20 U	**0.03 J**	**0.05 J**	**0.04 J**	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	**0.5**	0.2 U	0.2 U	**0.07 J**	**0.2**
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116	0.20 U	**0.03 J**	**0.11 J**	**0.08 J**	0.20 U	0.50 U	0.50 U					
ICS-MWDu(MW22)-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	4-Chloro-toluene 106-43-4 µg/L	*tert*-Butyl-benzene 98-06-6 µg/L	*sec*-Butyl-benzene 135-98-8 µg/L	4-Isopropyl-toluene 99-87-6 µg/L	n-Butyl-benzene 104-51-8 µg/L	1,2,4-Trichloro-benzene 120-82-1 µg/L	1,2,3-Trichloro-benzene 87-61-6 µg/L	Phenol 108-95-2 µg/L	2-Chloro-phenol 95-57-8 µg/L	Benzyl alcohol 100-51-6 µg/L	2-Methyl-phenol 95-48-7 µg/L	4-Methyl-phenol 106-44-5 µg/L
ICS-MWDp(MW23)-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
ICS-MWHl(MW24)-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
ICS-MWJu(MW27)-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.20 U	**0.03 J**	**0.05 J**	**0.07 J**	**0.03 J**	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	**0.03 J**	0.2 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
ICS-RB1-W-092816	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-RB1-W-092816												
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
Trip Blank	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U					
ICS-RB2-W-100116	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.50 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L
ICS-DMCMWA-W-092916	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**19**	1.0 U	**14**	1.0 U	1.0 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**17**	1.0 U	**13**	1.0 U	1.0 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.5**	1.0 U	**1.3**	1.0 U	1.0 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.010 J_B**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016												
ICS-DMCMWC-W-092916	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.2 J_B**	1.0 U	**0.014 J_B**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	0.2 U	0.2 U	0.2 U	0.2 U	**3.5**	2.0 U	**3.0**	**23**	1.0 U	**49**	**0.6 J**	**0.4 J**
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.6**	1.0 U	**0.3**	1.0 U	1.0 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**1.0 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.5 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.018 J_{RB}**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.2 U	0.2 U	0.2 U	0.2 U	**0.3 J**	2.0 U	1.0 U	**0.076**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.077**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.8 J_B**	1.0 U	**0.018 J_B**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116												
ICS-MWDu(MW22)-W-100116	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	**0.010 J_B**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	N-Nitroso-di-n-propylamine 621-64-7 µg/L	Hexachloro-ethane 67-72-1 µg/L	Nitrobenzene 98-95-3 µg/L	Isophorone 78-59-1 µg/L	2,4-Dimethyl-phenol 105-67-9 µg/L	Benzoic acid 65-85-0 µg/L	2,4-Dichloro-phenol 120-83-2 µg/L	Naphthalene 91-20-3 µg/L	4-Chloro-3-methylphenol 59-50-7 µg/L	2-Methyl-naphthalene 91-57-6 µg/L	2,4,6-Trichloro-phenol 88-06-2 µg/L	2,4,5-Trichloro-phenol 95-95-4 µg/L
ICS-MWDp(MW23)-W-100116												
ICS-MWHl(MW24)-W-092716	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116												
ICS-MWJu(MW27)-W-092716	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	**0.023**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.8 J_B**	1.0 U	**0.041**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.6 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	2.0 U	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.7 J_B**	1.0 U	0.010 U	1.0 U	0.2 U	1.0 U	1.0 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116												
Trip Blank												
Trip Blank												
ICS-RB1-W-092816	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**1.1 J**	1.0 U	**0.011**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-RB1-W-092816												
Trip Blank												
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB2-W-100116	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	**0.3 J**	1.0 U	**0.010 J**	1.0 U	0.2 U	1.0 U	1.0 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_B = estimate; associated value is likely associated with contribution from sampling/laboratory background or method blank.
J_R = estimate; associated value is likely biased low due to noncompliant recovery of performance indicators.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L	Dibenzofuran 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L
ICS-DMCMWA-W-092916	0.2 U	0.2 U	**0.11**	**5.9**	**0.6**	1.0 U	1.0 U	0.2 U	0.2 U	**1.3**	0.2 U	0.025 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.2 U	0.2 U	**0.081**	**6.1**	**0.6**	1.0 U	1.0 U	0.2 U	0.2 U	**1.3**	0.2 U	**0.016 J**
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.2 U	0.2 U	**0.043**	**4.0**	**0.081**	1.0 U	1.0 U	0.2 U	0.2 U	**0.8**	0.2 U	0.025 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.2 U	0.2 U	0.010 U	**0.005 J**	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016												
ICS-DMCMWC-W-092916	0.2 U	0.2 U	0.010 U	**0.007 J**	0.2 U	1.0 U	1.0 U	0.2 U	0.2 U	**0.006 J**	0.2 U	0.025 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.1 J**	0.2 U	**0.003 J**	0.2 U	0.025 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	0.2 U	0.2 U	**0.10**	**0.8**	**0.30**	1.0 U	1.0 U	0.2 U	0.2 U	**1.1**	0.2 U	0.025 U
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.2 U	0.2 U	**0.015**	**0.4**	**0.021**	1.0 U	1.0 U	0.2 U	0.2 U	**0.023**	**0.1 J**	0.025 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U	0.010 U	0.2 U	0.025 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U	0.010 U	0.2 U	0.025 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U	0.010 U	0.2 U	0.025 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.09 J**	0.2 U	**0.004 J**	0.2 U	**0.031**
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.2 U	0.2 U	**0.009 J**	**0.20**	**0.008 J**	1.0 U	1.0 U	**0.2 J**	0.2 U	**0.020**	0.2 U	0.025 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.2 U	0.2 U	**0.011**	**0.20**	**0.010 J**	1.0 U	1.0 U	**0.2 J**	0.2 U	**0.031**	0.2 U	0.025 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.2 U	0.2 U	**0.010 J**	**0.014**	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	**0.013**	0.2 U	0.025 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116												
ICS-MWDu(MW22)-W-100116	0.2 U	0.2 U	**0.006 J**	**3.4**	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	**0.017 J**
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	2-Chloro-naphthalene 91-58-7 µg/L	Dimethyl-phthalate 131-11-3 µg/L	Acenaph-thylene 208-96-8 µg/L	Acenaphthene 83-32-9 µg/L	Dibenzofuran 132-64-9 µg/L	2,6-Dinitro-toluene 606-20-2 µg/L	2,4-Dinitro-toluene 121-14-2 µg/L	Diethyl-phthalate 84-66-2 µg/L	4-Chlorophenyl-phenylether 7005-72-3 µg/L	Fluorene 86-73-7 µg/L	N-Nitrosodi-phenylamine 86-30-6 µg/L	Pentachloro-phenol 87-86-5 µg/L
ICS-MWDp(MW23)-W-100116												
ICS-MWHl(MW24)-W-092716	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.1 J**	0.2 U	0.010 U	0.2 U	0.025 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116												
ICS-MWJu(MW27)-W-092716	0.2 U	0.2 U	0.010 U	**0.19**	**0.037**	1.0 U	1.0 U	**0.1 J**	0.2 U	**0.11**	0.2 U	0.025 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.2 U	0.2 U	0.010 U	**0.047**	**0.008 J**	1.0 U	1.0 U	0.2 U	0.2 U	**0.018**	0.2 U	0.025 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	**0.028**
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	**0.1 J**	0.2 U	0.010 U	0.2 U	0.025 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116												
Trip Blank												
Trip Blank												
ICS-RB1-W-092816	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-RB1-W-092816												
Trip Blank												
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB2-W-100116	0.2 U	0.2 U	0.010 U	0.010 U	0.010 U	1.0 U	1.0 U	0.2 U	0.2 U	0.010 U	0.2 U	0.025 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L
ICS-DMCMWA-W-092916	**1.3**	**1.5 J_Q**	**0.4**	0.2 U	**0.13**	**0.21**	0.2 U	**0.031**	**0.2**	**0.051**	0.2 U	**0.029**
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	**1.2**	**1.4 J_Q**	**0.4**	0.2 U	**0.15**	**0.20**	0.2 U	**0.030**	**0.7**	**0.045**	0.2 U	**0.024**
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	**0.076**	**1.2 J_Q**	**0.011**	0.2 U	**0.031**	**0.028**	0.2 U	**0.004 J**	**0.3**	**0.006 J**	0.2 U	**0.005 J**
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	**0.004 J**	0.2 U	**0.004 J**	0.2 U	**0.008 J**	**0.010**	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016												
ICS-DMCMWC-W-092916	**0.005 J**	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	**0.004 J**	0.2 U	0.010 U	0.2 U	**0.003 J**	0.010 U	0.2 U	0.010 U	**2.3**	0.010 U	0.2 U	0.010 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	**1.4**	**1.6**	**0.5**	0.2 U	**0.3**	**0.2**	0.2 U	**0.020**	0.2 U	**0.034**	0.2 U	**0.015**
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	**0.009 J**	0.2 U	**0.007 J**	0.2 U	**0.007 J**	**0.004 J**	0.2 U	0.010 U	**0.9**	0.010 U	0.2 U	0.010 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	**0.004 J**	**0.09 J**	0.010 U	**0.5**	**0.022**	**0.027**	0.2 U	0.010 U	**0.4**	0.010 U	0.010 U	0.010 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	**0.003 J**	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	**0.2**	0.010 U	0.2 U	0.010 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	**3.1**	0.010 U	0.2 U	0.010 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	**0.3**	0.010 U	0.2 U	0.010 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	**0.007 J**	0.2 U	**0.003 J**	0.2 U	**0.011**	**0.007 J**	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	**0.009 J**	0.2 U	**0.004 J**	0.2 U	**0.012**	**0.007 J**	0.2 U	0.010 U	**0.2 J_B**	0.010 U	0.2 U	0.010 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	**0.015**	0.2 U	**0.009 J**	0.2 U	**0.012**	**0.014**	0.2 U	**0.009 J**	0.2 U	**0.010**	0.2 U	**0.018**
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116												
ICS-MWDu(MW22)-W-100116	**0.003 J**	0.2 U	0.010 U	0.2 U	**0.004 J**	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Phenanthrene 85-01-8 µg/L	Carbazole 86-74-8 µg/L	Anthracene 120-12-7 µg/L	Di-n-butyl-phthalate 84-74-2 µg/L	Fluoranthene 206-44-0 µg/L	Pyrene 129-00-0 µg/L	Butylbenzyl-phthalate 85-68-7 µg/L	Benzo(a)-anthracene 56-55-3 µg/L	*bis* (2-Ethylhexyl)-phthalate 117-81-7 µg/L	Chrysene 218-01-9 µg/L	Di-n-octyl-phthalate 117-84-0 µg/L	total Benzo-fluoranthenes µg/L
ICS-MWDp(MW23)-W-100116												
ICS-MWHl(MW24)-W-092716	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116												
ICS-MWJu(MW27)-W-092716	**0.077**	0.2 U	**0.007 J**	0.2 U	**0.018**	**0.013**	0.2 U	0.010 U	**5.1**	0.010 U	**0.7**	0.010 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	**0.011**	0.2 U	**0.005 J**	0.2 U	**0.009 J**	**0.009 J**	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	**0.2 J_B**	0.010 U	0.2 U	0.010 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116												
Trip Blank												
Trip Blank												
ICS-RB1-W-092816	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-RB1-W-092816												
Trip Blank												
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB2-W-100116	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U	0.2 U	0.010 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_Q = estimate; due to noncompliant CCV check.
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L
ICS-DMCMWA-W-092916	**0.019**	**0.008 J**	0.010 U	**0.013**	28	0.48	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	**0.015**	**0.005 J**	0.010 U	**0.010 J**	26	0.47	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.010 U	0.010 U	0.010 U	0.010 U	5.4	0.074	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.010 U	0.010 U	0.010 U	0.010 U	0.023	0.018	0.00063 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016												
ICS-DMCMWC-W-092916	0.010 U	0.010 U	0.010 U	0.010 U	0.032	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.0025 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	**0.007 J**	**0.004 J**	0.010 U	**0.007 J**	27	0.59	0.010 U	0.020 U	0.00063 U	0.010 U	0.020 U	0.010 U
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.010 U	0.010 U	0.010 U	0.010 U	0.016	0.011	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.010 U	0.010 U	0.010 U	0.010 U	1.0	0.049	0.00063 U	0.030 U	0.010 U	0.00063 U	0.00063 U	0.00063 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.0016 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.010 U	0.010 U	0.010 U	0.010 U	0.022	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.010 U	0.010 U	0.010 U	0.010 U	0.31	0.018	0.0013 U	0.00063 U	0.00063 U	0.0062 U	0.00063 U	0.00063 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.010 U	0.010 U	0.010 U	0.010 U	0.33	0.019	0.00063 U	0.00063 U	0.013 U	0.0075 U	0.00063 U	0.00063 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	**0.009 J**	**0.009 J**	**0.007 J**	**0.009 J**	0.079	0.097	0.00063 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.010 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116												
ICS-MWDu(MW22)-W-100116	0.010 U	0.010 U	0.010 U	0.010 U	3.4	0.010 U	0.0029 U	**0.0014 J_P**	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Benzo(a)-pyrene 50-32-8 µg/L	Indeno(1,2,3-cd)pyrene 193-39-5 µg/L	Dibenz(a,h)-anthracene 53-70-3 µg/L	Benzo(g,h,i)-perylene 191-24-2 µg/L	LPAH µg/L	HPAH µg/L	alpha-BHC 319-84-6 µg/L	beta-BHC 319-85-7 µg/L	delta-BHC 319-86-8 µg/L	gamma-BHC (Lindane) 58-89-9 µg/L	Heptachlor 76-44-8 µg/L	Aldrin 309-00-2 µg/L
ICS-MWDp(MW23)-W-100116												
ICS-MWHl(MW24)-W-092716	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116												
ICS-MWJu(MW27)-W-092716	0.010 U	0.010 U	0.010 U	0.010 U	0.41	0.031	0.00063 U	0.0016 U	0.00063 U	0.00063 U	0.0016 U	0.00063 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.010 U	0.010 U	0.010 U	0.010 U	0.13	0.018	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.010 U	0.00063 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	**0.0016**	0.00063 U	**0.0021**	0.00063 U	0.00063 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116												
Trip Blank												
Trip Blank												
ICS-RB1-W-092816	0.010 U	0.010 U	0.010 U	0.010 U	0.011	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-RB1-W-092816												
Trip Blank												
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB2-W-100116	0.010 U	0.010 U	0.010 U	0.010 U	0.010	0.010 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U	0.00063 U
ICS-RB2-W-100116												

