

Tables

Table 1

Summary of Groundwater Analytical Results - Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS)

Limited Groundwater Assessment Park Drive Disposal Area

Spokane International Airport

			EPA-PFC/537M	
Well ID	Sample Date	Depth to Water	PFOA (ng/L)	PFOS (ng/L)
MW-1A	2/28/2019	14.35	10	5.9
MW-1B	2/28/2019	13.23	27	12
Groundwater Screening Level (ng/L) ¹			70	70

Notes:

¹ Groundwater screening levels were obtained from EPA's "Fact Sheet, PFOA & PFOS Drinking Water Health Advisories," dated November 2016.

Values in **bold** font indicate that the result reported meets or exceeds the groundwater screening level.

Depth to water measured from top of casing.

ng/L - nanogram per liter

PFOA - perfluorooctanoic acid

PFOS - perfluorooctane sulfonic acid

Samples analyzed by ALS Global Laboratories, Kelso, Washington.

Table 2
 Summary of Groundwater Analytical Results - Conventional Chemistry
 Limited Groundwater Assessment Park Drive Disposal Area
 Spokane International Airport

Sample ID	Date Sampled	Depth to Water	EPA-8260C					NWTPH-Dx		EPA-6020B
			Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Total Xylenes ug/L	TCE ug/L	DRO mg/L	RRO mg/L	Arsenic mg/L
MW-1A	2/28/2019	14.35	<0.40	<1.0	<1.0	<3.0	<1.0	<0.23	<0.39	<0.0050
MW-1B	2/28/2019	13.23	<0.4	<1.0	<1.0	<3.0	<1.0	<0.23	<0.38	<0.0050
MTCA Method A Cleanup Level ^a			5	1000	700	1000	5	0.5	0.5	0.005
Notes: a: MTCA = Model Toxics Control Act Method A cleanup level for unrestricted use. Method B value used where Method A value not established. DRO = Diesel-Range Organics. RRO = Residual-Range Organics. BTEX = benzene, toluene, ethylbenzene, (total) xylenes. TCE = Trichloroethylene ND = Analyte not detected at a concentration exceeding Method Reporting Limit (MRL). MRL is less than MTCA Method A Cleanup Criteria. BOLD = Exceedance of cleanup level. Samples Analyzed by TestAmerica, Spokane, WA										

Attachment – A

Boring Logs

ECOVA Corporation							Well Number <u>MW-1A</u>	
Well Installation Log							Date Drilled <u>5-10-90</u>	
Client - <u>Army Corps of Engineers</u>			Drilling Company <u>Fagle Pump & Supply</u>		Coordinates <u>246870 5625 N</u>			
Site <u>SP Site (Task 6)</u>			Boring Method <u>Air Rotary</u>		Coordinates <u>2460128 4101 E</u>			
Job Number <u>801126</u>			Borehole Depth <u>83 Feet</u>		Casing Elevation <u>2319.00'</u>			
Field Geologist <u>R.M. Weber</u>			Water Depth <u>13 Feet</u>		Sheet <u>1</u> of <u>2</u>			
Depth (Feet)	Blow Counts	Sample No.	Recover	Organic Vapor (ppm)	* LEL	% O ₂	General: 50 feet 6" steel casing, pressure grout.	Graphic Log
							Sample Description	
5							SILTY SAND (SM) - Fine- to coarse-grained sand, brown, with black basalt cuttings, damp.	
10							BASALT - Fresh, light gray, dry.	
15							Basalt - Fresh, dark gray, dry. Hard drilling.	
							▽ Static water level at 13 Feet.	
20							BASALT - Alternating light and dark gray, dry.	
25							Dry, hard drilling.	
30							BASALT - Gray, with white and orange fragments, easier drilling, damp.	
35							WEATHERED BASALT - Same as above with minor clay, sand, and gravel.	
40							Water yielding zone at 40 feet.	
45							BASALT - Fractured, weathered, orange and white fragments, some clays, sand and gravel.	
50							BASALT - Dark gray.	

