

Transmittal



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Juneau, Alaska 99801

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DATE: May 20, 2014

TO: Bruce Wanstall

FROM: Jolene Cox, Environmental Professional

RE: 2013 Annual Groundwater Monitoring Report MWWTP

Attached are the following items:

ITEM	DESCRIPTION
1	One copy of 2013 Annual Groundwater Monitoring Report, Mendenhall Wastewater Treatment, Juneau, Alaska, May 2014.

2013 ANNUAL GROUNDWATER MONITORING REPORT

**Mendenhall River Wastewater Treatment Plant
Juneau, Alaska**

2013 ANNUAL GROUNDWATER MONITORING REPORT

**Mendenhall River Wastewater Treatment Plant
Juneau, Alaska**

Prepared for:

City and Borough of Juneau
155 S. Seward Street
Juneau, Alaska 99801

Submitted to:

Alaska Department of Environmental Conservation
Division of Spill Prevention and Response
Contaminated Sites Program
410 Willoughby Ave., Ste. 303
P.O. Box 111800
Juneau, AK 99811

May 2014

2013 ANNUAL GROUNDWATER MONITORING REPORT

**Mendenhall River Wastewater Treatment Plant
Juneau, Alaska**

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1.0 Introduction

This report summarizes the results of groundwater sampling conducted by Carson Dorn, Inc. (CDI), weekly gauging of monitoring wells and observation of the Mendenhall River for sheens by City and Borough of Juneau (CBJ) personnel, and free product recovery at the Mendenhall Valley Wastewater Treatment Plant (MWWTP) during 2013.

2.0 Annual Groundwater Sampling

On August 27, 2013, groundwater sampling was conducted at MW-1, MW-2, and MW-11 for diesel range organics (DRO) and residual range organics (RRO) by Alaska Methods 102 & 103; volatile organic compounds (VOCs) and total aromatic hydrocarbons (TAH) by USEPA Method 624; semi-volatile organic compounds (SVOCs) and total polyaromatic hydrocarbons (TPAH) by USEPA Method 625; and total aqueous hydrocarbons (TAqH) was calculated from the results by the laboratory. MW-3, MW-7, MW-10, MW-13, and NMW-2 were analyzed for DRO and RRO by Alaska Methods 102 & 103.

Table 1, *2013 Annual Groundwater Monitoring Well Sampling Results* in Appendix A summarizes the annual groundwater sampling results relative to ADEC groundwater cleanup levels (presented in Table C, 18 AAC 75.341). The laboratory analytical reports and laboratory data review checklists are presented in Appendix B. The locations of the groundwater monitoring wells are shown on Figure 1, *Site Plan* (Appendix A).

3.0 Annual Groundwater Analytical Results

DRO was detected at a concentration of 1.9 mg/L in MW-1, 0.61 mg/L in MW-2, 12.2 mg/L in MW-3, 0.29 mg/L in MW-11 and 35.4 mg/L in NMW-2. Light sheen was observed in MW-3 and NMW-2 during the sampling. Neither a sheen nor free product was observed in MW-1, MW-2, or MW-11 during the sampling. RRO was detected at a concentration of 1.08 mg/L in MW-3 and 1.17 mg/L in NMW-2. Benzene was detected at a concentration of 3.2 µg/L in MW-1. Ethylbenzene was detected at a concentration of 5.5 µg/L in MW-1

and 3.8 µg/L in MW-11. Xylenes were detected at a concentration of 2.6 µg/L in MW-1 and 23.2 µg/L in MW-11. 1-methylnaphthalene was detected at a concentration of 2.1 µg/L in MW-2 and 0.72 µg/L in MW-11. 2-methylnaphthalene was detected at a concentration of 0.31 µg/L in MW-11. 2-methylphenol was detected at a concentration of 0.79 µg/L in MW-1. Acenaphthene was detected at a concentration of 0.41 µg/L in MW-1 and 0.13 µg/L in MW-11. Bis(2-ethylhexyl)phthalate was detected at a concentration of 3.6 µg/L in MW-1. Chrysene was detected at a concentration of 0.13 µg/L in MW-2. Dibenzofuran was detected at a concentration of 0.53 µg/L in MW-1. Di-n-butyl phthalate was detected at a concentration of 0.81 µg/L in MW-2. Fluorene was detected at a concentration of 1.4 µg/L in MW-1 and 0.22 µg/L in MW-11. Nitrobenzene was detected at a concentration of 1.2 µg/L in MW-1. Octadecane was detected at a concentration of 0.47 µg/L in MW-11. Phenanthrene was detected at a concentration of 0.49 µg/L in MW-1. TAH was detected at a concentration of 11 µg/L in MW-1 and 27 µg/L in MW-11. TPAH was detected at a concentration of 2.3 µg/L in MW-11, 0.13 µg/L in MW-2, and 0.35 µg/L in MW-11. TqAH was calculated to be 13 µg/L in MW-1, <1 µg/L in MW-2, and 27 µg/L in MW-11.

4.0 Weekly Gauging of Wells and Mendenhall River Observations

Weekly gauging of groundwater monitoring wells for depth to product, depth to groundwater, oil sheen, and product thickness was conducted by CBJ MWWTP personnel. The weekly observation results for 2013 are included in Appendix C.

Observations of the Mendenhall River were conducted weekly by CBJ MWWTP personnel. No river sheen was observed by CBJ personnel during the year.

5.0 Free Product Recovery

Approximately 5-10 gallons of free product was recovered from MW-8 and 13 gallons was recovered from MW-9 during 2013. Oil sheen and product were observed in MW-4 (0.01 feet to 0.26 feet), MW-8 (0.02 feet to 0.06 feet), MW-9 (0.02 feet to 1.04 feet), and NMW-1 (0.14 feet to 1.7 feet) throughout the year. CDI and CBJ initiated a preliminary recovery project on NMW-1 during the last quarter of 2013 which continues to date. R&M

Engineering will be installing a 4-inch monitoring well to allow for increased efficiency of recovery in this location in June 2014.

6.0 Summary

This report summarizes the results of groundwater sampling conducted by CDI, weekly gauging of monitoring wells and Mendenhall River by CBJ personnel, and free product recovery at the MWWTP during 2013. DRO was detected above the ADEC groundwater cleanup level of 1.5 mg/L in three samples (MW-1, MW-3 and NMW-2). TAqH was calculated to be 27 µg/L in MW-11 which exceeds the ADEC standard of 15 µg/L.

No sheen was observed on the Mendenhall River by CBJ personnel during 2013. CBJ will continue monthly gauging of onsite monitoring wells and weekly gauging of NMW-1, observation of the Mendenhall River for sheens, and its efforts to recovery free product. The next round of groundwater sampling will be conducted by CDI in August 2014.