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081A).
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L
ICS-DMCMWA-W-092916	0.00063 U	0.00063 U	0.0013 U	**0.016**	0.0013 U	0.0013 U	**0.064**	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DMCMWA-W-092916												
ICS-DUP2-W-092916	0.00063 U	0.00063 U	0.0013 U	**0.015**	0.0013 U	0.0013 U	**0.058**	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DUP2-W-092916												
ICS-DMCMWB-W-092916	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DMCMWB-W-092916												
ICS-HCB1-W-093016	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-HCB1-W-093016												
ICS-HCB2R-W-093016												
ICS-DMCMWC-W-092916	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DMCMWC-W-092916												
ICS-DOFMW1-W-092616	0.00063 U	0.013 U	0.0054 U	**0.0024**	0.0013 U	0.0013 U	**0.0024 J_P**	0.0013 U	0.014 U	0.0063 U	0.007 U	0.007 U
ICS-DOFMW1-W-092616												
ICS-SAMW1-W-093016	0.040 U	0.00063 U	0.010 U	**0.058 J_P**	0.010 U	0.50 U	0.010 U	0.055 U	0.070 U	0.30 U	0.0013 U	0.015 U
ICS-SAMW1-W-093016												
ICS-DOFMW2-W-092616	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DOFMW2-W-092616												
ICS-SAMW2-W-093016	0.00063 U	0.00063 U	0.0013 U	0.010 U	0.0013 U	0.0013 U	**0.0044**	0.0013 U	0.010 U	0.0063 U	0.0013 U	0.0013 U
ICS-SAMW2-W-093016												
ICS-DOFMW3-W-092616	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DOFMW3-W-092616												
ICS-SAMW3-W-092716	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-SAMW3-W-092716												
ICS-DOFMW4-W-092616	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DOFMW4-W-092616												
ICS-DOFMW5-W-092616	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DOFMW5-W-092616												
ICS-DOFMW6-W-092716	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DOFMW6-W-092716												
ICS-DOFMW7-W-092716	0.00063 U	0.0018 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DOFMW7-W-092716												
ICS-DUP1-W-092716	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DUP1-W-092716												
ICS-DOFMW8-W-093016	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-DOFMW8-W-093016												
ICS-MWCp(MW20)-W-100116												
ICS-MWDu(MW22)-W-100116	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWDu(MW22)-W-100116												

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	Heptachlor epoxide 1024-57-3 µg/L	Endosulfan I 959-98-8 µg/L	Dieldrin 60-57-1 µg/L	4,4'-DDE 72-55-9 µg/L	Endrin 72-20-8 µg/L	Endosulfan II 33213-65-9 µg/L	4,4'-DDD 72-54-8 µg/L	Endosulfan sulfate 1031-07-8 µg/L	4,4'-DDT 50-29-3 µg/L	Methoxychlor 72-43-5 µg/L	Endrin ketone 53494-70-5 µg/L	Endrin aldehyde 7421-93-4 µg/L
ICS-MWDp(MW23)-W-100116												
ICS-MWHl(MW24)-W-092716	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWHl(MW24)-W-092716												
ICS-MWAp(MW25)-W-100116												
ICS-MWJu(MW27)-W-092716	0.00063 U	0.00063 U	0.0013 U	**0.0026 J_P**	0.0013 U	0.061 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWJu(MW27)-W-092716												
ICS-MWEu(MW28)-W-093016	0.00063 U	0.00063 U	0.0013 U	0.020 U	0.0013 U	0.0013 U	**0.010**	0.0013 U	0.010 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWEu(MW28)-W-093016												
ICS-MWFu(MW30)-W-092816	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWFu(MW30)-W-092816												
ICS-MWFl(MW31)-W-092816	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWFl(MW31)-W-092816												
ICS-MWGl(MW32)-W-092816	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWGl(MW32)-W-092816												
ICS-MWGu(MW33)-W-092816	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWGu(MW33)-W-092816												
ICS-MWKu(MW34)-W-092816	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWKu(MW34)-W-092816												
ICS-MWKl(MW35)-W-092816	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-MWKl(MW35)-W-092816												
ICS-MWIl(MW36)-W-092716	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	**0.0017**	0.0063 U	0.0013 U	0.0013 U
ICS-MWIl(MW36)-W-092716												
ICS-MWBp(MW38)-W-100116												
Trip Blank												
Trip Blank												
ICS-RB1-W-092816	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-RB1-W-092816												
Trip Blank												
Trip Blank												
Trip Blank												
Trip Blank												
ICS-RB2-W-100116	0.00063 U	0.00063 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0063 U	0.0013 U	0.0013 U
ICS-RB2-W-100116												

J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081A).
U = nondetected at the associated lower reporting limit.

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	*trans* - Chlordane 5103-74-2 µg/L	*cis* - Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-DMCMWA-W-092916	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.015 U	**0.035 J_P**	**0.036 J_P**	0.010 U	0.010 U	0.071
ICS-DMCMWA-W-092916													
ICS-DUP2-W-092916	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.013 U	**0.028 J_P**	**0.024 J_P**	0.010 U	0.010 U	0.052
ICS-DUP2-W-092916													
ICS-DMCMWB-W-092916	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	**0.013**	**0.007 J**	0.010 U	0.010 U	0.020
ICS-DMCMWB-W-092916													
ICS-HCB1-W-093016	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	**0.048**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.048
ICS-HCB1-W-093016													
ICS-HCB2R-W-093016													
ICS-DMCMWC-W-092916	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-DMCMWC-W-092916													
ICS-DOFMW1-W-092616	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	**0.049**	0.10 U	**0.11**	0.010 U	0.010 U	0.16
ICS-DOFMW1-W-092616													
ICS-SAMW1-W-093016	0.50 U	0.00063 U	0.13 U	0.017 U	0.010 U	0.010 U	**2.1**	0.010 U	**0.69**	**0.48**	0.010 U	0.010 U	3.2
ICS-SAMW1-W-093016													
ICS-DOFMW2-W-092616	0.00063 U	0.00063 U	0.13 U	**0.0019**	0.50 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-DOFMW2-W-092616													
ICS-SAMW2-W-093016	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	**0.15**	0.010 U	**0.14**	**0.11**	0.010 U	0.010 U	0.40
ICS-SAMW2-W-093016													
ICS-DOFMW3-W-092616	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-DOFMW3-W-092616													
ICS-SAMW3-W-092716	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-SAMW3-W-092716													
ICS-DOFMW4-W-092616	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0017 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-DOFMW4-W-092616													
ICS-DOFMW5-W-092616	0.00063 U	0.00063 U	0.13 U	0.50 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-DOFMW5-W-092616													
ICS-DOFMW6-W-092716	**0.0040**	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.035 U	0.010 U	0.010 U	**0.007 J**	0.010 U	0.010 U	0.035 U
ICS-DOFMW6-W-092716													
ICS-DOFMW7-W-092716	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	**0.043**	0.010 U	**0.013**	**0.003 J**	0.010 U	0.010 U	0.059
ICS-DOFMW7-W-092716													
ICS-DUP1-W-092716	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	**0.039**	0.010 U	**0.012**	**0.003 J**	0.010 U	0.010 U	0.054
ICS-DUP1-W-092716													
ICS-DOFMW8-W-093016	0.00063 U	0.00063 U	0.13 U	0.010 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-DOFMW8-W-093016													
ICS-MWCp(MW20)-W-100116						0.010 U	0.010 U	**0.039**	0.015 U	**0.004 J**	0.010 U	0.010 U	0.043
ICS-MWDu(MW22)-W-100116	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.004 J**	0.010 U	0.010 U	0.010 U
ICS-MWDu(MW22)-W-100116													

Remedial Investigation
ICS / [former] NW Cooperage, Seattle, WA
Groundwater Analyses, September-October 2016

Field I.D.	*trans* - Chlordane 5103-74-2 µg/L	*cis* - Chlordane 5103-71-9 µg/L	Toxaphene 8001-35-2 µg/L	Hexachloro-benzene 118-74-1 µg/L	Hexachloro-butadiene 87-68-3 µg/L	Aroclor 1016 12674-11-2 µg/L	Aroclor 1242 53469-21-9 µg/L	Aroclor 1248 12672-29-6 µg/L	Aroclor 1254 11097-69-1 µg/L	Aroclor 1260 11096-82-5 µg/L	Aroclor 1221 11104-28-2 µg/L	Aroclor 1232 11141-16-5 µg/L	total PCBs µg/L
ICS-MWDp(MW23)-W-100116						0.010 U	0.010 U	0.010 U	0.015 U	**0.010**	0.010 U	0.010 U	0.015 U
ICS-MWHl(MW24)-W-092716	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.003 J**	0.010 U	0.010 U	0.010 U
ICS-MWHl(MW24)-W-092716													
ICS-MWAp(MW25)-W-100116													
ICS-MWJu(MW27)-W-092716	**0.0021 J_P**	0.00063 U	0.13 U	0.0082 U	0.0013 U	0.010 U	0.051 U	0.010 U	0.025 U	**0.017**	0.010 U	0.010 U	0.051 U
ICS-MWJu(MW27)-W-092716													
ICS-MWEu(MW28)-W-093016	0.00063 U	0.00063 U	0.13 U	0.010 U	0.0013 U	0.010 U	**0.17**	0.010 U	0.050 U	**0.049**	0.010 U	0.010 U	0.21
ICS-MWEu(MW28)-W-093016													
ICS-MWFu(MW30)-W-092816	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MWFu(MW30)-W-092816													
ICS-MWFl(MW31)-W-092816	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MWFl(MW31)-W-092816													
ICS-MWGl(MW32)-W-092816	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MWGl(MW32)-W-092816													
ICS-MWGu(MW33)-W-092816	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MWGu(MW33)-W-092816													
ICS-MWKu(MW34)-W-092816	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MWKu(MW34)-W-092816													
ICS-MWKl(MW35)-W-092816	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MWKl(MW35)-W-092816													
ICS-MWIl(MW36)-W-092716	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-MWIl(MW36)-W-092716													
ICS-MWBp(MW38)-W-100116													
Trip Blank													
Trip Blank													
ICS-RB1-W-092816	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-RB1-W-092816													
Trip Blank													
Trip Blank													
Trip Blank													
Trip Blank													
ICS-RB2-W-100116	0.00063 U	0.00063 U	0.13 U	0.0013 U	0.0013 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
ICS-RB2-W-100116													

J = estimate associated with value less than the verifiable lower quantitation limit.
J_P = estimated value due to high variability exhibited between dual column responses on GC/ECD (M.8081A) or peak variability in mixtures (M.8082A).
U = nondetected at the associated lower reporting limit.

APPENDIX K
COMPARISON OF DISSOLVED AND TOTAL METALS CONCENTRATIONS

REMEDIAL INVESTIGATION REPORT
ICS/NWC RI/FS
SEATTLE, WASHINGTON

APPENDIX K
COMPARISON OF DISSOLVED AND TOTAL METALS CONCENTRATIONS
REMEDIAL INVESTIGATION
ICS/NWC SITE, SEATTLE, WASHINGTON

INTRODUCTION

The remedial investigation work plan (DOF 2012), required that both total and dissolved metals be analyzed. All samples were collected and analyzed in accordance with the approved work plan (and accompanying sampling and analysis plan) and the analytical results were validated by DMD Inc. (see Appendix J). Total metal analyses were conducted using non-filtered samples placed in containers containing the appropriate preservatives. Samples for dissolved metals analysis were field filtered using in-line 0.45 micron filters prior to placement in the containers with the preservatives.

Some solids (soil particulates) were entrained in most of the samples delivered to the laboratory for analysis. While sampling methods were used to minimize the entrainment of particulates, it is impractical to entirely eliminate particulates from groundwater samples delivered to the laboratory, especially in screening level samples from push-probes. The soil particulates contain metals that are naturally occurring and, in some cases, are present from facility operations (e.g. placement of fill soils with metal concentrations higher than background). In either case, laboratory preparation methods for groundwater samples will extract the metals dissolved in groundwater and from the particulates, and report them as a groundwater concentration. Depending on the metal and other factors, the total concentration is often biased high and is not representative of the concentrations with the potential to migrate in groundwater to surface water.

To assess the contribution of particulates to the reported metal concentrations in the total metal analytical results, dissolved vs. total metal concentrations were compared for samples collected in 2012, 2015 and 2016. Push-probe analytical results are summarized in attached Table K.1 while monitoring well sample analytical results are summarized in Table K.2. Screening levels and sample statistics are summarized in the tables. Comparisons were made for arsenic, total chromium (Cr^{+3} + Cr^{+6}), copper, lead, nickel, and zinc concentrations for push-probe and monitoring well groundwater samples[i].

[i] Comparisons for antimony, beryllium, cadmium, and silver were not made because of the large number of non-detects in the sample sets. Mercury was included in Tables K.3 and K.4 but was not plotted because of the large number of non-detects. These metals were detected more frequently in the total concentration samples as compared to the dissolved concentration samples. Average concentrations for those constituents listed in Table K.3 and K.4 were calculated using non-detects at the indicated reporting level.

AVERAGE CONCENTRATIONS OF TOTAL AND DISSOLVED METALS

A general indication of the sample bias caused by particulates can be assessed by comparing the simple average concentration of total and dissolved metal concentrations. Table K.3 presents a comparison for push-probe samples summarized in attached Table K.1. As summarized below, concentration increases between dissolved and total metal concentrations in the push-probe samples ranged between approximately 40% (arsenic) and 2,680% (lead) of the dissolved sample concentration. The number of non-detects also increased between the dissolved and total metal concentrations with comparable reporting limits. The average push-probe sample turbidity was 161 NTUs and ranged from 6.6 to 586 NTUs.

Table K.3. Average Push-Probe Metal Concentrations

Metal	Number Samples	Total Conc. (ug/l)	Dissolved Conc. (ug/l)	% Increase (dissolved vs. total)
Arsenic	28	6.6 (nd=1)	4.7 (nd=6)	+40
Lead	28	13.9 (nd=2)	<0.5 (nd=21)	+2680
TChromium	28	21.3 (nd=1)	4.9 (nd=12)	+335
Mercury	28	46.6 (nd=17)	<20 (nd=27)	+133
Nickel	28	11.7 (nd=1)	4.6 (nd=0)	+154
Copper	28	19.7 (nd=2)	<2.5 (nd=14)	+688
Zinc	28	41.8 (nd=6)	12.3 (nd=18)	+240

Notes: (nd=#) – Number of non-detects; Average sample turbidity = 161 NTUs

A comparison of total vs dissolved sample concentrations for the monitoring well samples is presented below in Table K.4 using data summarized in attached Table K.2. The percent increase between total and dissolved average concentrations ranged between 10% (arsenic) and 280% (lead). The average monitoring well sample turbidity was 13.6 NTUs and ranged from 2.2 to 121 NTUs.