1990 ECOVA Corporation

801126-A-MW1A

* Background = 0 ppm

5 1991

ECOVA Corporation

Well Installation Log

Client Army Corps of EngineersSite SP Site (Task 6)Job Number 801126Field Geologist R.M. WeberDrilling Company Fogle Pump & SupplyBoring Method Air RotaryBorehole Depth 83 FeetWater Depth 13 FeetWell Number MW-1ADate Drilled 5-10-90Coordinates 246670 5625 N2460128 4101 ECasing Elevation 2319.00Sheet 2 of 2

Depth (Feet)	Blow Counts	Sample No.	Recover	Organic Vapor (ppm)	% LEL	% O ₂	General: 50 feet 6" steel casing, pressure grout.	Graphic Log
							Sample Description	
55							BASALT - Black, no water, good seal on conductor casing.	
60							BASALT - Black, with dark gray clay, damp.	
65							SILT AND CLAY WITH GRAVEL (GM/GC) - Black, damp. Color change to dark brown.	
70							Color change to brown with increase in white and orange fragments, predominately clay.	
75							WEATHERED BASALT - Black-gray, with orange and white clasts, soft drilling, damp. Water yielding zone at 75 feet.	
80							WEATHERED BASALT - Black-gray, with abundant orange and white fragments, soft drilling.	
85							BASALT - Dark gray, hard.	
90							Bottom of Hole - 83 Feet	
95								
100								

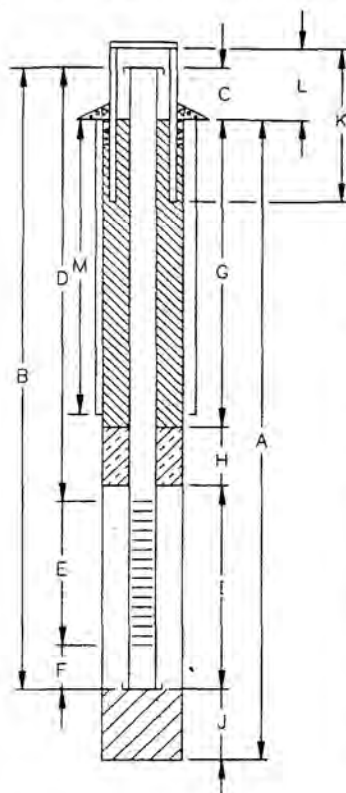
1990 ECOVA Corporation

801126-A-MW1A

* Background = _____ ppm

FEB 6 1991

WELL COMPLETION MW-1A



TOP OF CASING ELEVATION 2319.00'

A BORING DEPTH 83 FT.
BORING DIAMETER 6 IN.
B WELL DEPTH 79.3 FT.
C WELL STICKUP 1 FT.
D BLANK INTERVAL 66 FT.
BLANK DIAMETER 2 IN.
E SCREEN INTERVAL 65-75' FT.
SCREEN DIAMETER 2 IN.
TYPE/SLOT SIZE 0.01
F SEDIMENT TRAP 5 FT.
G ANNULAR SEAL 54 FT.
MATERIAL GROUT
H. BENTONITE SEAL 6 FT.
I. SANDPACK 18 FT.
TYPE/SIZE 20/40
J. BOTOM SEAL/PACK 2 FT.
MATERIAL SAND
K WELL COVER FT.
L STICKUP FT.
M CONDUCTOR CASING 50 FT.

NOT TO SCALE

DRILLING TIMES:

START 0800 - 5/10/90 FINISH 1100 - 5/11/90

STANDBY or DOWN TIME:

METHOD OF DECON. PRIOR TO DRILLING:

DEVELOPMENT

METHOD OF DEVELOPMENT: DISPLACEMENT PUMPING @ 70 CYCLES/SEC

PUMP TIME 0305 TO 0500 DATE 5/17/90

TURBIDITY AFTER DEVELOPMENT: ☒ CLEAR ☐ MOD. TURBID
☐ SL. TURBID ☐ TURBID

ODOR IN WATER ?