APPENDIX A
TABLES & FIGURES

Table 1. 2013 Annual Groundwater Monitoring Well Sampling Results

Analyte	Units	ADEC Cleanup Level	MW-1 8/27/2013	MW-2 8/27/2013	MW-3 8/27/2013	MW-7 8/27/2013	MW-10 8/27/2013	MW-13 8/27/2013	MW-11 8/27/2013	NMW-2 8/27/2013
USEPA Method 625 - SVOCs										
1,2,4-Trichlorobenzene	ug/L		< 0.39	< 0.39	H				< 0.38	
1,2-Dichlorobenzene	ug/L		< 0.39	< 0.39	H				< 0.38	
1,2-Diphenylhydrazine (as Azobenzene)	ug/L		< 0.97	< 0.97	H				< 0.96	
1,3-Dichlorobenzene	ug/L		< 0.39	< 0.39	H				< 0.38	
1,4-Dichlorobenzene	ug/L		< 0.39	< 0.39	H				< 0.38	
1-Methylnaphthalene	ug/L	150	2.1	< 0.058	H				0.72	
2,4,5-Trichlorophenol	ug/L		< 0.39	< 0.39	H				< 0.38	
2,4,6-Trichlorophenol	ug/L		< 0.58	< 0.58	H				< 0.58	
2,4-Dichlorophenol	ug/L		< 0.39	< 0.39	H				< 0.38	
2,4-Dimethylphenol	ug/L		< 1.9	< 1.9	H				< 1.9	
2,4-Dinitrophenol	ug/L		< 4.9	< 4.9	H				< 4.8	
2,4-Dinitrotoluene	ug/L		< 0.39	< 0.39	H				< 0.38	
2,6-Dinitrotoluene	ug/L		< 0.39	< 0.39	H				< 0.38	
2-Chloronaphthalene	ug/L		< 0.058	< 0.058	H				< 0.058	
2-Chlorophenol	ug/L		< 0.39	< 0.39	H				< 0.38	
2-Methylnaphthalene	ug/L	150	< 0.19	< 0.19	H				0.31	
2-Methylphenol	ug/L	1800	0.79	< 0.39	H				< 0.38	
2-Nitrophenol	ug/L		< 0.39	< 0.39	H				< 0.38	
3,3'-Dichlorobenzidine	ug/L		< 1.9	< 1.9	H				< 1.9	
4,6-Dinitro-2-methylphenol	ug/L		< 3.9	< 3.9	H				< 3.8	
4-Bromophenyl phenyl ether	ug/L		< 0.39	< 0.39	H				< 0.38	
4-Chloro-3-methylphenol	ug/L		< 0.39	< 0.39	H				< 0.38	
4-Chlorophenyl phenyl ether	ug/L		< 0.39	< 0.39	H				< 0.38	
4-Nitrophenol	ug/L		< 2.9	< 2.9	H				< 2.9	
Acenaphthene	ug/L	2200	0.41	< 0.097	H				0.13	
Acenaphthylene	ug/L		< 0.078	< 0.078	H				< 0.077	
Anthracene	ug/L		< 0.039	< 0.039	H				< 0.038	
Benzo[a]anthracene	ug/L		< 0.058	< 0.058	H				< 0.058	
Benzo[a]pyrene	ug/L		< 0.039	< 0.039	H				< 0.038	
Benzo[b]fluoranthene	ug/L		< 0.078	< 0.078	H				< 0.077	
Benzo[g,h,i]perylene	ug/L		< 0.058	< 0.058	H				< 0.058	
Benzo[k]fluoranthene	ug/L		< 0.058	< 0.058	H				< 0.058	
bis (2-chloroisopropyl) ether	ug/L		< 0.39	< 0.39	H				< 0.38	
Bis(2-chloroethoxy)methane	ug/L		< 0.39	< 0.39	H				< 0.38	
Bis(2-chloroethyl)ether	ug/L		< 0.39	< 0.39	H				< 0.38	
Bis(2-ethylhexyl) phthalate	ug/L	6	3.6	* < 2.9	H *				< 2.9	*
Butyl benzyl phthalate	ug/L		< 0.58	< 0.58	H				< 0.58	
Carbazole	ug/L		< 0.39	< 0.39	H				< 0.38	
Chrysene	ug/L		< 0.039	0.13	H				< 0.038	

Table 1. 2013 Annual Groundwater Monitoring Well Sampling Results

Analyte	Units	ADEC Cleanup Level	MW-1 8/27/2013	MW-2 8/27/2013	MW-3 8/27/2013	MW-7 8/27/2013	MW-10 8/27/2013	MW-13 8/27/2013	MW-11 8/27/2013	NMW-2 8/27/2013
Dibenz(a,h)anthracene	ug/L		< 0.058	< 0.058	H				< 0.058	
Dibenzofuran	ug/L	73	0.53	< 0.39	H				< 0.38	
Diethyl phthalate	ug/L		< 0.39	< 0.39	H *				< 0.38	
Dimethyl phthalate	ug/L		< 0.39	* < 0.39	H *				< 0.38	*
Di-n-butyl phthalate	ug/L		< 0.39	* 0.81	H *				< 0.38	*
Di-n-octyl phthalate	ug/L		< 0.39	< 0.39	H				< 0.38	
Fluoranthene	ug/L		< 0.049	< 0.049	H				< 0.048	
Fluorene	ug/L	1500	1.4	< 0.058	H				0.22	
Hexachlorobenzene	ug/L		< 0.39	< 0.39	H				< 0.38	
Hexachlorobutadiene	ug/L		< 0.58	< 0.58	H				< 0.58	
Hexachlorocyclopentadiene	ug/L		< 1.9	< 1.9	H				< 1.9	
Hexachloroethane	ug/L		< 0.58	< 0.58	H				< 0.58	
Indeno[1,2,3-cd]pyrene	ug/L		< 0.058	< 0.058	H				< 0.058	
Isophorone	ug/L		< 0.39	< 0.39	H				< 0.38	
Naphthalene	ug/L		< 0.39	< 0.39	H				< 0.38	
n-Decane	ug/L		6.8	< 0.58	H				< 0.58	
Nitrobenzene	ug/L	18	1.2	< 0.39	H				< 0.38	
N-Nitrosodimethylamine	ug/L		< 1.9	< 1.9	H				< 1.9	
N-Nitrosodiphenylamine	ug/L		< 0.39	< 0.39	H				< 0.38	
Octadecane	ug/L		< 0.39	< 0.39	H				0.47	
Pentachlorophenol	ug/L		< 0.68	< 0.68	H				< 0.67	
Phenanthrene	ug/L	11000	0.49	< 0.078	H				< 0.077	
Phenol	ug/L		< 0.58	< 0.58	H				< 0.58	
Pyrene	ug/L		< 0.058	< 0.058	H				< 0.058	
USEPA Method 624 - VOCs										
1,1,1-Trichloroethane	ug/L		< 1	< 1					< 1	
1,1,2,2-Tetrachloroethane	ug/L		< 1	< 1					< 1	
1,1,2-Trichloroethane	ug/L		< 1	< 1					< 1	
1,1-Dichloroethane	ug/L		< 1	< 1					< 1	
1,1-Dichloroethene	ug/L		< 1	< 1					< 1	
1,2-Dichlorobenzene	ug/L		< 1	< 1					< 1	
1,2-Dichloroethane	ug/L		< 1	< 1					< 1	
1,2-Dichloropropane	ug/L		< 1	< 1					< 1	
1,3-Dichlorobenzene	ug/L		< 1	< 1					< 1	