Table K.4. Average Monitoring Well Metal Concentrations

Metal	Number Samples	Total Conc. (ug/l)	Dissolved Conc. (ug/l)	% Increase (dissolved vs. total)
Arsenic	82	2.2 (nd=1)	2.0 (nd=1)	+10
Lead	82	1.9 (nd=7)	0.5 (nd=22)	+280
TChromium	82	15.3 (nd=1)	13 (nd=1)	+18
Mercury	82	18.9 (nd=42)	12.9 (nd=53)	+47
Nickel	82	2.9 (nd=0)	2.4 (nd=2)	+21
Copper	82	4.9 (nd=7)	3.4 (nd=16)	+44
Zinc	80-81	10.9 (nd=13)	8.6 (nd=19)	+27

Notes: (nd=#) – Number of non-detects; Average sample turbidity = 13.6 NTUs

The smaller differences between the push-probe and monitoring well average metal concentrations were caused by the substantial decline in the turbidity of the well samples as compared to the push-probe samples. The average turbidity of the push-probe samples

was 161 NTUs while that for the well samples was 13.6 NTUs. This represents a decline of over 90% in the turbidity of the samples between the two sample sets and clearly illustrates the effect of particulates on metal concentrations in groundwater samples.

Figure K-1 graphically illustrates the impact of turbidity on the metal sample results[ii]. The graphs are plots of dissolved metal vs. total metal concentrations. The purpose of the figure is to show how actual total vs dissolved concentrations compare in samples from probes and monitoring wells (if they are equal there is no bias from turbidity). The line shown on each graph are the points where the concentrations are equal. Samples that plot above the line indicate total concentrations are higher than the dissolved concentrations, indicating impacts from turbidity. In general, more of the probe samples plot above the line and at further distances indicating greater impact as compared to the monitoring well samples. Arsenic appears to be least impacted as compared to the other metals which is consistent with the geochemistry of arsenic and our experience.

COMPARISON OF METALS CONCENTRATIONS AND TURBIDITY

Turbidity is a field measure of the cloudiness of a fluid caused by suspended solids. It was measured in the field during groundwater sampling to assist in determining when to collect a sample and to assist in the evaluation of metals concentration data.

Figures K-2 to K-6 present plots of the following:

- The difference between total and dissolved metal concentrations vs turbidity (top graph).

- Average-total less average-dissolved metal concentrations for the following range (sample groups) of turbidities (bottom graph):

    - > 250 NTUs
    - >100 NTUs to 250 NTUs
    - >50 NTUs to 100 NTUs
    - >25 NTUs to 50 NTUs
    - < or equal to 25 NTUs

The purpose of these plots is to show that larger differences between total and dissolved concentrations occur in samples with higher turbidity, regardless of whether the samples are from wells or probes. The plots also graphically illustrate that the differences are larger for the probe samples as compared to the well samples.

Metal concentration differences plotted against turbidity display a large degree of variability (common for environmental samples). Even with the variability, the plots

[ii] In preparing the plots, samples where metals were not detected because of elevated reporting limits were not plotted. Some of the higher total concentrations are not shown (e.g. total copper at 116 ug/l; lead at 197 ug/l) to improve clarity.

show the difference between total and dissolved metals increases as the turbidity increases. To smooth out some of the variability, average differences were plotted by average turbidity for the turbidity ranges listed above (Figures K-2 to K-7). The plots show that the difference between total/dissolved metal concentrations increases as average turbidity increases.

Attachments

Table K.1 – Push-Probe Metals Data
Table K.2 – Monitoring Well Metals Data
Figure K-1 – Total vs. Dissolved Metals Concentrations
Figure K-2 – Total vs. Dissolved Arsenic
Figure K-3 – Total vs. Dissolved Copper
Figure K-4 – Total vs. Dissolved Total Chromium
Figure K-5 – Total vs. Dissolved Lead
Figure K-6 – Total vs. Dissolved Nickel
Figure K-7 – Total vs. Dissolved Zinc

Table K.1 - Push-Probe Metals Data

ICS/NW Cooperage Site
Seattle, Washington

Location	Date	Screen Depth	pH	Turbidity	Arsenic		Cadmium		Total Chromium		Copper		Lead		Mercury		Nickel		Zinc	
					7440-38-2		7440-43-9		7440-47-3		7440-50-8		7439-92-1		7439-97-6		7440-02-0		7440-66-6	
		(feet)	Std. Units	NTU	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Screening Level (SL)			-----	-----	8	8	1.2	1.2	27	27	3.1	3.1	8.1	8.1	25	25	8.2	8.2	81	81
Number of Samples			28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Concentration Average			7	161	4.7	6.6	<0.2	<0.3	4.9	21.3	<2.5	19.7	<0.5	13.9	<20	46.6	4.6	11.7	12.3	41.8
Highest Concentration			8	586	29	28	<0.5	1.2	36	121	27	116	5	197	26	218	18	46	30	320
Exceedance Frequency (%)			-----	-----	18	29	0	0	3.6	29	7.1	79	0	25	3.6	32	18	39	0	14
Number Locations > SL			-----	-----	5	8	0	0	1	8	2	21	0	7	1	9	5	11	0	4
Highest Exceedance Factor (EF)			-----	-----	3.6	3.5	<1	1.0	1.3	4.5	8.7	37	0.6	24	1.1	8.7	2.2	5.6	0.4	4.0
P11	11/17/14	6-10	6.8	22.8	**29**	**28**	<0.2	<0.2	**3**	**3**	**0.6**	**1.7**	<0.1	**1.5**	<20	<20	**1.6**	**1.7**	**4**	**5**
P12	11/17/14	5-9	6.8	40.1	**28**	**27**	<0.5	<0.5	**22**	**20**	**3**	**5**	**0.4**	**1.1**	<20	<20	**5**	**6**	<10	<10
P13	11/13/14	10-15	6.8	73	**11**	**11**	<0.2	<0.2	**8**	**8**	**0.8**	**4.3**	**0.1**	**0.7**	<20	<20	**3.5**	**3.5**	**9**	**10**
P14	11/14/14	10-15	6.7	44.2	**0.4**	**0.8**	<0.1	<0.1	<2.0	**5**	<0.5	**2.0**	**0.3**	**7.0**	<20	<20	**1.5**	**1.8**	**6**	**12**
P15	11/14/14	3-8	6.6	9.8	**12**	**13**	<0.1	<0.1	**10**	**10**	<0.5	**2.2**	**0.1**	**3.3**	<20	<20	**4.8**	**5.1**	<4	**7**
P16	12/10/14	9-14	7.0	575	**2.4**	**5.4**	<0.1	<0.1	<1	**17**	<0.5	**24**	<0.1	**13**	<20	**52**	**3.9**	**14**	<4	**37**
P18A	12/16/14	25-30	7.0	275	**2**	**5**	<0.1	**0.2**	**5**	**45**	**0.5**	**31**	<0.1	**39**	<20	**211**	**4.4**	**18**	<4	**80**
P18B	12/16/14	45-50	6.9	51.9	<2	**3**	<0.5	<0.5	<2.0	**11**	<2	**7**	<0.5	**7.9**	<20	<20	**12**	**14**	<20	<20
P20	11/12/14	10-15	6.8	77	**1.6**	**3.6**	<0.1	<0.1	<0.5	**6**	**1.0**	**14**	<0.1	**1.6**	<20	<20	**2.0**	**14**	<4	**20**
P21A	12/8/14	25-30	6.9	190	**1.0**	**1.2**	<0.1	<0.1	**3**	**11**	<0.5	**9.4**	<0.5	**5**	<20	**33**	**4.1**	**8.3**	**6**	**18**
P21B	12/8/14	45-50	6.8	119	<2	**3**	<1.0	<1.0	<5	**30**	<5	**18**	<1	**9**	<20	**76**	**9**	**18**	<40	**40**
P23	11/12/14	10-15	6.8	122	**3.3**	**4.1**	<0.1	<0.1	<0.5	**2.1**	<0.5	**4**	<0.1	**0.6**	<20	<20	**1.4**	**5**	**5**	**10**
P26	11/13/14	10-15	7.0	255	**15**	**14**	<0.5	<0.5	<2.0	**3**	**3**	**4**	<0.5	**0.6**	<20	<20	**6**	**6**	<20	<20
P27A	11/11/14	15-20	7.2	74.8	**3**	**3**	<0.2	<0.2	**1**	**8**	**2**	**12**	<0.2	**1.8**	<20	<20	**2**	**7**	<10	**20**
P27B	11/11/14	45-50	7.2	372	**2**	**11**	<0.2	**1.2**	<1	**57**	**2**	**116**	<0.2	**197**	<20	**182**	**14**	**46**	**30**	**320**
P28	12/15/14	25-30	6.8	229	<1	**3**	<0.2	<0.2	**2**	**32**	**1**	**14**	<0.2	**1.6**	<20	**23**	**3**	**8**	<10	**20**
P29	12/10/14	29-34	6.8	401	**2**	**12**	<0.2	**0.3**	**3**	**81**	**1**	**66**	**0.4**	**62**	<20	**218**	**3**	**39**	<10	**130**
P30	12/9/14	25-30	7.4	182	**5**	**8**	<0.5	<0.5	**36**	**38**	**27**	**30**	**5.0**	**5.7**	**26**	**48**	**18**	**19**	**40**	**40**
P31	12/9/14	25-30	6.9	65	<1	<1	<0.2	<1.0	<5	**6**	<1	**1**	<0.2	<1	<20	<20	**2**	**3**	<10	**90**
P32A	12/15/14	25-30	6.6	312	<0.5	**5.1**	<0.1	**0.1**	**7.3**	**121**	**0.6**	**52**	<0.1	**8.6**	<20	**35**	**2.0**	**23**	**6**	**59**
P32B	12/15/14	35-40	6.8	183	**2**	**2**	<0.2	<0.2	**2**	**22**	<1	**21**	<0.2	**2.8**	<20	<20	**2**	**8**	<10	**40**
P33A	12/8/14	26-30	6.7	586	**0.3**	**0.8**	<0.1	<0.1	<2.0	**10**	**0.6**	**7.2**	<0.5	**5.1**	<20	**22**	**3.8**	**7.8**	**8**	**29**
ICS-P34 (a)	6/9/15	10-14	7.9	78	**0.3**	**0.9**	<0.1	<0.1	**0.8**	**1.8**	<0.5	**6.6**	<0.1	**2.1**	<20	<20	**0.9**	**1.3**	<4	**4**
ICS-P34(a)	6/9/15	20-24	7.5	33	<0.5	**0.6**	<0.2	<0.2	**3**	**3**	<1	<1	<0.2	**0.4**	<20	<20	**1**	<1	<10	<10
ICS-P35(a)	6/9/15	10-14	6.7	6.6	**0.9**	**1.0**	<0.2	<0.2	<1	<1	<1	<1	<0.2	<0.2	<20	<20	**2**	**2**	<10	<10
ICS-P35(a)	6/8/15	20-24	6.8	9	**2.0**	**10.8**	<0.2	<0.2	**6**	**32**	**10**	**69**	**1.4**	**8.5**	<20	**65**	**11**	**33**	**30**	**80**
ICS-P36(a)	6/8/15	10-14	6.6	6.9	**1.3**	**2.7**	<0.2	<0.2	**2**	**5**	<1	**9**	<0.2	**0.8**	<20	<20	**2**	**5**	<10	<10
ICS-P36(a)	6/8/15	20-14	6.5	127	**0.5**	**3.0**	<0.2	<0.2	<1	**8**	<1	**20**	<0.2	**2.1**	<20	<20	**2**	**8**	<10	**20**

Notes: (a) - Off-site push-probe
< - Not detected at the indicated reporting limit
Less than values were assumed at the reporting limit in calculating concentration averages
[ ] - Concentration exceeds screening level
Bold value = Detected concentration