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ STORAGE TANK
☐ STORM SEWERS ☐ TANK TRUCK
☒ 3 DRUMS

DEPTH OF WATER AFTER DEVELOPMENT: 6'

MATERIALS USED

4 1/2 SACKS of 20/40 SAND
7 SACKS of PORTLAND CEMENT
SACKS of PREMIX CONCRETE
GALLONS of GROUT USED
GROUT COMPOSITION #6 BENTONITE
1 SACKS of BENTONITE PELLETS
BUCKETS of BENTONITE PELLETS
YARDS CEMENT - SAND USED
3 CENTRALIZERS at 31, 59, AND 78.5' BGS

WELL COVER USED: ☒ Above Grade
☐ At Grade
☐ Other
☒ Lockable

FEB 6 1991

ECOVA Corporation

Well Installation Log

Client: Army Corps of EngineersSite: SP Site (Task 6)Job Number: 801126Field Geologist: R.M. WeberDrilling Company: Fogle Pump & SupplyBoring Method: Air RotaryBorehole Depth: 65.5 FeetWater Depth: 5 FeetWell Number: MW-1BDate Drilled: 5-8-90Coordinates: 245670.3593N2460138.2368ECasing Elevation: 2318.63Sheet: 1 of 2

Depth (Feet)	Blow Counts	Sample No.	Recover	Organic Vapor (ppm)	% LEL	% O ₂	General: 6" steel casing to 5 feet.	Graphic Log
							Sample Description	
5							SILTY SAND (SM) - Fine- to coarse-grained sand, brown, black basalt gravel. ▽ Static water level at 5 feet. BASALT - Fresh, gray, dry.	
10							BASALT - Fresh, dark gray - water at 12 feet. Water yielding zone at 12 feet.	
15							BASALT - Light gray, cuttings are fine and powdery, very hard, dry.	
20								
25								
30							BASALT - Dark gray, softer drilling, damp.	
35								
40							Water yielding zone at 30 feet. WEATHERED BASALT - Dark gray, orange, and white fragments, minor clay and sand, soft.	
45								
50								

1990 ECOVA Corporation

801126-A-MW1B

* Background = 0 ppm

FEB 6 1991

ECOVA Corporation

Well Installation Log

Client Army Corps of Engineers

Site SP Site (Task 6)

Job Number 801126

Field Geologist R.M. Weber

Drilling Company Fogle Pump & Supply

Boring Method Air Rotary

Borehole Depth 65.5 Feet

Water Depth 12/39 Feet

Well Number MW-1B

Date Drilled 5-8-90

Coordinates 246670.3593N

2460138.2368E

Casing Elevation 2318.63

Sheet 2 of 2

Depth (Feet)	Blow Counts	Sample No.	Recover	Organic Vapor (ppm)	LEL	O ₂	General:	Graphic Log
							Sample Description	
55							<p>BASALT - Dark gray, hard.</p> <p>Bottom of Hole - 65.5 Feet</p>	
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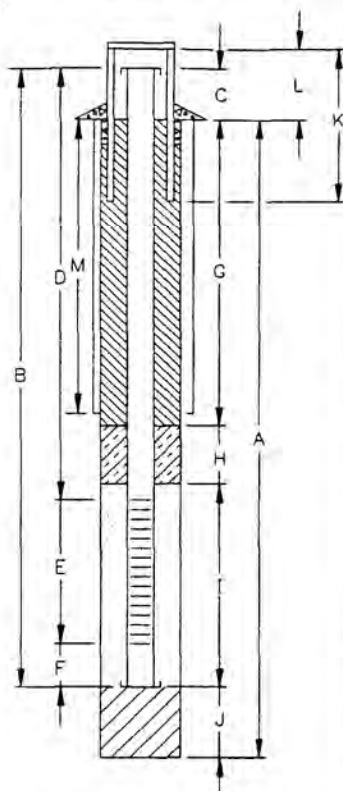
1990 ECOVA Corporation

801126-A-MW1B

* Background = 0 ppm

RECEIVED
FEB 6 1991

WELL COMPLETION MW-1B



TOP OF CASING ELEVATION 2318.63 FT.