Table 1. 2013 Annual Groundwater Monitoring Well Sampling Results

Analyte	Units	ADEC Cleanup Level	MW-1 8/27/2013	MW-2 8/27/2013	MW-3 8/27/2013	MW-7 8/27/2013	MW-10 8/27/2013	MW-13 8/27/2013	MW-11 8/27/2013	NMW-2 8/27/2013
Benzene	ug/L	5	3.2	< 1					< 1	
Bromodichloromethane	ug/L		< 1	< 1					< 1	
Bromoform	ug/L		< 1	< 1					< 1	
Bromomethane	ug/L		< 5	< 5					< 5	
Carbon tetrachloride	ug/L		< 1	< 1					< 1	
Chlorobenzene	ug/L		< 1	< 1					< 1	
Chloroethane	ug/L		< 5	< 5					< 5	
Chloroform	ug/L		< 1	< 1					< 1	
Chloromethane	ug/L		< 5	< 5					< 5	
cis-1,3-Dichloropropene	ug/L		< 1	< 1					< 1	
Dibromochloromethane	ug/L		< 1	< 1					< 1	
Ethylbenzene	ug/L	700	5.5	< 1					3.8	
Methylene Chloride	ug/L		< 3	< 3					< 3	
m-Xylene & p-Xylene	ug/L	10000	< 2	< 2					6.2	
o-Xylene	ug/L	10000	2.6	< 1					17	
Tetrachloroethene	ug/L		< 1	< 1					< 1	
Toluene	ug/L		< 1	< 1					< 1	
trans-1,2-Dichloroethene	ug/L		< 1	< 1					< 1	
trans-1,3-Dichloropropene	ug/L		< 1	< 1					< 1	
Trichloroethene	ug/L		< 1	< 1					< 1	
Trichlorofluoromethane	ug/L		< 1	< 1					< 1	
Vinyl chloride	ug/L		< 1	< 1					< 1	
AK Method 102 & 103										
DRO (nC10-<nC25)	mg/L	1.5	1.9 * Y	0.61 * Y	12.2	<0.400	<0.391	<0.382	0.29 * Y	35.4 Q2
RRO (nC25-nC36)	mg/L	1.1	< 0.11	< 0.096	1.08	<0.400	<0.391	<0.382	< 0.097	1.17
TAH Method 624	ug/L	10	11	< 1					27	
TPAH Method 625	ug/L		2.3	0.13 H					0.35	
TAqH	ug/L	15	13	< 1					27	

Notes:

Results in **bold** above ADEC Groundwater Cleanup Level, Table C 18 AAC 75.341

Q2 - Typical pattern for diesel.

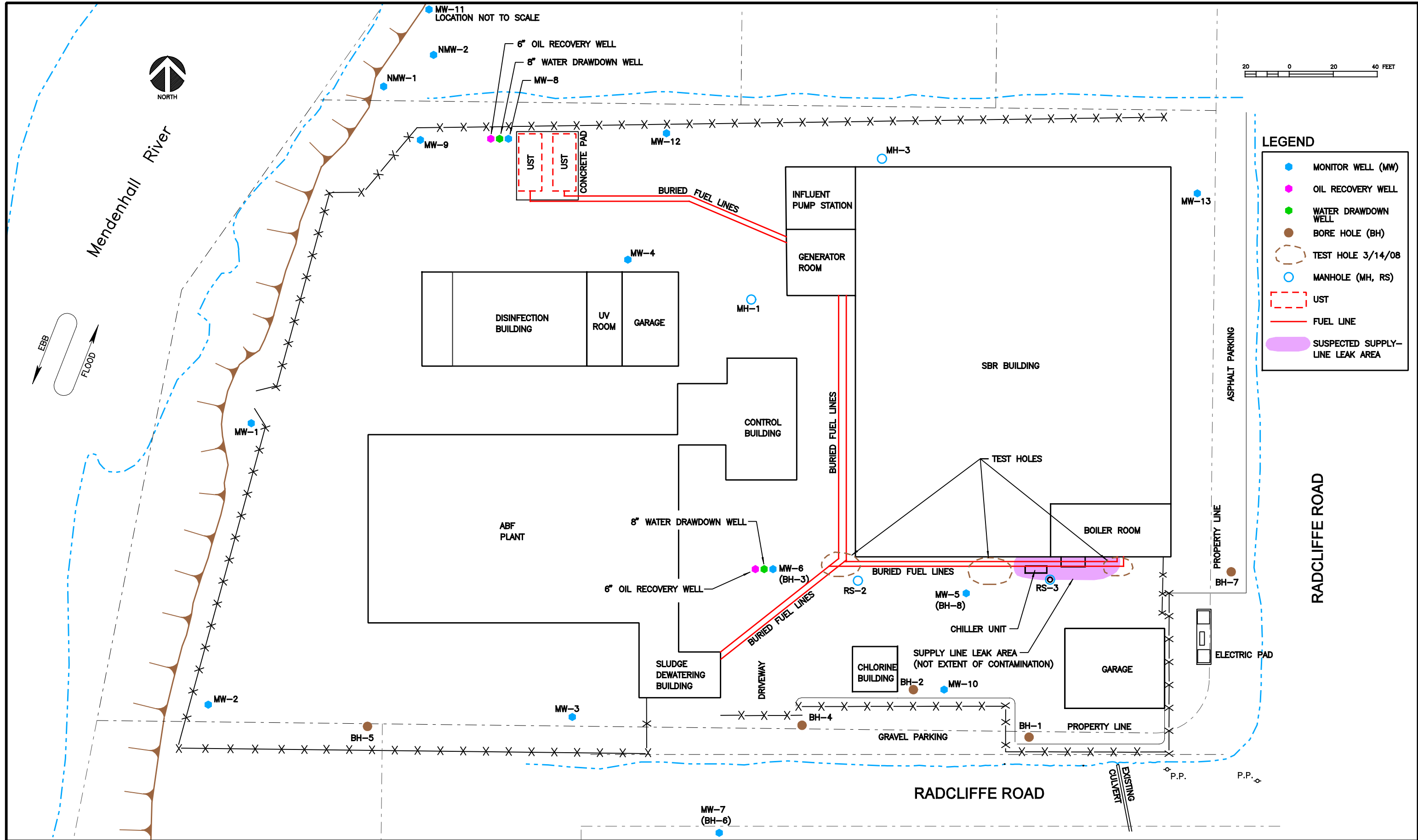
Q11 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel.

* - LCS or LCSD exceeds the control limits / RPD of the LCS and LCSD exceeds the control limits

H - Sample was prepped or analyzed beyond the specified holding time.

Y - The chromatographic response resembles a typical fuel pattern.

Path: File Name: D:\2\cod\CBA\MWTP\MWs & Oil Recovery Wells\2009 COMPOSITE.V8 Date Plotted: 4/28/2012 Time Plotted: 8:16:02 AM

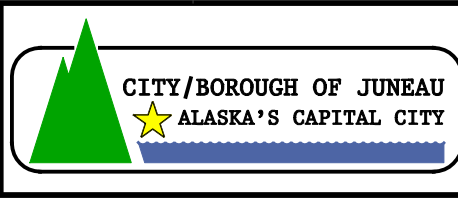


LEGEND

- MONITOR WELL (MW)
- OIL RECOVERY WELL
- WATER DRAWDOWN WELL
- BORE HOLE (BH)
- TEST HOLE 3/14/08
- MANHOLE (MH, RS)
- UST
- FUEL LINE
- SUSPECTED SUPPLY-LINE LEAK AREA

REV	DATE	BY	DESCRIPTION

SCALE GRAPHIC
 DESIGNED SJH
 DRAWN EHI
 CHECKED
 DATE APRIL 2012



CITY AND BOROUGH OF JUNEAU
 MWWTP OIL INVESTIGATION

Carson Dorn Inc.
 712 WEST 12TH STREET
 JUNEAU, ALASKA 99801
 (907) 586-4447

MWWTP SITE PLAN
 MONITORING WELLS
 &
 OIL RECOVERY WELLS

Figure 1
 SHEET No. of

APPENDIX B
LABORATORY ANALYTICAL REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-40019-1
Client Project/Site: MWWTP Juneau, AK

For:
Carson Dorn, Inc
712 West 12th Street
Juneau, Alaska 99801

Attn: Jolene Cox

Pamela R. Johnson

Authorized for release by:
9/19/2013 3:54:43 PM

Pam Johnson, Project Manager I
pamr.johnson@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Job ID: 580-40019-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 8/28/2013 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOA - Method 624

The method blank for preparation batch 144457 contained methylene chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other analytical or quality issues were noted.

GC/MS Semi VOA - Method 625

Surrogate recovery for the following sample MW-1 (580-40019-1) was outside control limits. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. The data have been qualified "X" and reported.