TABLE K.2 - Monitoring Well Metals Data

ICS/NWC RI/FS
Seattle, Washington

Location	Date	Screen Depth	Field Parameters		Arsenic		Cadmium		Total Chromium		Copper		Lead		Mercury		Nickel		Zinc	
			pH	Turbidity	7440-38-2		7440-43-9		7440-47-3		7440-50-8		7439-92-1		7439-97-6		7440-02-0		7440-66-6	
		(feet)	Std. Units	NTU	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Screening Level (SL)			-----	-----	8	8	1.2	1.2	27	27	3.1	3.1	8.1	8.1	25	25	8.2	8.2	81	81
Number of Samples			82	82	82	82	81	82	82	82	82	82	82	82	82	82	82	82	81	80
Concentration Average			6.8	13.6	2.0	2.2	<0.2	<0.2	13	15.3	3.4	4.9	0.5	1.9	12.9	18.9	2.4	2.9	8.6	10.9
Highest Concentration			8.7	121	10.1	9.9	0.09	0.20	75	84	19	24	4.5	23	17	140	11	17	48	60
Exceedance Frequency (%)			-----	-----	3.7	4.9	0	0	15	16	22	40	0	7.3	0	12.2	2.4	6.1	0	0
Number Locations > SL			-----	-----	1	2	0	0	3	4	7	15	0	4	0	8	2	3	0	0
Highest Exceedance Factor			-----	-----	1.3	1.2	0.08	0.17	2.8	3.1	6.1	7.7	0.6	2.9	0.7	5.6	1.3	2.1	0.6	0.7
DOF-MW-1	11/8/12	12-17	7.0	13.4	**2**	**2**	-----	<1	<5	<5	<5	**4**	<1	**2**	<0.1	<0.1	**8**	**8**	<40	<40
DOF-MW-1	11/11/15		7.5	4.4	**4**	**6**	<1.0	**0.2**	**5**	**24**	**1.1**	**22**	**1**	**20**	**9.5**	**77**	**2**	**12**	**4.5**	**40**
DOF-MW-1	3/22/16		6.5	121	**4**	**9**	<0.5	**0.2**	**7**	**26**	**0.5**	**24**	**0.2**	**15**	**4.0**	**58**	**6**	**17**	**3**	**60**
DOF-MW-1	9/26/16		6.5	7.2	**1.7**	**1.9**	<0.2	<0.5	**3.8**	**4.5**	<1	**2.2**	<0.2	**0.62**	<20	<20	**7.6**	**8.6**	**2**	<20
DOF-MW-2	11/8/12	15-20	6.5	9.8	**2.6**	**4.3**	<0.1	<0.1	**47.2**	**68.3**	**5.2**	**23**	**0.3**	**1.1**	<0.1	<0.1	**1.7**	**2.1**	<4	**7**
DOF-MW-2	11/11/15		7.5	5.8	**3.9**	**4.2**	**0.01**	**0.01**	**66.9**	**65.7**	**15**	**15**	**1.0**	**1.0**	**14**	**15**	**1.5**	**1.8**	**3.8**	**5**
DOF-MW-2	3/22/16		6.6	5.7	**4.1**	**4**	<0.2	**0.01**	**69**	**76**	**15**	**16**	**1.1**	**1.2**	**12**	**14**	**1**	**1.4**	**4**	**3**
DOF-MW-2	9/26/16		6.6	4	**3.8**	**3.6**	<0.2	<0.2	**62**	**69**	**15**	**16**	**1.1**	**1.0**	<20	<20	**1.5**	**1.5**	**4**	**4**
DOF-MW-3	11/8/12	17-22	6.5	10.5	**2.0**	**3.1**	<0.1	<0.1	**28.3**	**37.1**	**1.7**	**5.3**	<0.1	**0.7**	<0.1	<0.1	**1.4**	**1.4**	<4	**4**
DOF-MW-3	11/20/15		7.2	10	**5.3**	**5.1**	<0.2	<0.2	**62**	**75**	**9**	**10**	**0.7**	**0.7**	**13**	**14**	**2**	**2**	**3.3**	**3**
DOF-MW-3	3/24/16		6.5	4.9	**6.0**	**6**	**0.04**	**0.02**	**75**	**82**	**11**	**11**	**0.8**	**1.8**	**15**	**15**	**2**	**2**	**4**	**5**
DOF-MW-3	9/26/16		6.5	2.5	**5.5**	**5.8**	<0.2	<0.2	**74**	**84**	**11**	**11**	**0.94**	**0.88**	<20	<20	**1.7**	**2.0**	**5**	**3**
DOF-MW-4	11/8/12	17-22	6.3	10.3	**2**	**3.6**	<0.1	<0.1	**46.0**	**55.5**	**7.4**	**15**	**0.4**	**0.9**	<0.1	<0.1	**1.5**	**1.7**	**5**	**5**
DOF-MW-4	11/11/15		7.3	6.5	**2.9**	**3**	<0.1	**0.01**	**48.8**	**46.4**	**15**	**16**	**1.0**	**0.9**	**12**	**14**	**1.3**	**1.3**	**3.3**	**3**
DOF-MW-4	3/29/16		6.3	4.5	**2.8**	**3**	**0.01**	**0.01**	**67**	**64**	**14**	**16**	**0.9**	**0.9**	**10**	**22**	**1.3**	**1.3**	**3**	**3**
DOF-MW-4	9/26/16		6.4	2.7	**3.3**	**2.9**	<0.2	<0.2	**59**	**64**	**19**	**18**	**1.2**	**1.1**	<20	<20	**1.4**	**1.2**	**5**	**5**
DOF-MW-5	11/8/12	17-22	6.5	11.2	<0.5	**0.7**	<0.1	<0.1	**10.9**	**13.6**	**2.1**	**7.0**	**0.1**	**0.3**	<0.1	<0.1	**0.8**	**1.0**	<4	<4
DOF-MW-5	11/20/15		7.2	3.5	**0.5**	**0.5**	<0.1	<0.1	**8.9**	**11**	**2.7**	**3.7**	**0.2**	**0.2**	<20	<20	**0.47**	**0.6**	**1.1**	**1**
DOF-MW-5	3/29/16		6.3	4.3	**0.5**	**0.6**	**0.02**	**0.02**	**12**	**12**	**2.8**	**3**	**4.5**	**0.2**	**3**	<20	**0.50**	**0.4**	**1.3**	**1.0**
DOF-MW-5	9/26/16		6.3	4.8	**0.60**	**0.68**	<0.2	<0.2	**12**	**14**	**4.1**	**4.1**	**0.30**	**0.29**	<20	<20	**1**	**0.4**	**3**	<8
DOF-MW-6	11/9/12	13-18	6.9	22.3	**0.8**	**1.3**	<0.1	<0.1	**7.7**	**17**	<1	**6.6**	**0.1**	**1.4**	<0.1	<0.1	**1.7**	**2.3**	<4	<4
DOF-MW-6	11/19/15		7.8	13.2	**0.6**	**0.4**	<0.1	**0.01**	**7.6**	**9**	**1.9**	**2.5**	**0.1**	**0.2**	**3.3**	**3.8**	**0.8**	**0.8**	**48**	**52**
DOF-MW-6	3/24/16		6.4	16.3	**0.4**	**0.5**	**0.02**	**0.02**	**8**	**10**	**2**	**3**	**0.1**	**0.3**	<20	<20	**0.90**	**1**	-----	-----
DOF-MW-6	9/27/16		6.5	4.3	**0.45**	**0.41**	<0.1	<0.1	**7.8**	**7.0**	**1.7**	**1.7**	**0.15**	**0.17**	<20	**65**	**1.0**	**1.0**	**29**	**31**
DOF-MW-7	11/9/12	13-18	6.2	5.9	**1.6**	**1.4**	<0.1	<0.1	**10**	**14**	**1.8**	**3.6**	<0.1	**0.4**	<0.1	<0.1	**2**	**2.4**	<4	<4
DOF-MW-7	11/23/15		6.5	3	**1.0**	**0.9**	<0.1	<0.1	**6.1**	**7**	**0.25**	**0.3**	**0.1**	**0.02**	<20	<20	**1.4**	**1.5**	**0.96**	**0.5**
DOF-MW-7	3/25/16		6.1	2.8	**1.1**	**1.2**	<0.2	<0.1	**7**	**6.3**	**0.1**	**0.1**	**0.02**	**0.04**	<20	<20	**1**	**1.4**	**0.6**	<4
DOF-MW-7	9/27/16		6.2	11.4	**0.96**	**0.98**	<0.1	<0.1	**4.8**	**4.6**	<5	<0.5	<0.1	**0.15**	<20	<20	**2**	**1.4**	<4	**1**
DOF-MW-8	11/9/12	13-18	6.4	48.8	**6**	**5.6**	<0.1	<0.1	**2**	**5**	**0.6**	**3.4**	**0.5**	**13.5**	<0.1	<0.1	**7**	**7.6**	<4	**11**
DOF-MW-8	11/20/15		6.8	15.6	**8.8**	**9.9**	<0.1	<0.1	**1.7**	**3**	**0.26**	**1.0**	**0.2**	**2.8**	<20	**15**	**4.5**	**5.2**	**0.6**	**3**
DOF-MW-8	3/22/16		6.4	16.1	**10.1**	**9**	**0.02**	**0.01**	**4**	**2.6**	**0.2**	**0.8**	**0.0**	**2.7**	<20	**11**	**5**	**5**	**1**	**1**
DOF-MW-8	9/30/16		6.4	25.7	**9.5**	**9.6**	<0.1	<0.1	**1.4**	**2.3**	<0.5	**1.1**	<0.1	**3.1**	<20	<20	**4.7**	**5.1**	**1**	**3**

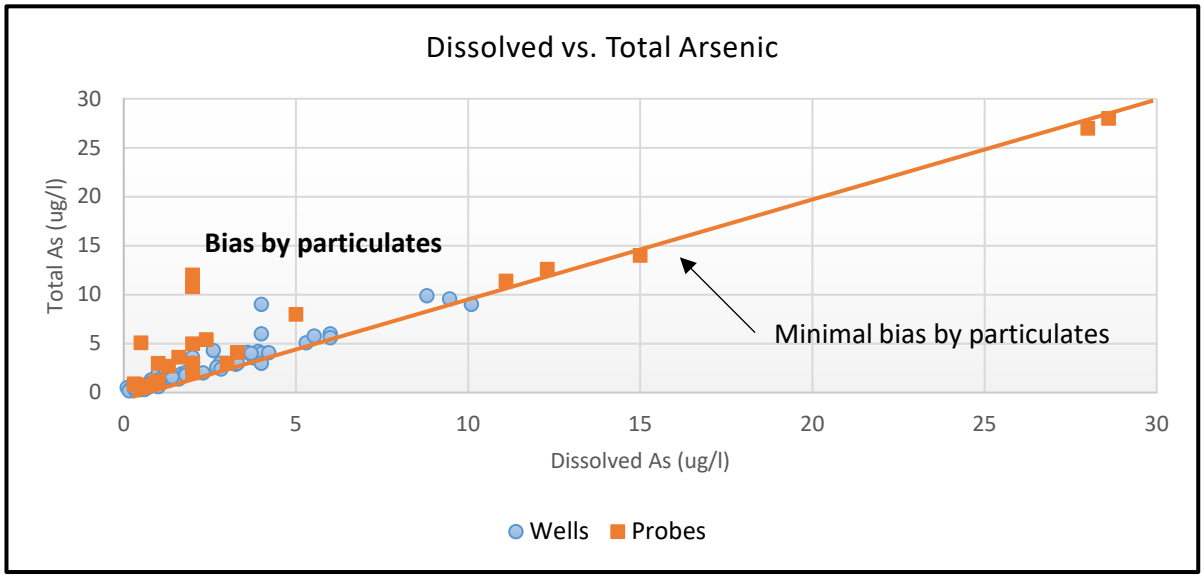
TABLE K.2 - Monitoring Well Metals Data

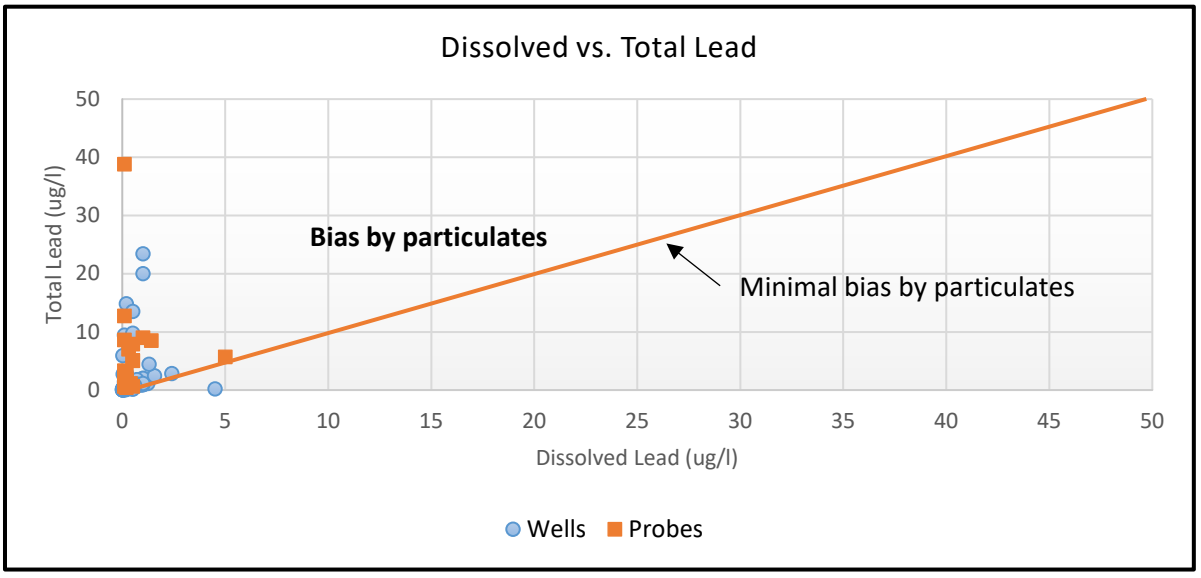
Location	Date	Screen Depth	Field Parameters		Arsenic		Cadmium		Total Chromium		Copper		Lead		Mercury		Nickel		Zinc	
			pH	Turbidity	7440-38-2		7440-43-9		7440-47-3		7440-50-8		7439-92-1		7439-97-6		7440-02-0		7440-66-6	
		(feet)	Std. Units	NTU	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Screening Level (SL)			-----	-----	8	8	1.2	1.2	27	27	3.1	3.1	8.1	8.1	25	25	8.2	8.2	81	81
HC-B1	11/13/12	16-21	8.0	5.1	**4**	**4**	<0.5	<0.5	**6**	**6**	<2	<2	<0.5	<0.5	<0.1	<0.1	**6**	**7**	<20	<20
HC-B1	11/19/15		8.3	5.9	**0.45**	**0.3**	**0.05**	<1	**2.8**	**3**	**0.3**	<5	**0.06**	**0.04**	<20	<20	**0.3**	**0.3**	**1.1**	<40
HC-B1	3/24/16		7.7	4.6	**0.8**	**0.8**	**0.05**	**0.05**	**4**	**6**	**0.3**	**0.5**	**0.2**	**0.3**	**3**	<20	**0.40**	**0.4**	<20	**5**
HC-B1	9/30/16		7.5	6.8	**0.64**	**0.5**	<1.0	<2.0	**2.4**	**2.3**	<5	<10	<1.0	<2.0	<20	<20	**0.50**	**2.4**	<40	<80
HC-B2(R)	11/11/15	4.5-9.5	7.4	15.9	**2.7**	**2.6**	**0.03**	**0.04**	**0.5**	**0.3**	**0.4**	**0.4**	**0.03**	**0.2**	<20	**3.1**	**2.3**	**2.3**	**9**	**10**
HC-B2(R)	3/23/16		6.1	8.1	**0.1**	**0.5**	**0.1**	**0.1**	**0.2**	**1.4**	**2.7**	**3.6**	**0.02**	**5.9**	**3.0**	**20**	**2.3**	**2.5**	**16**	**19**
HC-B2R	9/30/16		ISV	ISV	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SA-MW1	11/23/15	4-24	7.6	16.8	**3.6**	**4.1**	<0.1	**0.02**	**13.5**	**20**	**1.8**	**3.3**	**1.0**	**2.0**	**16.6**	**51.5**	**10**	**10**	**2.3**	**5**
SA-MW1	3/24/16		8.7	15.4	**2.3**	**2**	<0.2	<0.2	**13**	**15**	**1**	**3**	**0.7**	**1.8**	**6**	**15**	**2**	**3**	**4**	**5**
SA-MW1	9/30/16		8.6	5	**4.2**	**4.1**	<0.1	<0.1	**25**	**29**	**1.5**	**2.7**	**1.6**	**2.4**	<20	<20	**3.2**	**3.4**	**6.9**	**8.6**
SA-MW2	11/9/12	2-24	6.7	5.1	**0.5**	<0.5	<0.1	<0.1	**2.5**	**5**	<2	**1.0**	<0.1	**0.6**	<0.1	<0.1	**4.7**	**4.1**	<4	<4
SA-MW2	11/20/15		6.5	5.2	**1**	**2**	**0.05**	<0.5	**3**	**3**	**0.4**	**1.0**	**0.1**	**0.6**	<20	**4.1**	**3**	**4**	**1.6**	**2**
SA-MW2	3/29/16		6.4	5.3	**3.7**	**4**	**0.01**	**0.02**	**5**	**6**	**0.3**	**0.7**	**0.1**	**0.8**	<20	**6.0**	**2.7**	**3**	**0.6**	**4**
SA-MW2	9/30/16		6.4	5.7	**1.3**	**1.5**	<1.0	**0.04**	**2.5**	**3.1**	<5	**0.54**	<1	**0.96**	<20	<20	**1.5**	**1.8**	<40	**3**
SA-MW3	11/13/12	2-24	5.9	37.1	**4**	**3**	<0.5	<0.5	**4**	**4**	**4**	**4**	<0.5	<0.5	<0.1	<0.1	**11**	**10**	**30**	-----
SA-MW3	11/19/15		7.9	64.4	**0.3**	**0.7**	**0.2**	**0.2**	**0.7**	**1.0**	**4.3**	**5**	**0.01**	**0.05**	**6.8**	**7.3**	**2.0**	**3**	**7**	**12**
SA-MW3	3/28/16		6.8	20.6	**0.4**	**0.7**	**0.02**	**0.04**	**1**	**2**	**4**	**5**	**0.08**	**0.2**	**9.0**	**10**	**0.8**	**0.9**	**9**	**4**
SA-MW3	9/27/16		6.5	31	**0.41**	**0.62**	**0.09**	**0.12**	**3.3**	**1.7**	**9.2**	**7.4**	<0.5	**0.12**	<20	**36**	**2.6**	**2.6**	**5.9**	**6.4**
MW-Du	11/18/15	11-21	7.6	16.3	**1.4**	**1.6**	**0.01**	<0.1	**8.3**	**10**	**3.1**	**4**	**0.7**	**1.0**	**5.9**	**6.6**	**1.7**	**2.1**	**5**	**6**
MW-Du	3/28/16		6.4	16.6	**1.8**	**2**	**0.0**	**0.01**	**10**	**13**	**3**	**4**	**0.3**	**1.2**	**4**	**17**	**0.80**	**1.0**	**3**	**2**
MW-Du	10/1/16		6.4	5.6	**1.8**	**2.1**	<0.1	<0.1	**11**	**12**	**4.1**	**4.7**	**0.29**	**0.62**	<20	<20	**0.74**	**1.3**	**1**	**5.2**
MW-Eu	11/19/15	4.5-14.5	8.3	11.1	**2**	**3**	<1	**0.05**	**1.6**	**13**	**0.5**	**8**	**1.0**	**23.4**	**4.4**	**48.7**	**3**	**8**	**3.4**	**27**
MW-Eu	3/24/16		6.8	17.5	**3**	**3**	**0.1**	**0.05**	**4**	**9**	**0.4**	**2**	**0.1**	**9.4**	**5**	**15**	**2.0**	**3**	<40	**16**
MW-Eu	9/30/16		6.8	19	**2.8**	**2.4**	<1.0	<1.0	**2.3**	**2.1**	<5	<5	<1	<1	<20	<20	**0.8**	**1.4**	<40	<40
MW-Fu	11/11/15	4.5-14.5	7.3	1.3	**0.7**	**0.7**	**0.03**	**0.02**	**0.25**	**0.2**	**2.2**	**2.2**	**0.01**	**0.01**	**5**	<20	**3.0**	**3**	**1.4**	**2**
MW-Fu	3/23/16		6.4	13	**0.2**	**0.2**	**0.02**	**0.02**	**0.20**	**0.20**	**2.1**	**1.9**	**0.01**	**0.01**	<20	<20	**1.3**	**1.3**	**1**	**0.7**
MW-Fu	9/28/16		6.5	52	**0.36**	**0.36**	**0.06**	**0.04**	**0.35**	**0.37**	**3.3**	**3.1**	<0.1	<0.1	<20	<20	**3.4**	**3.3**	**2**	**2**
MW-FL	11/10/15	19.5-29.5	7.3	13	**1.0**	**1.3**	<0.2	**0.01**	**19**	**21**	**0.8**	**2.1**	**0.09**	**0.4**	**2.7**	**6.4**	**1.0**	**3.1**	**0.96**	**2**
MW-FL	3/23/16		6.6	4	**0.9**	**1.0**	<0.5	**0.1**	**20**	**21**	**0.9**	**4**	**0.1**	**0.3**	**4.0**	**5.0**	**1.0**	**1.0**	**1**	**7**
MW-FL	9/28/16		6.6	6	**0.75**	**0.75**	<0.2	<0.1	**14**	**12**	<1	**0.75**	<0.2	**0.08**	<20	**49**	**0.82**	**1.4**	<8	**1**
MW-Gu	11/10/15	4.5-14.5	7.1	20.5	**0.8**	**0.9**	<0.1	**0.01**	**1.2**	**2**	**0.17**	**0.6**	**0.07**	**0.2**	<20	**5.9**	**0.7**	**1.8**	**1.9**	**3**
MW-Gu	3/23/16		6.5	11.1	**1.8**	**1.8**	<0.2	**0.01**	**3**	**3.3**	**0.8**	**1.3**	**0.3**	**0.5**	**3**	<20	**1**	**1.3**	**1**	**2**
MW-Gu	9/28/16		6.4	6.3	**0.71**	**0.55**	<0.1	<0.1	**0.85**	**0.80**	<10	**1.5**	<0.1	**0.14**	<20	<20	<10	**1.1**	**1**	**1**
MW-GL	11/10/15	19.6-29.6	7.3	27	**0.6**	**0.7**	<0.5	**0.01**	**1.4**	**2**	**0.18**	**1.0**	**0.03**	**0.1**	<20	**2.7**	**0.52**	**0.9**	**3.1**	**1**
MW-GL	3/23/16		6.7	1.1	**0.8**	**1**	**0.05**	**0.05**	**3**	**4**	**0.3**	**0.4**	**0.05**	**0.2**	<20	<20	**0.40**	**0.4**	<20	**6**
MW-GL	9/28/16		6.5	2.7	**1**	**0.6**	<1.0	<1.0	**2.5**	**0.90**	<5	<10	<1.0	<1.0	<20	<20	<5	<10	<40	<40
MW-HL	11/18/15	19.6-29.6	7.5	6	**0.25**	**0.3**	<0.5	<0.2	**2**	**2**	**0.35**	**0.4**	**1.0**	**1.1**	**7**	**6.7**	**0.28**	**0.7**	**2.6**	**3**
MW-HL	3/29/16		6.3	10.4	**0.2**	**0.4**	<0.2	<0.5	**2.0**	**3**	**0**	**0.7**	**0.04**	**0.3**	<20	**10**	**0.20**	**0.4**	**3**	**6**
MW-HL	9/27/16		6.3	4.2	**0.16**	**0.19**	<0.1	<0.1	**2**	**1.0**	<2.5	**2.4**	<0.5	**0.1**	<20	<20	<2.5	**0.23**	**1**	**1**