A BORING DEPTH 65.5 FT.
BORING DIAMETER 6 IN.
B WELL DEPTH 50.0 FT.
C WELL STICKUP 0.5' FT.
D BLANK INTERVAL 66 FT.
BLANK DIAMETER 2 IN.
E SCREEN INTERVAL 2.5-32.5 FT.
SCREEN DIAMETER 2 IN.
TYPE/SLOT SIZE 0.01
F SEDIMENT TRAP 5 FT.
G ANNULAR SEAL FT.
MATERIAL: GROUT
H. BENTONITE SEAL FT.
I SANDPACK FT.
TYPE/SIZE: 20/40
J BOTTOM SEAL/PACK 2 FT.
MATERIAL: SAND
K WELL COVER FT.
L STICKUP FT.
M CONDUCTOR CASING FT.

NOT TO SCALE

DRILLING TIMES:

START 1245 5/8/90 FINISH 1504 5/8/90

STANDBY or DOWN TIME:

METHOD OF DECON. PRIOR TO DRILLING:

DEVELOPMENT

METHOD OF DEVELOPMENT: DISPLACEMENT PUMPING 60 CYCLES/SEC

START TIME 0820 TO 0120 DATE 5/17/90

TURBIDITY AFTER DEVELOPMENT: CLEAR MOD. TURBID
 SL. TURBID TURBID

ODOR IN WATER ? NONE

WATER DISCHARGED TO: GROUND SURFACE STORAGE TANK
 STORM SEWERS TANK TRUCK
 DRUMS

DEPTH OF WATER AFTER DEVELOPMENT: 6 FEET

MATERIALS USED

9.5 SACKS of 20/40 SAND
4.5 SACKS of PORTLAND CEMENT
 SACKS of PREMIX CONCRETE
 GALLONS of GROUT USED
 GROUT COMPOSITION #6 BENTONITE
 SACKS of BENTONITE PELLETS
 BUCKETS of BENTONITE PELLETS
 YARDS CEMENT - SAND USED
2 CENTRALIZERS at 15' AND 36' BGS

WELL COVER USED: Above Grade
 At Grade
 Other
 Lockable

Attachment – B

Analytical Results



March 20, 2019

Service Request No:K1901784

Gary Panther
Spokane Environmental Solutions, LLC
3810 E. Boone Avenue, Ste 101
Spokane, WA 99202

Laboratory Results for: Borrow Pit

Dear Gary,

Enclosed are the results of the sample(s) submitted to our laboratory March 01, 2019
For your reference, these analyses have been assigned our service request number **K1901784**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3275. You may also contact me via email at Chris.Leaf@ALSGlobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Chris Leaf
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Spokane Environmental Solutions, LLC
Project: Borrow Pit
Sample Matrix: Water

Service Request: K1901784
Date Received: 03/01/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 03/01/2019. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Organic LC:

Method PFC/537M, 03/08/2019: Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Approved by



Date

03/20/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1A			Lab ID: K1901784-001			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Perfluorooctane sulfonic acid (PFOS)	10			4.2	ng/L	PFC/537M
Perfluorooctanoic acid (PFOA)	5.9			1.7	ng/L	PFC/537M

CLIENT ID: MW-1B			Lab ID: K1901784-002			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Perfluorooctane sulfonic acid (PFOS)	27			4.2	ng/L	PFC/537M
Perfluorooctanoic acid (PFOA)	12			1.7	ng/L	PFC/537M



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Spokane Environmental Solutions, LLC
Project: Borrow Pit/0270-003