Octadecane was detected in method blank MB 580-144300/1-A at a level that was above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for prep batch 144051 recovered outside control limits for 3 analytes. The associated samples are non detect for the affected analytes except for sample MW-1 (580-40019-1) which has a hit above the RL for bis-2-ethyl hexyl phthalate. This is a known lab contaminant and is probably high in the LCS due to lab contamination. There is no additional sample remaining, so the data have qualified "*" and reported.

The laboratory control sample (LCS) for prep batch 144300 recovered outside acceptance limits high for 4 analytes. The associated sample is non detect for all failing analytes except di-n-butyl phthalate, which has a detection above the RL. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been qualified "*" and reported.

The continuing calibration verification (CCV) for analytical batch 144719 recovered high for benzo(b) fluoranthene. The associated sample is non detect for this analyte and the LCS/LCSD recovery is not affected by the high bias. The data have been qualified "A" and reported.

No other analytical or quality issues were noted.

GC Semi VOA - Method AK102/AK103

In analytical batch 144568, the laboratory control sample (LCS) and the laboratory control sample duplicated (LCSD) for analytical batch 144589 recovered below the lower control limits for DRO (nC10->nC25). The data have been qualified "*" and reported. The associated samples MW-1 (580-40019-1) and MW-11 (580-40019-3) were re-prepared outside holding time. The data have been qualified "H" and reported. Both sets of data will be reported.

In analytical batch 144568, the laboratory control sample (LCS) and laboratory control sample duplicated (LCSD) for preparation batch 144589 recovered below the lower acceptance limits for DRO (nC10->nC25). There was insufficient sample volume for sample MW-2 (580-40019-2) to perform a re-extraction or re-analysis; therefore, the data have been qualified "*" and reported.

In analytical batch 144568, for the following samples MW-1 (580-40019-1) and MW-11 (580-40019-3) from preparation batch 144589, the results in the DRO (nC10->nC25) range are due to what most closely resembles a complex mixture of heavily weathered/degraded diesel fuel and/or a mineral/transformer oil range product, and possible biogenic interference.

The affected analyte range is qualified "Y" and has been reported.

In analytical batch 144568, for the following sample MW-11 (580-40019-3) from preparation batch 144589, the results in the DRO (nC10->nC25) range are due to what most closely resembles a complex mixture of a weathered gasoline product, heavily weathered/degraded diesel fuel and/or a mineral/transformer oil range product, possible biogenic interference, and a grouping of individual peaks that may be due to 8270/PAH analytes.

The affected analyte range is qualified "Y" and has been reported.

Case Narrative

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Job ID: 580-40019-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

In analytical batch 144769, the following samples MW-1 (580-40019-1) and MW-11 (580-40019-3) from preparation batch 144764 was re-prepared outside of preparation holding time due to laboratory control sample and laboratory control sample duplicated (LCS/LCSD) were failing low for DRO (nC10->nC25) range in original preparation batch 144568. The data have been qualified "H" and reported. The LCS and LCSD meet acceptance criteria in the re-extracted results, and both sets of data have been reported.

In analytical batch 144769, for the following sample MW-1 (580-40019-1) from preparation batch 144764, the results in the DRO (nC10->nC25) and RRO (>nC25-nC36) ranges are due to what most closely resembles heavily weathered/degraded diesel fuel.

The affected analyte ranges are qualified "Y" and have been reported.

In analytical batch 144769, for the following sample MW-11 (580-40019-3) from preparation batch 144764, the results in the DRO (nC10->nC25) and RRO (>nC25-nC36) ranges are due to what most closely resembles a complex mixture of a weathered gasoline product, heavily weathered/degraded diesel fuel and/or a mineral/transformer oil range product, motor oil, possible biogenic interference, and a grouping of individual peaks that may be due to 8270/PAH analytes.

No other analytical or quality issues were noted.

Organic Prep

Method CWA_Prep: Batch 144300

The sample MW-2 (580-40019-2) was prepared outside of hold for re-extraction. In the original batch the extract boiled dry while extracting the basic portion because the condenser was not properly on the extraction body. The data have been qualified "H" and reported.

No other analytical or quality issues were noted.

Definitions/Glossary

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
Y	The chromatographic response resembles a typical fuel pattern.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-1
Date Collected: 08/27/13 12:05
Date Received: 08/28/13 16:45

Lab Sample ID: 580-40019-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/10/13 00:51	1
Vinyl chloride	ND		1.0		ug/L			09/10/13 00:51	1
Bromomethane	ND		5.0		ug/L			09/10/13 00:51	1
Chloroethane	ND		5.0		ug/L			09/10/13 00:51	1
Trichlorofluoromethane	ND		1.0		ug/L			09/10/13 00:51	1
1,1-Dichloroethene	ND		1.0		ug/L			09/10/13 00:51	1
Methylene Chloride	ND		3.0		ug/L			09/10/13 00:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/10/13 00:51	1
1,1-Dichloroethane	ND		1.0		ug/L			09/10/13 00:51	1
Chloroform	ND		1.0		ug/L			09/10/13 00:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/10/13 00:51	1
Carbon tetrachloride	ND		1.0		ug/L			09/10/13 00:51	1
Benzene	3.2		1.0		ug/L			09/10/13 00:51	1
1,2-Dichloroethane	ND		1.0		ug/L			09/10/13 00:51	1
Trichloroethene	ND		1.0		ug/L			09/10/13 00:51	1
1,2-Dichloropropane	ND		1.0		ug/L			09/10/13 00:51	1
Bromodichloromethane	ND		1.0		ug/L			09/10/13 00:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/10/13 00:51	1
Toluene	ND		1.0		ug/L			09/10/13 00:51	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/10/13 00:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/10/13 00:51	1
Tetrachloroethene	ND		1.0		ug/L			09/10/13 00:51	1
Dibromochloromethane	ND		1.0		ug/L			09/10/13 00:51	1
Chlorobenzene	ND		1.0		ug/L			09/10/13 00:51	1
Ethylbenzene	5.5		1.0		ug/L			09/10/13 00:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/10/13 00:51	1
o-Xylene	2.6		1.0		ug/L			09/10/13 00:51	1
Bromoform	ND		1.0		ug/L			09/10/13 00:51	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/10/13 00:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/10/13 00:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/10/13 00:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/10/13 00:51	1
TAH	11		1.0		ug/L			09/10/13 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	114		74 - 123		09/10/13 00:51	1
Toluene-d8 (Surr)	100		79 - 122		09/10/13 00:51	1
Fluorobenzene (Surr)	96		77 - 121		09/10/13 00:51	1
Ethylbenzene-d10	102		78 - 117		09/10/13 00:51	1
4-Bromofluorobenzene (Surr)	97		78 - 119		09/10/13 00:51	1

Method: TAqH - Total Aqueous Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TAqH	13		1.0		ug/L			09/18/13 12:53	1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1

TestAmerica Seattle

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-1

Lab Sample ID: 580-40019-1

Date Collected: 08/27/13 12:05

Matrix: Water

Date Received: 08/28/13 16:45

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:26	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:26	1
2,4-Dinitrophenol	ND		4.9		ug/L		09/03/13 10:32	09/06/13 22:26	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
2-Chloronaphthalene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
2-Chlorophenol	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
2-Methylphenol	0.79		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
2-Nitrophenol	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:26	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/03/13 10:32	09/06/13 22:26	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
4-Nitrophenol	ND		2.9		ug/L		09/03/13 10:32	09/06/13 22:26	1
Acenaphthene	0.41		0.097		ug/L		09/03/13 10:32	09/06/13 22:26	1
Acenaphthylene	ND		0.078		ug/L		09/03/13 10:32	09/06/13 22:26	1
Anthracene	ND		0.039		ug/L		09/03/13 10:32	09/06/13 22:26	1
2-Methylnaphthalene	ND		0.19		ug/L		09/03/13 10:32	09/06/13 22:26	1
Benzo[a]anthracene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
Benzo[a]pyrene	ND		0.039		ug/L		09/03/13 10:32	09/06/13 22:26	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/03/13 10:32	09/06/13 22:26	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Bis(2-ethylhexyl) phthalate	3.6 *		2.9		ug/L		09/03/13 10:32	09/06/13 22:26	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:26	1
Carbazole	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Chrysene	ND		0.039		ug/L		09/03/13 10:32	09/06/13 22:26	1
n-Decane	6.8		0.58		ug/L		09/03/13 10:32	09/06/13 22:26	1
Di-n-butyl phthalate	ND *		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
Dibenzofuran	0.53		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Diethyl phthalate	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Dimethyl phthalate	ND *		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Fluoranthene	ND		0.049		ug/L		09/03/13 10:32	09/06/13 22:26	1
Fluorene	1.4		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
Hexachlorobenzene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Hexachlorobutadiene	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:26	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:26	1
Hexachloroethane	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:26	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
Isophorone	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
N-Nitrosodimethylamine	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:26	1