TABLE K.2 - Monitoring Well Metals Data

Location	Date	Screen Depth	Field Parameters		Arsenic		Cadmium		Total Chromium		Copper		Lead		Mercury		Nickel		Zinc	
			pH	Turbidity	7440-38-2		7440-43-9		7440-47-3		7440-50-8		7439-92-1		7439-97-6		7440-02-0		7440-66-6	
		(feet)	Std. Units	NTU	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L	diss. ng/L	total ng/L	diss. µg/L	total µg/L	diss. µg/L	total µg/L
Screening Level (SL)			-----	-----	8	8	1.2	1.2	27	27	3.1	3.1	8.1	8.1	25	25	8.2	8.2	81	81
MW-IL	11/20/15	24.5-34.5	7	10.6	**0.4**	**0.4**	<1.0	<0.5	**3**	**4**	**0.4**	**0.8**	**0.1**	**0.3**	<20	**5.1**	**0.5**	**0.5**	**1.6**	**1**
MW-IL	3/28/16		6.4	9.3	**0.7**	**0.8**	<0.5	**0.05**	**5**	**6**	**0.3**	**0.6**	**0.1**	**0.5**	**13**	**37**	**1**	**1**	**11**	**11**
MW-IL	9/27/16		6.3	3.3	**0.33**	**0.31**	<0.1	0.1	**3.2**	**1.9**	<2.5	<0.5	<0.5	**0.07**	<20	**140**	**0.60**	**0.56**	**1**	**1**
MW-Ju	11/20/15	5-15	7	43	**2.0**	**2.2**	**0.01**	**0.02**	**2.5**	**3**	**1.2**	**2.0**	**2.4**	**2.8**	**15**	**13**	**4.6**	**5**	**2.6**	**3**
MW-Ju	3/28/16		6.3	6	**3.3**	**3**	<0.2	**0.0**	**2**	**2**	**1**	**3**	**1.3**	**4.4**	**7**	**13**	**3.0**	**3**	**19**	**30**
MW-Ju	9/27/16		6.3	22	**1.2**	**2.5**	<0.1	**0.12**	**2**	**3.4**	<2.5	**5.0**	<0.5	**9.8**	<20	**59**	**1**	**2.9**	**1**	**48**
MW-Ku	11/10/15	4.5-14.5	6.5	14.9	**0.4**	**0.5**	**0.02**	**0.03**	**0.42**	**0.6**	**3.0**	**3.3**	**0.02**	**0.05**	<20	<20	**3.6**	**3.6**	**2.7**	**3**
MW-Ku	3/22/16		6.4	12.2	**0.5**	**0.7**	**0.1**	**0.07**	**0.5**	**0.9**	**2.7**	**3**	**0.01**	**0.2**	<20	<20	**3.1**	**3**	**10**	**11**
MW-Ku	9/28/16		6.5	12.7	**1.1**	**1.2**	<0.2	**0.04**	**1.5**	**1.4**	**1.5**	**2.0**	<0.2	**0.07**	<20	<20	**2.8**	**3.9**	**5**	**3**
MW-KL	11/10/15	19.7-29.7	7.5	22.8	**0.3**	**0.5**	<0.2	**0.01**	**3**	**3**	**0.7**	**1.5**	**0.6**	**0.8**	**3.6**	**5.8**	**0.6**	**1.0**	**1.8**	**18**
MW-KL	3/22/16		6.8	2.2	**0.5**	**0.3**	<0.5	**0.05**	**3**	**3**	**0.20**	**0.40**	**0.05**	**0.20**	<20	**5.0**	**0.5**	**0.5**	<20	**3**
MW-KL	9/28/16		6.7	2.7	**0.6**	**0.30**	<1.0	<1.0	**3.6**	**1.3**	<5	**1.2**	<1.0	<1.0	<20	<20	**0.9**	**1.3**	**17**	**1**

Notes: < - Not detected at indicated reporting limit
Less than values were assumed at the reporting limit in calculating concentration averages
- Concentration exceeds screening level
Bold value = Detected concentration





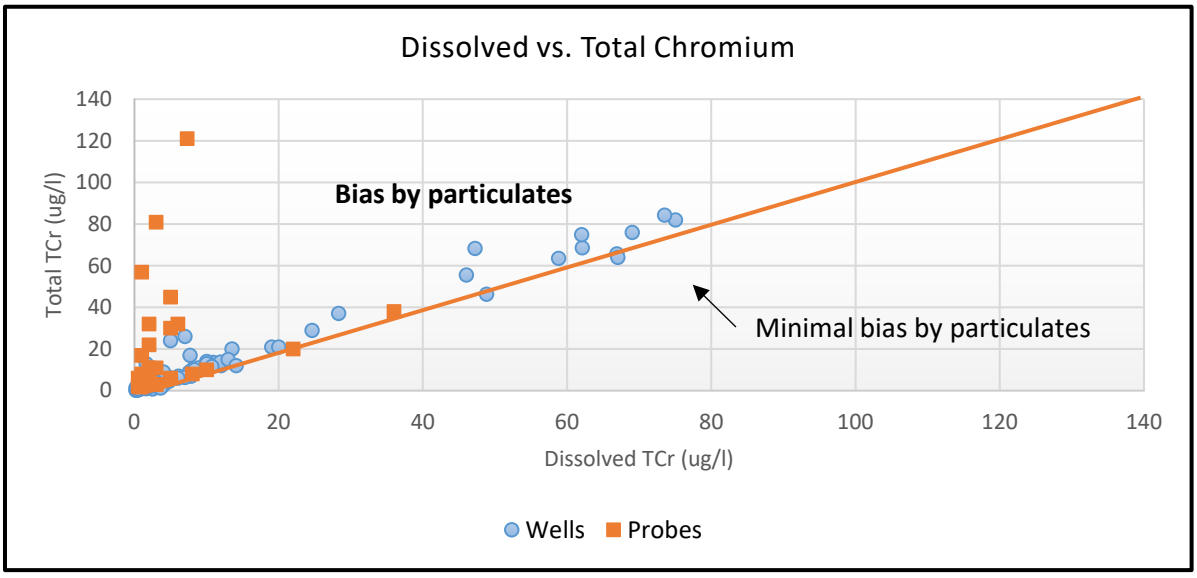
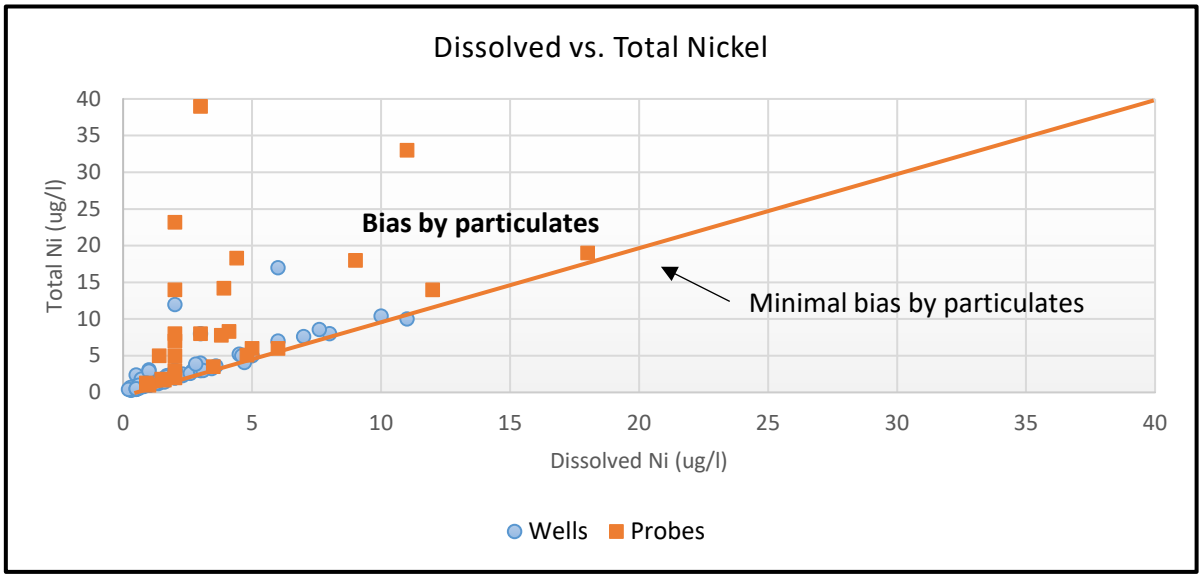
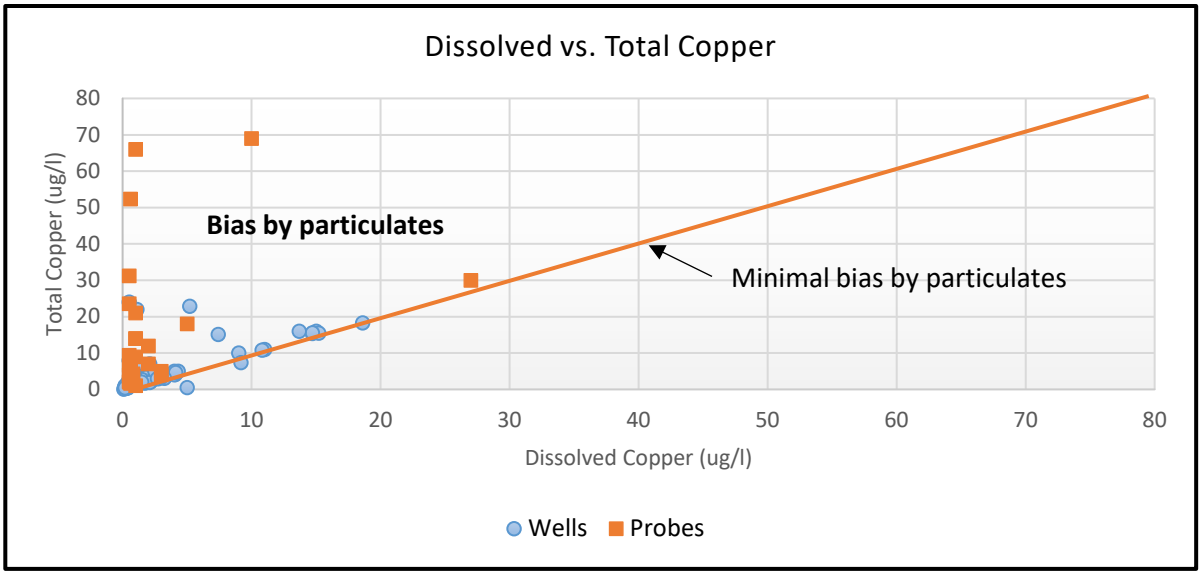