Service Request:K1901784

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K1901784-001	MW-1A	2/28/2019	1300
K1901784-002	MW-1B	2/28/2019	1400



CHAIN OF CUSTODY

97379

001

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800 636-7222 / FAX (360) 636-1068
www.alsglobal.comSR# 4901784
COC Set of
COC#

Page 1 of 1

Project Name <u>Borrow Pit</u>		Project Number <u>0270-003</u>																			
Project Manager <u>GARY D. PANTUCK</u>																					
Company <u>SPokane Environmental Solutions, LLC</u>																					
Address <u>3810 E. Boone Ave, Ste 101, Spokane, WA 99202</u>																					
Phone # <u>509-954-5090</u>		Email <u>gary@spokaneenvironmental.com</u>																			
Sampler Signature <u>[Signature]</u>		Sampler Printed Name <u>GARY D. PANTUCK</u>																			
CLIENT SAMPLE ID		LABID	SAMPLING Date Time	Matrix	NUMBER OF CONTAINERS										Remarks						
1. <u>MW-1A</u>			<u>2-28-19 1300</u>	<u>W</u>	2	4															
2. <u>MW-1b</u>			<u>2-28-19 1400</u>	<u>W</u>	2	X															
3.																					
4.																					
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					

Report Requirements <input checked="" type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required <input type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. CLP Like Summary (no raw data) <input type="checkbox"/> IV. Data Validation Report <input checked="" type="checkbox"/> V. EDD		Invoice Information P.O.# <u>0270-003</u> Bill To: <u>SPokane Environmental Solutions</u> Attn: <u>Gary Pantuck</u> Turnaround Requirements <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input checked="" type="checkbox"/> Standard Resubmitted Report Date <u> </u>		<div>Circle which metals are to be analyzed</div> Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Special Instructions/Comments: <u> </u> *Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other <u> </u> (Circle One)	
Relinquished By: Signature <u>[Signature]</u> Printed Name <u>GARY D. PANTUCK</u> Firm <u>SES, LLC</u> Date/Time <u>2-28-19 1600</u>		Received By: Signature <u>[Signature]</u> Printed Name <u>ALS</u> Firm <u>3-1-19 1000</u> Date/Time <u> </u>		Relinquished By: Signature <u> </u> Printed Name <u> </u> Firm <u> </u> Date/Time <u> </u>	
Received By: Signature <u> </u> Printed Name <u> </u> Firm <u> </u> Date/Time <u> </u>		Relinquished By: Signature <u> </u> Printed Name <u> </u> Firm <u> </u> Date/Time <u> </u>		Received By: Signature <u> </u> Printed Name <u> </u> Firm <u> </u> Date/Time <u> </u>	

PC CL

Cooler Receipt and Preservation Form

Client SPOKANE ENVIRONMENTAL SERVICES Service Request K19 01784
Received: 3-1-19 Opened: 3-1-19 By: ASD Unloaded: 3-1-19 By: ASD

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Top Front
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
0.0	-0.1	5.8	5.7	-0.1	371	97379	4808 3227 9050		

4. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? Indicate in the table below. NA Y N
If applicable, tissue samples were received: Frozen Partially Thawed Thawed
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
11. Were VOA vials received without headspace? Indicate in the table below. NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions:



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdwlabservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Spokane Environmental Solutions, LLC
Project: Borrow Pit/0270-003

Service Request: K1901784

Sample Name: MW-1A
Lab Code: K1901784-001
Sample Matrix: Water

Date Collected: 02/28/19
Date Received: 03/1/19

Analysis Method
PFC/537M

Extracted/Digested By
NHILLIKER

Analyzed By
LDMREIS

Sample Name: MW-1B
Lab Code: K1901784-002
Sample Matrix: Water

Date Collected: 02/28/19
Date Received: 03/1/19

Analysis Method
PFC/537M

Extracted/Digested By
NHILLIKER

Analyzed By
LDMREIS



Sample Results

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