TestAmerica Seattle

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-1

Lab Sample ID: 580-40019-1

Date Collected: 08/27/13 12:05

Matrix: Water

Date Received: 08/28/13 16:45

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Octadecane	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Naphthalene	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Nitrobenzene	1.2		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
Pentachlorophenol	ND		0.68		ug/L		09/03/13 10:32	09/06/13 22:26	1
Phenanthrene	0.49		0.078		ug/L		09/03/13 10:32	09/06/13 22:26	1
Phenol	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:26	1
Pyrene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		0.97		ug/L		09/03/13 10:32	09/06/13 22:26	1
bis (2-chloroisopropyl) ether	ND		0.39		ug/L		09/03/13 10:32	09/06/13 22:26	1
1-Methylnaphthalene	2.1		0.058		ug/L		09/03/13 10:32	09/06/13 22:26	1
TPAH	2.3		0.039		ug/L		09/03/13 10:32	09/06/13 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	109		47 - 137	09/03/13 10:32	09/06/13 22:26	1
2-Fluorobiphenyl	72		56 - 124	09/03/13 10:32	09/06/13 22:26	1
2-Fluorophenol	81		20 - 122	09/03/13 10:32	09/06/13 22:26	1
Nitrobenzene-d5	320	X	59 - 123	09/03/13 10:32	09/06/13 22:26	1
Phenol-d5	90		20 - 123	09/03/13 10:32	09/06/13 22:26	1
Terphenyl-d14	100		60 - 135	09/03/13 10:32	09/06/13 22:26	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1.9	* Y	0.11		mg/L		09/10/13 10:09	09/10/13 16:44	1
RRO (nC25-nC36)	ND		0.11		mg/L		09/10/13 10:09	09/10/13 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150	09/10/13 10:09	09/10/13 16:44	1
n-Triacontane-d62	64		50 - 150	09/10/13 10:09	09/10/13 16:44	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.97	H Y	0.098		mg/L		09/12/13 08:30	09/12/13 15:15	1
RRO (nC25-nC36)	ND	H Y	0.098		mg/L		09/12/13 08:30	09/12/13 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	09/12/13 08:30	09/12/13 15:15	1
n-Triacontane-d62	69		50 - 150	09/12/13 08:30	09/12/13 15:15	1

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-2

Lab Sample ID: 580-40019-2

Date Collected: 08/27/13 11:00

Matrix: Water

Date Received: 08/28/13 16:45

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/10/13 01:20	1
Vinyl chloride	ND		1.0		ug/L			09/10/13 01:20	1
Bromomethane	ND		5.0		ug/L			09/10/13 01:20	1
Chloroethane	ND		5.0		ug/L			09/10/13 01:20	1
Trichlorofluoromethane	ND		1.0		ug/L			09/10/13 01:20	1
1,1-Dichloroethene	ND		1.0		ug/L			09/10/13 01:20	1
Methylene Chloride	ND		3.0		ug/L			09/10/13 01:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/10/13 01:20	1
1,1-Dichloroethane	ND		1.0		ug/L			09/10/13 01:20	1
Chloroform	ND		1.0		ug/L			09/10/13 01:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/10/13 01:20	1
Carbon tetrachloride	ND		1.0		ug/L			09/10/13 01:20	1
Benzene	ND		1.0		ug/L			09/10/13 01:20	1
1,2-Dichloroethane	ND		1.0		ug/L			09/10/13 01:20	1
Trichloroethene	ND		1.0		ug/L			09/10/13 01:20	1
1,2-Dichloropropane	ND		1.0		ug/L			09/10/13 01:20	1
Bromodichloromethane	ND		1.0		ug/L			09/10/13 01:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/10/13 01:20	1
Toluene	ND		1.0		ug/L			09/10/13 01:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/10/13 01:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/10/13 01:20	1
Tetrachloroethene	ND		1.0		ug/L			09/10/13 01:20	1
Dibromochloromethane	ND		1.0		ug/L			09/10/13 01:20	1
Chlorobenzene	ND		1.0		ug/L			09/10/13 01:20	1
Ethylbenzene	ND		1.0		ug/L			09/10/13 01:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/10/13 01:20	1
o-Xylene	ND		1.0		ug/L			09/10/13 01:20	1
Bromoform	ND		1.0		ug/L			09/10/13 01:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/10/13 01:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/10/13 01:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/10/13 01:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/10/13 01:20	1
TAH	ND		1.0		ug/L			09/10/13 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	112		74 - 123		09/10/13 01:20	1
Toluene-d8 (Surr)	100		79 - 122		09/10/13 01:20	1
Fluorobenzene (Surr)	99		77 - 121		09/10/13 01:20	1
Ethylbenzene-d10	105		78 - 117		09/10/13 01:20	1
4-Bromofluorobenzene (Surr)	98		78 - 119		09/10/13 01:20	1

Method: TAqH - Total Aqueous Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TAqH	ND		1.0		ug/L			09/18/13 12:53	1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
1,2-Dichlorobenzene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
1,3-Dichlorobenzene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1