FIGURE K-1 - Total vs. Dissolved Metals Concentrations





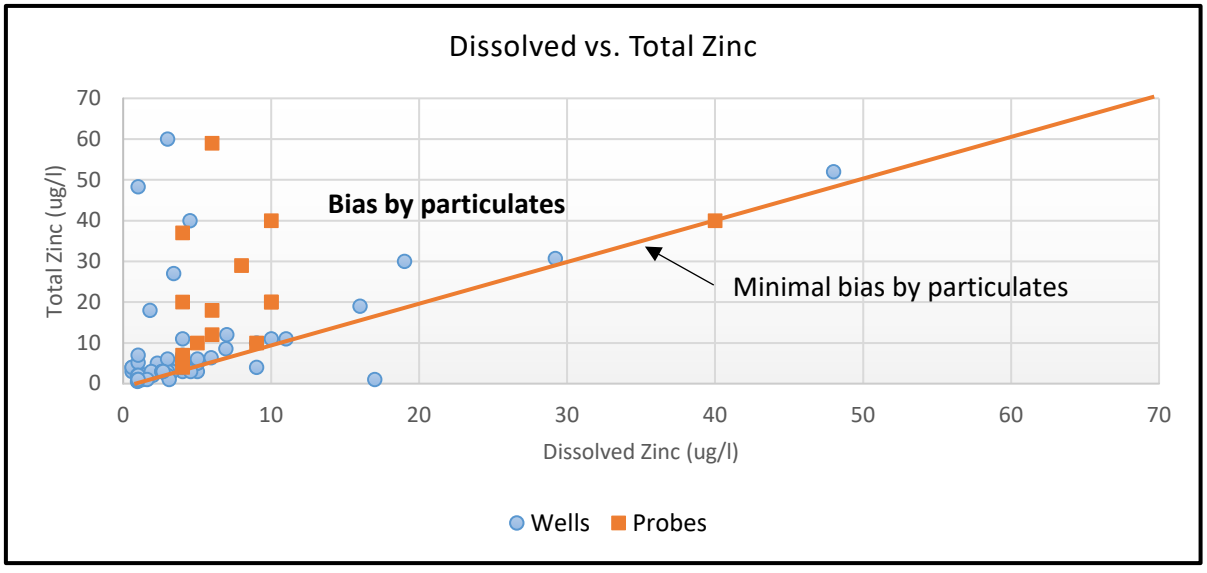
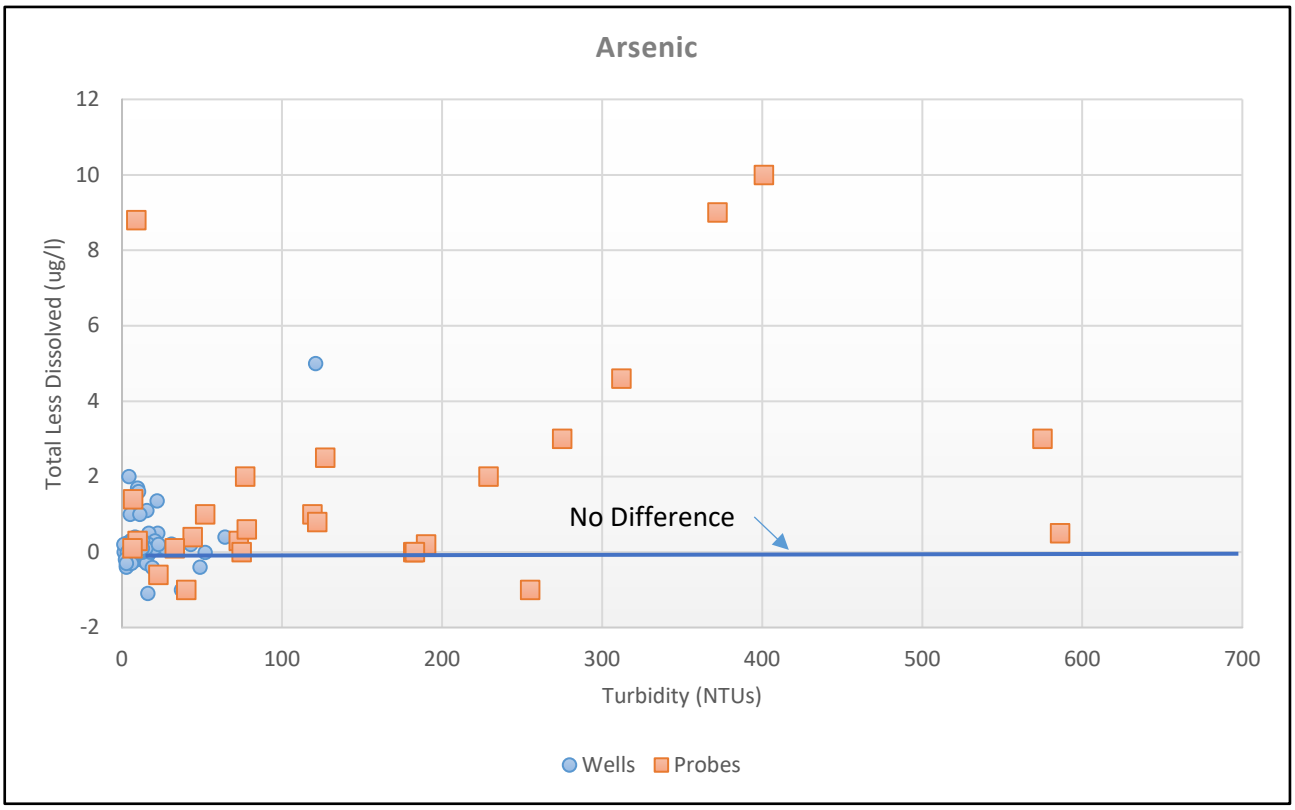


FIGURE K-1 - Total vs. Dissolved Metals Concentrations



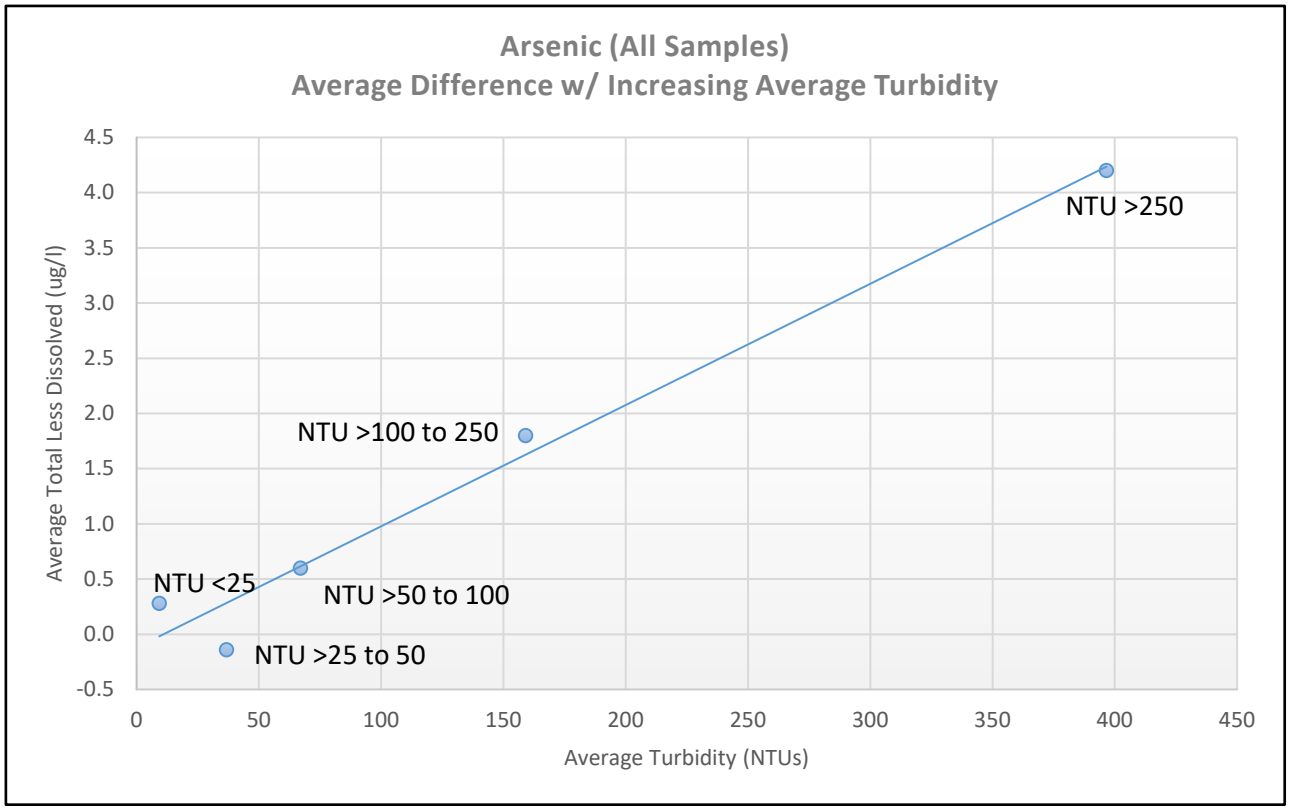


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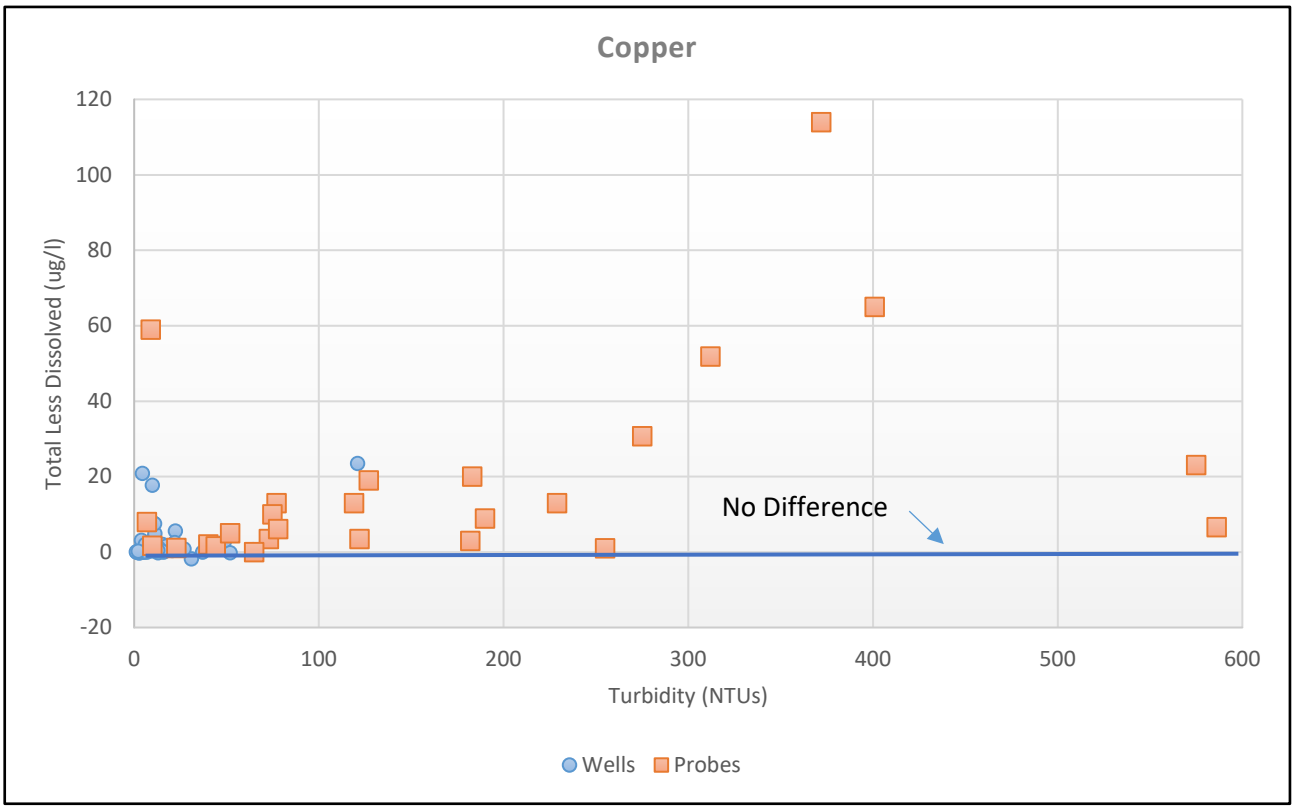
FIGURE K-2 Total vs Dissolved Arsenic