TestAmerica Seattle

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-2

Lab Sample ID: 580-40019-2

Date Collected: 08/27/13 11:00

Matrix: Water

Date Received: 08/28/13 16:45

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
2,4,5-Trichlorophenol	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
2,4,6-Trichlorophenol	ND	H	0.58		ug/L		09/05/13 17:15	09/11/13 20:16	1
2,4-Dichlorophenol	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
2,4-Dimethylphenol	ND	H	1.9		ug/L		09/05/13 17:15	09/11/13 20:16	1
2,4-Dinitrophenol	ND	H	4.9		ug/L		09/05/13 17:15	09/11/13 20:16	1
2,4-Dinitrotoluene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
2,6-Dinitrotoluene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
2-Chloronaphthalene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
2-Chlorophenol	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
2-Methylphenol	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
2-Nitrophenol	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
3,3'-Dichlorobenzidine	ND	H	1.9		ug/L		09/05/13 17:15	09/11/13 20:16	1
4,6-Dinitro-2-methylphenol	ND	H	3.9		ug/L		09/05/13 17:15	09/11/13 20:16	1
4-Bromophenyl phenyl ether	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
4-Chloro-3-methylphenol	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
4-Chlorophenyl phenyl ether	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
4-Nitrophenol	ND	H	2.9		ug/L		09/05/13 17:15	09/11/13 20:16	1
Acenaphthene	ND	H	0.097		ug/L		09/05/13 17:15	09/11/13 20:16	1
Acenaphthylene	ND	H	0.078		ug/L		09/05/13 17:15	09/11/13 20:16	1
Anthracene	ND	H	0.039		ug/L		09/05/13 17:15	09/11/13 20:16	1
2-Methylnaphthalene	ND	H	0.19		ug/L		09/05/13 17:15	09/11/13 20:16	1
Benzo[a]anthracene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
Benzo[a]pyrene	ND	H	0.039		ug/L		09/05/13 17:15	09/11/13 20:16	1
Benzo[b]fluoranthene	ND	H ^	0.078		ug/L		09/05/13 17:15	09/11/13 20:16	1
Benzo[g,h,i]perylene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
Benzo[k]fluoranthene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
Bis(2-chloroethoxy)methane	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Bis(2-chloroethyl)ether	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Bis(2-ethylhexyl) phthalate	ND	H *	2.9		ug/L		09/05/13 17:15	09/11/13 20:16	1
Butyl benzyl phthalate	ND	H	0.58		ug/L		09/05/13 17:15	09/11/13 20:16	1
Carbazole	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Chrysene	0.13	H	0.039		ug/L		09/05/13 17:15	09/11/13 20:16	1
n-Decane	ND	H	0.58		ug/L		09/05/13 17:15	09/11/13 20:16	1
Di-n-butyl phthalate	0.81	H *	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Di-n-octyl phthalate	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Dibenz(a,h)anthracene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
Dibenzofuran	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Diethyl phthalate	ND	H *	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Dimethyl phthalate	ND	H *	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Fluoranthene	ND	H	0.049		ug/L		09/05/13 17:15	09/11/13 20:16	1
Fluorene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
Hexachlorobenzene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Hexachlorobutadiene	ND	H	0.58		ug/L		09/05/13 17:15	09/11/13 20:16	1
Hexachlorocyclopentadiene	ND	H	1.9		ug/L		09/05/13 17:15	09/11/13 20:16	1
Hexachloroethane	ND	H	0.58		ug/L		09/05/13 17:15	09/11/13 20:16	1
Indeno[1,2,3-cd]pyrene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
Isophorone	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
N-Nitrosodimethylamine	ND	H	1.9		ug/L		09/05/13 17:15	09/11/13 20:16	1

TestAmerica Seattle

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-2

Lab Sample ID: 580-40019-2

Date Collected: 08/27/13 11:00

Matrix: Water

Date Received: 08/28/13 16:45

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Octadecane	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Naphthalene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Nitrobenzene	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
Pentachlorophenol	ND	H	0.68		ug/L		09/05/13 17:15	09/11/13 20:16	1
Phenanthrene	ND	H	0.078		ug/L		09/05/13 17:15	09/11/13 20:16	1
Phenol	ND	H	0.58		ug/L		09/05/13 17:15	09/11/13 20:16	1
Pyrene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
1,2-Diphenylhydrazine (as Azobenzene)	ND	H	0.97		ug/L		09/05/13 17:15	09/11/13 20:16	1
bis (2-chloroisopropyl) ether	ND	H	0.39		ug/L		09/05/13 17:15	09/11/13 20:16	1
1-Methylnaphthalene	ND	H	0.058		ug/L		09/05/13 17:15	09/11/13 20:16	1
TPAH	0.13	H	0.039		ug/L		09/05/13 17:15	09/11/13 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	118		47 - 137	09/05/13 17:15	09/11/13 20:16	1
2-Fluorobiphenyl	78		56 - 124	09/05/13 17:15	09/11/13 20:16	1
2-Fluorophenol	71		20 - 122	09/05/13 17:15	09/11/13 20:16	1
Nitrobenzene-d5	80		59 - 123	09/05/13 17:15	09/11/13 20:16	1
Phenol-d5	72		20 - 123	09/05/13 17:15	09/11/13 20:16	1
Terphenyl-d14	115		60 - 135	09/05/13 17:15	09/11/13 20:16	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.61	* Y	0.096		mg/L		09/10/13 10:09	09/10/13 17:02	1
RRO (nC25-nC36)	ND		0.096		mg/L		09/10/13 10:09	09/10/13 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	09/10/13 10:09	09/10/13 17:02	1
n-Triacontane-d62	71		50 - 150	09/10/13 10:09	09/10/13 17:02	1

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-11

Lab Sample ID: 580-40019-3

Date Collected: 08/27/13 13:20

Matrix: Water

Date Received: 08/28/13 16:45

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/10/13 01:50	1
Vinyl chloride	ND		1.0		ug/L			09/10/13 01:50	1
Bromomethane	ND		5.0		ug/L			09/10/13 01:50	1
Chloroethane	ND		5.0		ug/L			09/10/13 01:50	1
Trichlorofluoromethane	ND		1.0		ug/L			09/10/13 01:50	1
1,1-Dichloroethene	ND		1.0		ug/L			09/10/13 01:50	1
Methylene Chloride	ND		3.0		ug/L			09/10/13 01:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/10/13 01:50	1
1,1-Dichloroethane	ND		1.0		ug/L			09/10/13 01:50	1
Chloroform	ND		1.0		ug/L			09/10/13 01:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/10/13 01:50	1
Carbon tetrachloride	ND		1.0		ug/L			09/10/13 01:50	1
Benzene	ND		1.0		ug/L			09/10/13 01:50	1
1,2-Dichloroethane	ND		1.0		ug/L			09/10/13 01:50	1
Trichloroethene	ND		1.0		ug/L			09/10/13 01:50	1
1,2-Dichloropropane	ND		1.0		ug/L			09/10/13 01:50	1
Bromodichloromethane	ND		1.0		ug/L			09/10/13 01:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/10/13 01:50	1
Toluene	ND		1.0		ug/L			09/10/13 01:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/10/13 01:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/10/13 01:50	1
Tetrachloroethene	ND		1.0		ug/L			09/10/13 01:50	1
Dibromochloromethane	ND		1.0		ug/L			09/10/13 01:50	1
Chlorobenzene	ND		1.0		ug/L			09/10/13 01:50	1
Ethylbenzene	3.8		1.0		ug/L			09/10/13 01:50	1
m-Xylene & p-Xylene	6.2		2.0		ug/L			09/10/13 01:50	1
o-Xylene	17		1.0		ug/L			09/10/13 01:50	1
Bromoform	ND		1.0		ug/L			09/10/13 01:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/10/13 01:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/10/13 01:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/10/13 01:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/10/13 01:50	1
TAH	27		1.0		ug/L			09/10/13 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	111		74 - 123		09/10/13 01:50	1
Toluene-d8 (Surr)	99		79 - 122		09/10/13 01:50	1
Fluorobenzene (Surr)	98		77 - 121		09/10/13 01:50	1
Ethylbenzene-d10	104		78 - 117		09/10/13 01:50	1
4-Bromofluorobenzene (Surr)	100		78 - 119		09/10/13 01:50	1

Method: TAqH - Total Aqueous Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TAqH	27		1.0		ug/L			09/18/13 12:53	1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
1,2-Dichlorobenzene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
1,3-Dichlorobenzene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1

TestAmerica Seattle

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-11

Lab Sample ID: 580-40019-3

Date Collected: 08/27/13 13:20

Matrix: Water

Date Received: 08/28/13 16:45

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
2,4,5-Trichlorophenol	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:53	1
2,4-Dichlorophenol	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:53	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/03/13 10:32	09/06/13 22:53	1
2,4-Dinitrotoluene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
2,6-Dinitrotoluene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
2-Chloronaphthalene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
2-Chlorophenol	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
2-Methylphenol	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
2-Nitrophenol	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:53	1
4,6-Dinitro-2-methylphenol	ND		3.8		ug/L		09/03/13 10:32	09/06/13 22:53	1
4-Bromophenyl phenyl ether	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
4-Chloro-3-methylphenol	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
4-Chlorophenyl phenyl ether	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
4-Nitrophenol	ND		2.9		ug/L		09/03/13 10:32	09/06/13 22:53	1
Acenaphthene	0.13		0.096		ug/L		09/03/13 10:32	09/06/13 22:53	1
Acenaphthylene	ND		0.077		ug/L		09/03/13 10:32	09/06/13 22:53	1
Anthracene	ND		0.038		ug/L		09/03/13 10:32	09/06/13 22:53	1
2-Methylnaphthalene	0.31		0.19		ug/L		09/03/13 10:32	09/06/13 22:53	1
Benzo[a]anthracene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
Benzo[a]pyrene	ND		0.038		ug/L		09/03/13 10:32	09/06/13 22:53	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/03/13 10:32	09/06/13 22:53	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
Bis(2-chloroethoxy)methane	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Bis(2-chloroethyl)ether	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Bis(2-ethylhexyl) phthalate	ND *		2.9		ug/L		09/03/13 10:32	09/06/13 22:53	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:53	1
Carbazole	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Chrysene	ND		0.038		ug/L		09/03/13 10:32	09/06/13 22:53	1
n-Decane	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:53	1
Di-n-butyl phthalate	ND *		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Di-n-octyl phthalate	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
Dibenzofuran	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Diethyl phthalate	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Dimethyl phthalate	ND *		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Fluoranthene	ND		0.048		ug/L		09/03/13 10:32	09/06/13 22:53	1
Fluorene	0.22		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
Hexachlorobenzene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Hexachlorobutadiene	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:53	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:53	1
Hexachloroethane	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:53	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
Isophorone	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
N-Nitrosodimethylamine	ND		1.9		ug/L		09/03/13 10:32	09/06/13 22:53	1

TestAmerica Seattle

Client Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-11

Lab Sample ID: 580-40019-3

Date Collected: 08/27/13 13:20

Matrix: Water

Date Received: 08/28/13 16:45

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Octadecane	0.47		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Naphthalene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Nitrobenzene	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
Pentachlorophenol	ND		0.67		ug/L		09/03/13 10:32	09/06/13 22:53	1
Phenanthrene	ND		0.077		ug/L		09/03/13 10:32	09/06/13 22:53	1
Phenol	ND		0.58		ug/L		09/03/13 10:32	09/06/13 22:53	1
Pyrene	ND		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		0.96		ug/L		09/03/13 10:32	09/06/13 22:53	1
bis (2-chloroisopropyl) ether	ND		0.38		ug/L		09/03/13 10:32	09/06/13 22:53	1
1-Methylnaphthalene	0.72		0.058		ug/L		09/03/13 10:32	09/06/13 22:53	1
TPAH	0.35		0.038		ug/L		09/03/13 10:32	09/06/13 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	110		47 - 137	09/03/13 10:32	09/06/13 22:53	1
2-Fluorobiphenyl	76		56 - 124	09/03/13 10:32	09/06/13 22:53	1
2-Fluorophenol	80		20 - 122	09/03/13 10:32	09/06/13 22:53	1
Nitrobenzene-d5	89		59 - 123	09/03/13 10:32	09/06/13 22:53	1
Phenol-d5	77		20 - 123	09/03/13 10:32	09/06/13 22:53	1
Terphenyl-d14	107		60 - 135	09/03/13 10:32	09/06/13 22:53	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.29	* Y	0.097		mg/L		09/10/13 10:09	09/10/13 17:20	1
RRO (nC25-nC36)	ND		0.097		mg/L		09/10/13 10:09	09/10/13 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150	09/10/13 10:09	09/10/13 17:20	1
n-Triacontane-d62	64		50 - 150	09/10/13 10:09	09/10/13 17:20	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	0.45	H Y	0.097		mg/L		09/12/13 08:30	09/12/13 15:33	1
RRO (nC25-nC36)	0.10	H Y	0.097		mg/L		09/12/13 08:30	09/12/13 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	09/12/13 08:30	09/12/13 15:33	1
n-Triacontane-d62	77		50 - 150	09/12/13 08:30	09/12/13 15:33	1

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-144457/27

Matrix: Water

Analysis Batch: 144457

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/09/13 20:22	1
Vinyl chloride	ND		1.0		ug/L			09/09/13 20:22	1
Bromomethane	ND		5.0		ug/L			09/09/13 20:22	1
Chloroethane	ND		5.0		ug/L			09/09/13 20:22	1
Trichlorofluoromethane	ND		1.0		ug/L			09/09/13 20:22	1
1,1-Dichloroethene	ND		1.0		ug/L			09/09/13 20:22	1
Methylene Chloride	3.92		3.0		ug/L			09/09/13 20:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/09/13 20:22	1
1,1-Dichloroethane	ND		1.0		ug/L			09/09/13 20:22	1
Chloroform	ND		1.0		ug/L			09/09/13 20:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/09/13 20:22	1
Carbon tetrachloride	ND		1.0		ug/L			09/09/13 20:22	1
Benzene	ND		1.0		ug/L			09/09/13 20:22	1
1,2-Dichloroethane	ND		1.0		ug/L			09/09/13 20:22	1
Trichloroethene	ND		1.0		ug/L			09/09/13 20:22	1
1,2-Dichloropropane	ND		1.0		ug/L			09/09/13 20:22	1
Bromodichloromethane	ND		1.0		ug/L			09/09/13 20:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/09/13 20:22	1
Toluene	ND		1.0		ug/L			09/09/13 20:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/09/13 20:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/09/13 20:22	1
Tetrachloroethene	ND		1.0		ug/L			09/09/13 20:22	1
Dibromochloromethane	ND		1.0		ug/L			09/09/13 20:22	1
Chlorobenzene	ND		1.0		ug/L			09/09/13 20:22	1
Ethylbenzene	ND		1.0		ug/L			09/09/13 20:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/09/13 20:22	1
o-Xylene	ND		1.0		ug/L			09/09/13 20:22	1
Bromoform	ND		1.0		ug/L			09/09/13 20:22	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/09/13 20:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/09/13 20:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/09/13 20:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/09/13 20:22	1
TAH	ND		1.0		ug/L			09/09/13 20:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	102		74 - 123		09/09/13 20:22	1
Toluene-d8 (Surr)	101		79 - 122		09/09/13 20:22	1
Fluorobenzene (Surr)	97		77 - 121		09/09/13 20:22	1
Ethylbenzene-d10	106		78 - 117		09/09/13 20:22	1
4-Bromofluorobenzene (Surr)	99		78 - 119		09/09/13 20:22	1

Lab Sample ID: LCS 580-144457/28

Matrix: Water

Analysis Batch: 144457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.1	19.8		ug/L		99	1 - 273
Vinyl chloride	20.1	21.0		ug/L		105	1 - 251