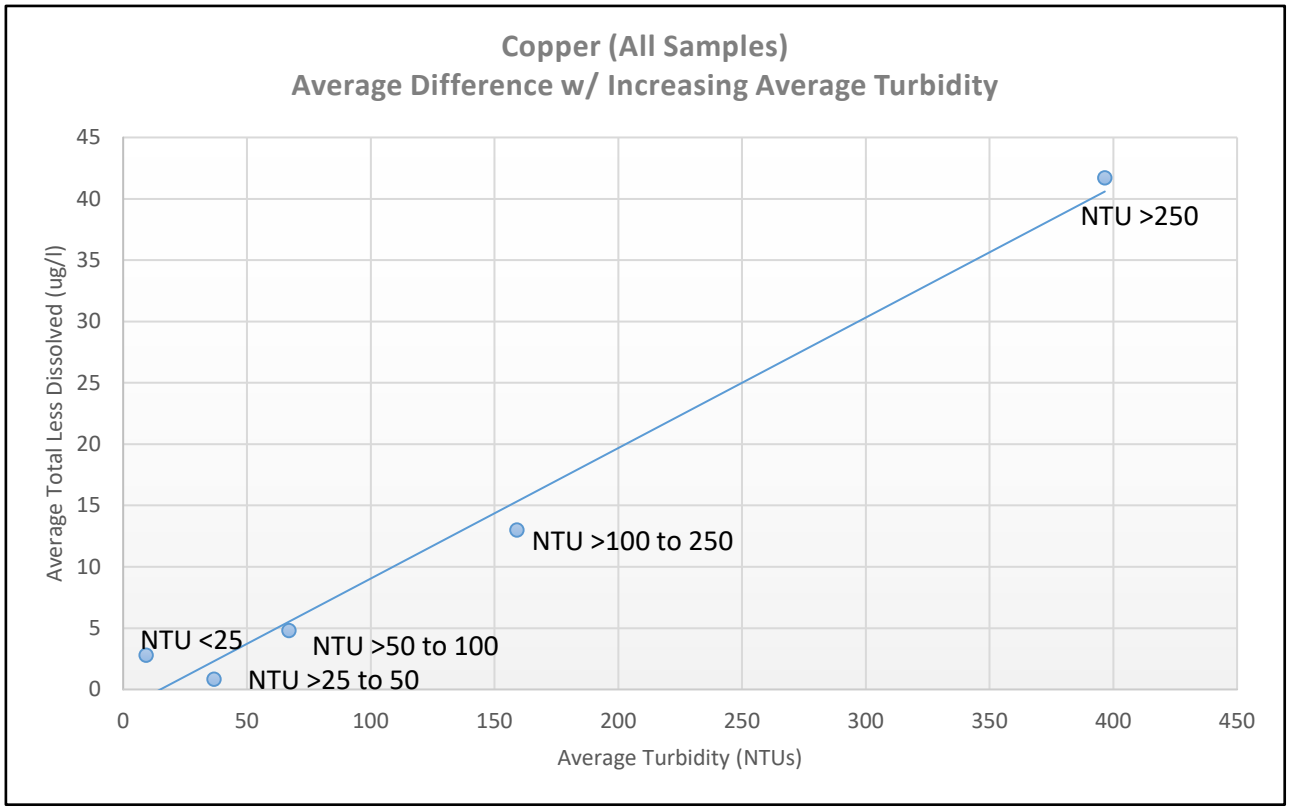


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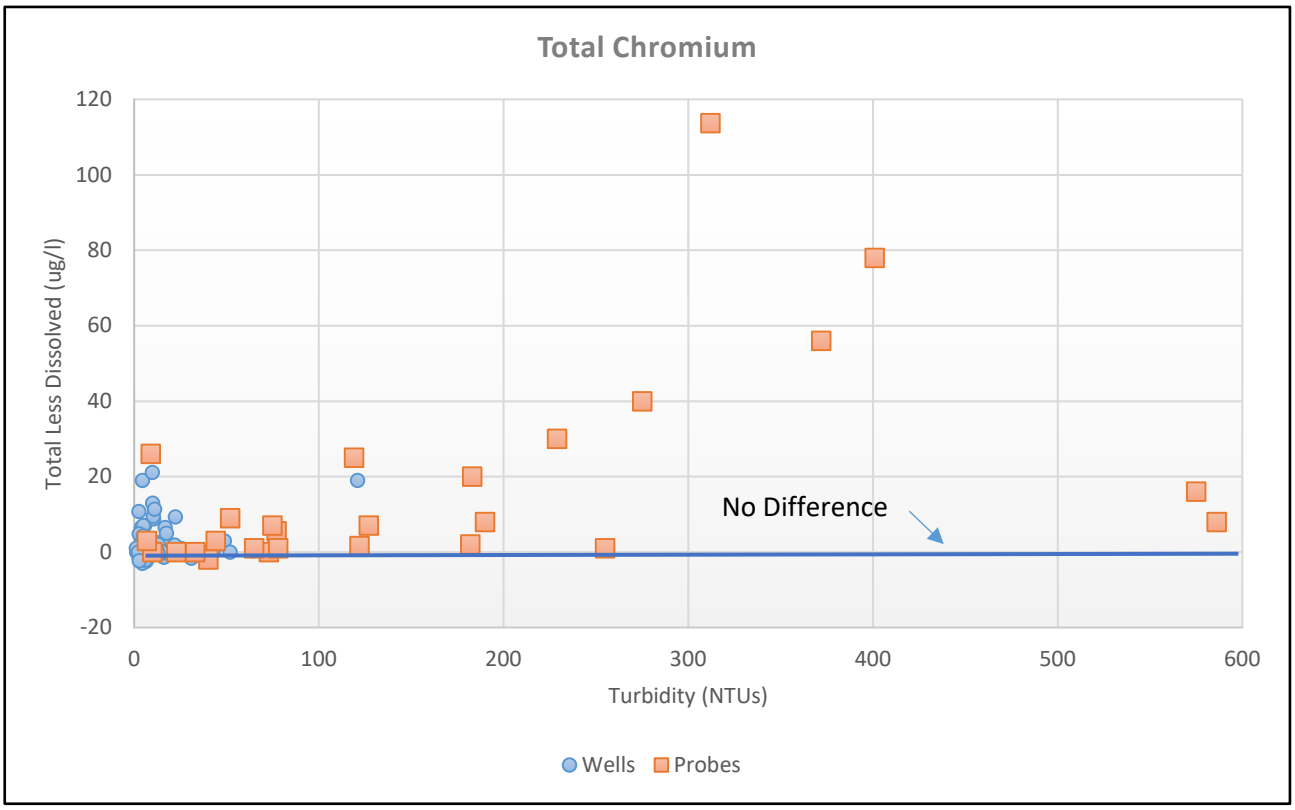
FIGURE K-3 Total vs Dissolved Copper



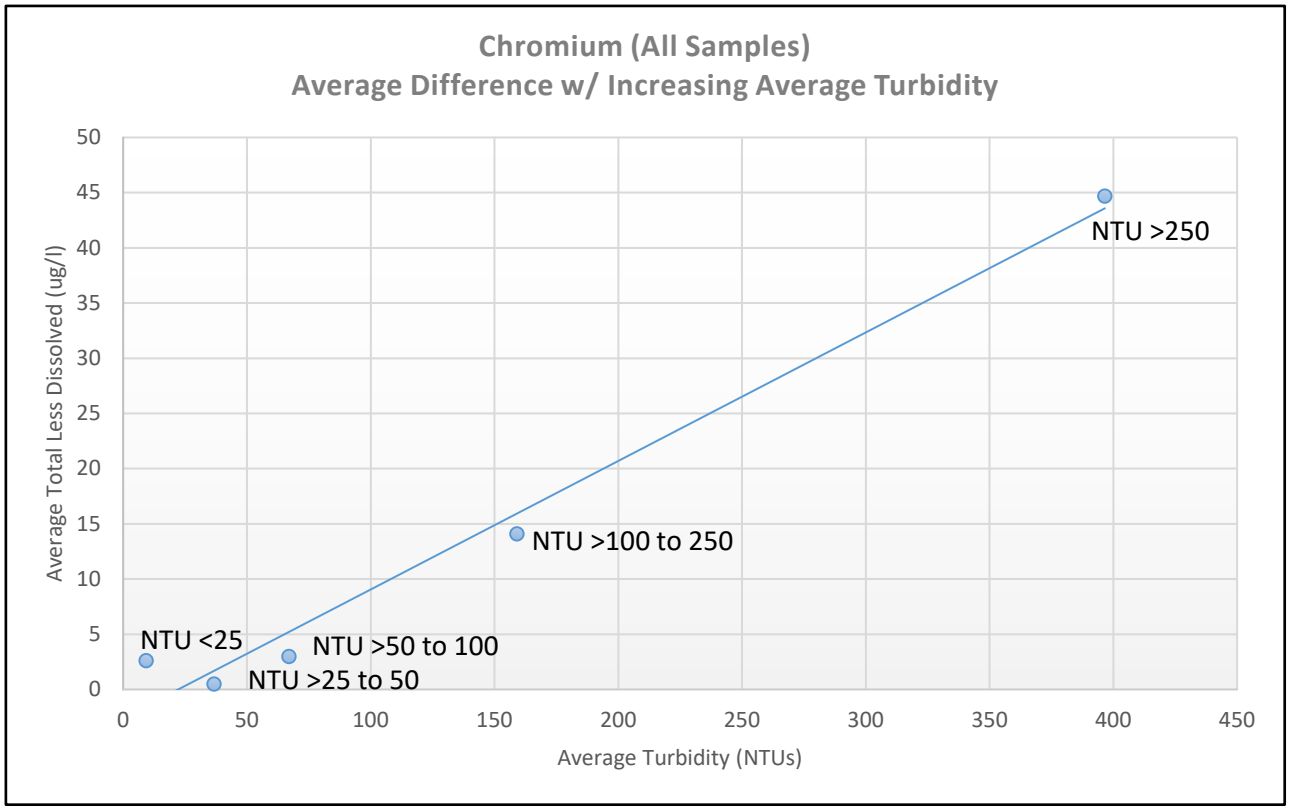


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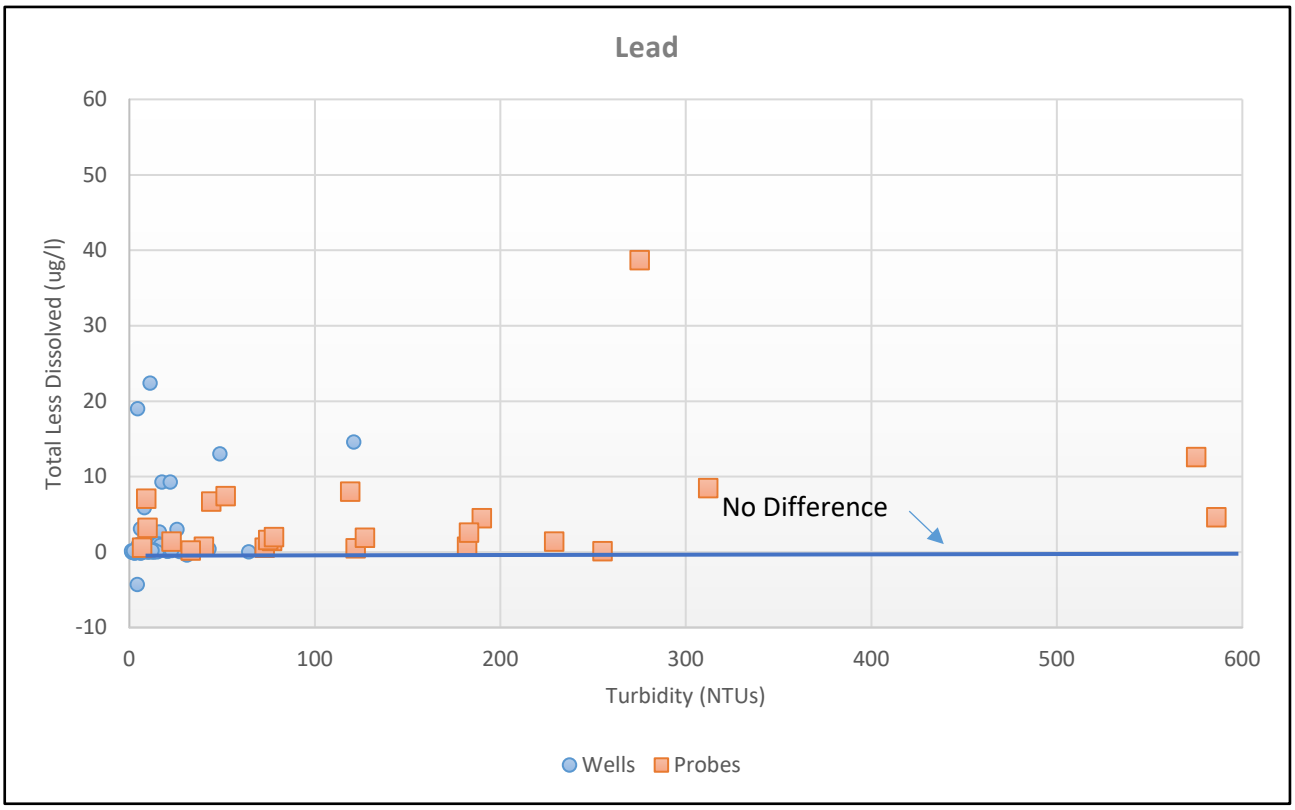
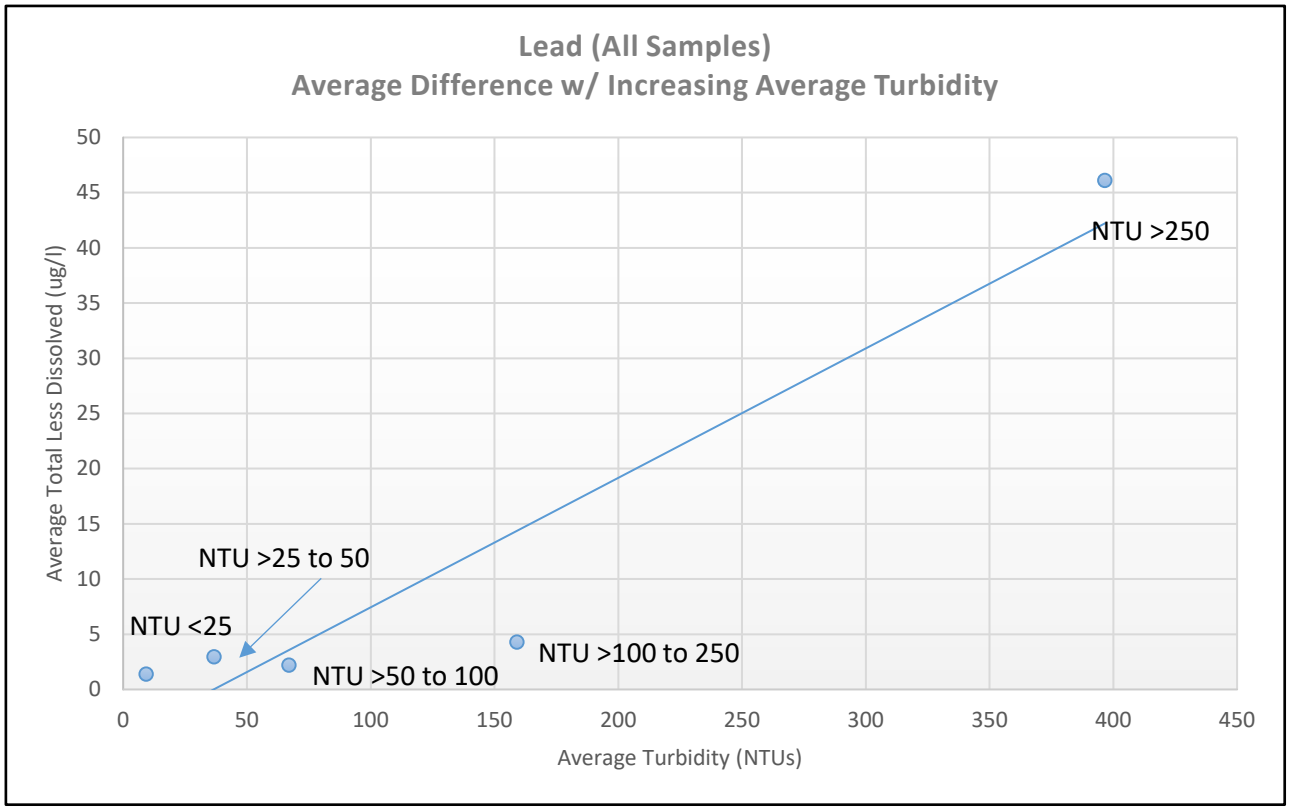
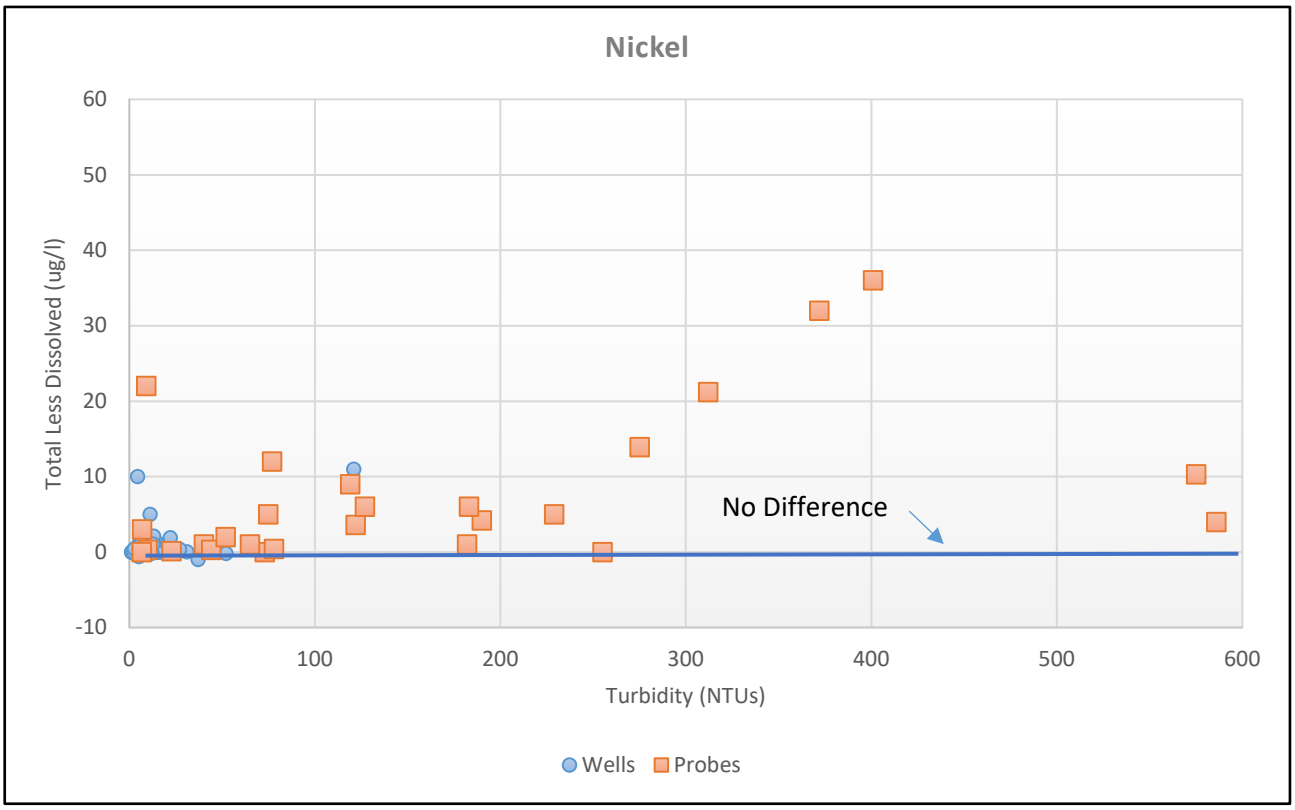
FIGURE K-4 Total vs Dissolved Total Chromium

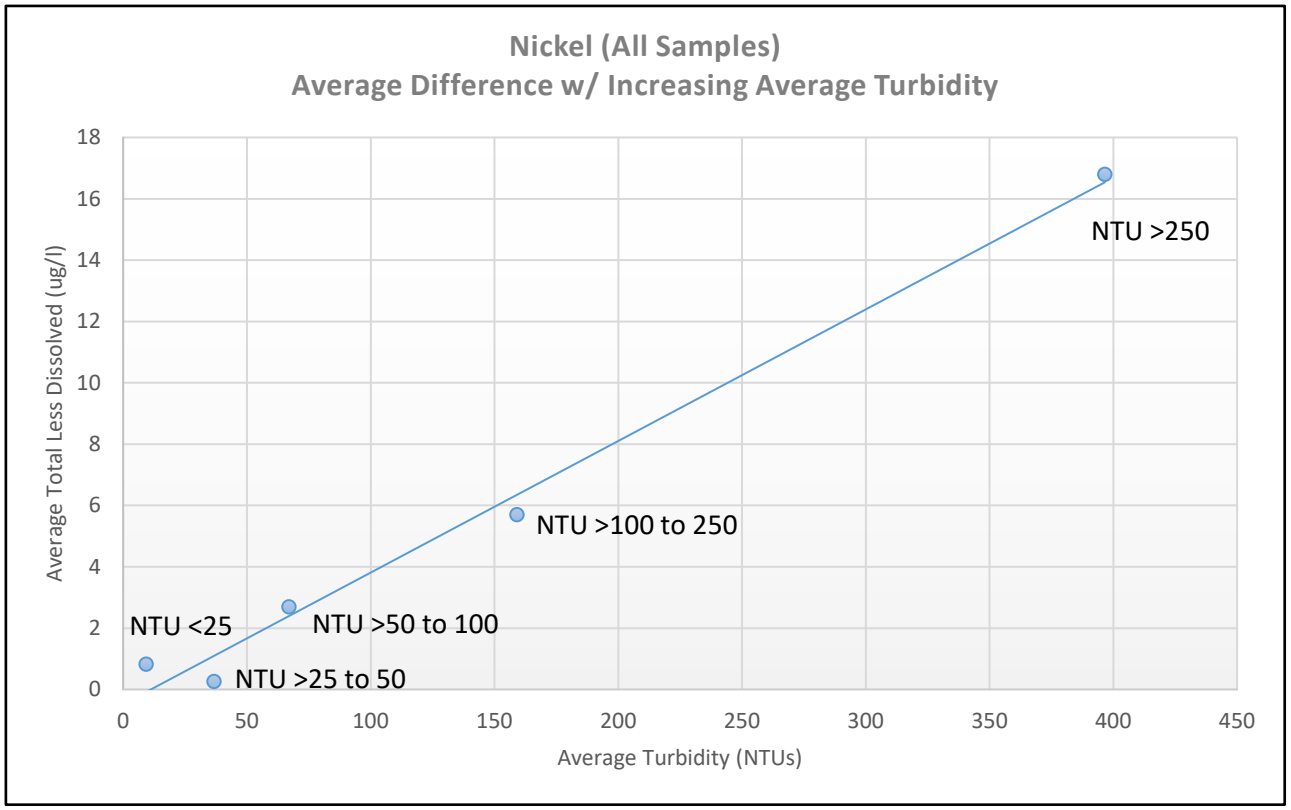




Dalton, Olmsted Fuglevand, Inc. (Data Analysis T D Metals.xlsx-Pb(2))

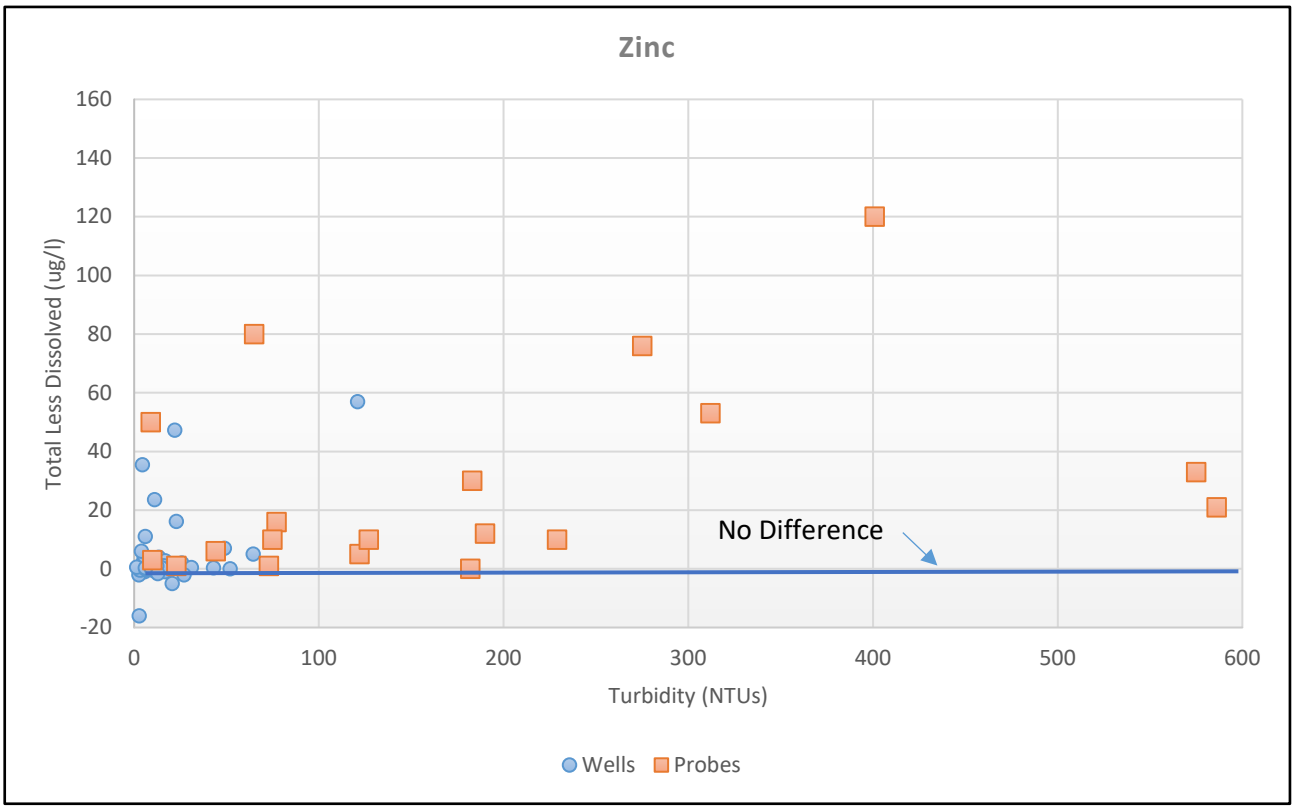
FIGURE K-5 Total vs Dissolved Lead





Dalton, Olmsted Fuglevand, Inc. (Data Analysis T D Metals.xlsx-Ni(2))

FIGURE K-6 Total vs Dissolved Nickel



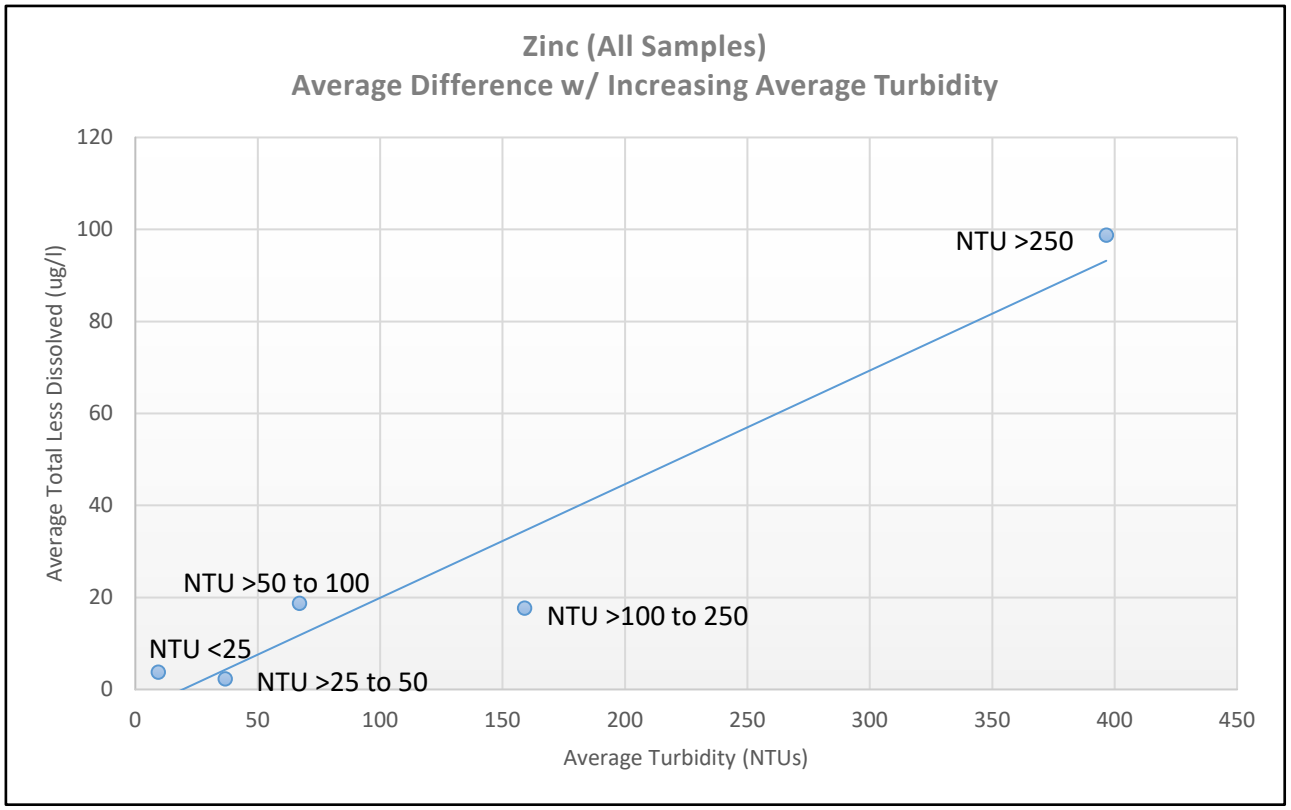


FIGURE K-7 Total vs Dissolved Zinc