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-144457/28

Matrix: Water

Analysis Batch: 144457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Bromomethane	20.1	21.7		ug/L		108	1 - 242	
Chloroethane	20.1	20.7		ug/L		103	14 - 230	
Trichlorofluoromethane	20.1	23.1		ug/L		115	17 - 181	
1,1-Dichloroethene	20.1	21.6		ug/L		108	1 - 234	
Methylene Chloride	20.1	21.2		ug/L		106	1 - 221	
trans-1,2-Dichloroethene	20.1	20.9		ug/L		104	54 - 156	
1,1-Dichloroethane	20.1	20.3		ug/L		101	59 - 155	
Chloroform	20.1	20.5		ug/L		102	51 - 138	
1,1,1-Trichloroethane	20.1	21.3		ug/L		106	52 - 162	
Carbon tetrachloride	20.1	20.6		ug/L		103	70 - 140	
Benzene	20.1	20.5		ug/L		102	37 - 151	
1,2-Dichloroethane	20.1	20.2		ug/L		101	49 - 155	
Trichloroethene	20.1	21.2		ug/L		106	71 - 157	
1,2-Dichloropropane	20.1	20.5		ug/L		102	1 - 210	
Bromodichloromethane	20.1	20.5		ug/L		102	35 - 155	
cis-1,3-Dichloropropene	20.1	21.1		ug/L		105	1 - 227	
Toluene	20.1	20.6		ug/L		103	47 - 150	
trans-1,3-Dichloropropene	20.1	20.6		ug/L		103	17 - 183	
1,1,2-Trichloroethane	20.1	20.5		ug/L		102	52 - 150	
Tetrachloroethene	20.1	21.2		ug/L		106	64 - 148	
Dibromochloromethane	20.1	19.7		ug/L		98	53 - 149	
Chlorobenzene	20.1	19.4		ug/L		97	37 - 160	
Ethylbenzene	20.1	20.7		ug/L		103	37 - 162	
m-Xylene & p-Xylene	20.1	19.9		ug/L		99	78 - 114	
o-Xylene	20.1	20.6		ug/L		103	77 - 116	
Bromoform	20.1	17.9		ug/L		89	45 - 169	
1,1,1,2-Tetrachloroethane	20.1	17.6		ug/L		88	46 - 157	
1,3-Dichlorobenzene	20.1	20.2		ug/L		101	59 - 156	
1,4-Dichlorobenzene	20.1	20.1		ug/L		100	18 - 190	
1,2-Dichlorobenzene	20.1	20.0		ug/L		100	18 - 190	
TAH	100	102		ug/L		102		

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Trifluorotoluene (Surr)	106		74 - 123
Toluene-d8 (Surr)	101		79 - 122
Fluorobenzene (Surr)	99		77 - 121
Ethylbenzene-d10	102		78 - 117
4-Bromofluorobenzene (Surr)	101		78 - 119

Lab Sample ID: LCSD 580-144457/29

Matrix: Water

Analysis Batch: 144457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
Chloromethane	20.1	21.4		ug/L		107	1 - 273	8	30	
Vinyl chloride	20.1	23.2		ug/L		116	1 - 251	10	30	
Bromomethane	20.1	23.2		ug/L		116	1 - 242	7	30	
Chloroethane	20.1	23.5		ug/L		117	14 - 230	13	30	

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-144457/29

Matrix: Water

Analysis Batch: 144457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Trichlorofluoromethane	20.1	23.7		ug/L		118	17 - 181	2	30
1,1-Dichloroethene	20.1	24.3		ug/L		121	1 - 234	12	30
Methylene Chloride	20.1	22.3		ug/L		111	1 - 221	5	30
trans-1,2-Dichloroethene	20.1	22.8		ug/L		113	54 - 156	8	30
1,1-Dichloroethane	20.1	22.0		ug/L		110	59 - 155	8	30
Chloroform	20.1	22.2		ug/L		111	51 - 138	8	30
1,1,1-Trichloroethane	20.1	23.0		ug/L		115	52 - 162	8	30
Carbon tetrachloride	20.1	22.7		ug/L		113	70 - 140	10	30
Benzene	20.1	21.9		ug/L		109	37 - 151	6	30
1,2-Dichloroethane	20.1	21.2		ug/L		106	49 - 155	5	30
Trichloroethene	20.1	22.9		ug/L		114	71 - 157	8	30
1,2-Dichloropropane	20.1	21.5		ug/L		107	1 - 210	5	30
Bromodichloromethane	20.1	22.1		ug/L		110	35 - 155	8	30
cis-1,3-Dichloropropene	20.1	22.4		ug/L		112	1 - 227	6	30
Toluene	20.1	21.8		ug/L		109	47 - 150	6	30
trans-1,3-Dichloropropene	20.1	21.3		ug/L		106	17 - 183	4	30
1,1,2-Trichloroethane	20.1	21.3		ug/L		106	52 - 150	4	30
Tetrachloroethene	20.1	22.6		ug/L		112	64 - 148	6	30
Dibromochloromethane	20.1	20.7		ug/L		103	53 - 149	5	30
Chlorobenzene	20.1	20.4		ug/L		102	37 - 160	5	30
Ethylbenzene	20.1	22.1		ug/L		110	37 - 162	6	30
m-Xylene & p-Xylene	20.1	21.4		ug/L		107	78 - 114	7	30
o-Xylene	20.1	21.9		ug/L		109	77 - 116	6	30
Bromoform	20.1	18.9		ug/L		94	45 - 169	6	30
1,1,1,2-Tetrachloroethane	20.1	18.7		ug/L		93	46 - 157	6	30
1,3-Dichlorobenzene	20.1	21.8		ug/L		109	59 - 156	8	30
1,4-Dichlorobenzene	20.1	21.4		ug/L		107	18 - 190	6	30
1,2-Dichlorobenzene	20.1	21.1		ug/L		105	18 - 190	5	30
TAH	100	109		ug/L		109		6	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Trifluorotoluene (Surr)	112		74 - 123
Toluene-d8 (Surr)	101		79 - 122
Fluorobenzene (Surr)	99		77 - 121
Ethylbenzene-d10	102		78 - 117
4-Bromofluorobenzene (Surr)	102		78 - 119

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-144051/1-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144051

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-144051/1-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144051

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/03/13 10:32	09/06/13 18:29	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
2-Chloronaphthalene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
2-Chlorophenol	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
2-Methylphenol	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
2-Nitrophenol	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
4-Nitrophenol	ND		3.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
Acenaphthene	ND		0.10		ug/L		09/03/13 10:32	09/06/13 18:29	1
Acenaphthylene	ND		0.080		ug/L		09/03/13 10:32	09/06/13 18:29	1
Anthracene	ND		0.040		ug/L		09/03/13 10:32	09/06/13 18:29	1
2-Methylnaphthalene	ND		0.20		ug/L		09/03/13 10:32	09/06/13 18:29	1
Benzo[a]anthracene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
Benzo[a]pyrene	ND		0.040		ug/L		09/03/13 10:32	09/06/13 18:29	1
Benzo[b]fluoranthene	ND		0.080		ug/L		09/03/13 10:32	09/06/13 18:29	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/03/13 10:32	09/06/13 18:29	1
Carbazole	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Chrysene	ND		0.040		ug/L		09/03/13 10:32	09/06/13 18:29	1
n-Decane	ND		0.60		ug/L		09/03/13 10:32	09/06/13 18:29	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
Dibenzofuran	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Diethyl phthalate	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Dimethyl phthalate	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Fluoranthene	ND		0.050		ug/L		09/03/13 10:32	09/06/13 18:29	1
Fluorene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
Hexachlorobenzene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Hexachlorobutadiene	ND		0.60		ug/L		09/03/13 10:32	09/06/13 18:29	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
Hexachloroethane	ND		0.60		ug/L		09/03/13 10:32	09/06/13 18:29	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
Isophorone	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
N-Nitrosodimethylamine	ND		2.0		ug/L		09/03/13 10:32	09/06/13 18:29	1

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-144051/1-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Octadecane	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Naphthalene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Nitrobenzene	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
Pentachlorophenol	ND		0.70		ug/L		09/03/13 10:32	09/06/13 18:29	1
Phenanthrene	ND		0.080		ug/L		09/03/13 10:32	09/06/13 18:29	1
Phenol	ND		0.60		ug/L		09/03/13 10:32	09/06/13 18:29	1
Pyrene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		1.0		ug/L		09/03/13 10:32	09/06/13 18:29	1
bis (2-chloroisopropyl) ether	ND		0.40		ug/L		09/03/13 10:32	09/06/13 18:29	1
1-Methylnaphthalene	ND		0.060		ug/L		09/03/13 10:32	09/06/13 18:29	1
TPAH	ND		0.040		ug/L		09/03/13 10:32	09/06/13 18:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		47 - 137	09/03/13 10:32	09/06/13 18:29	1
2-Fluorobiphenyl	77		56 - 124	09/03/13 10:32	09/06/13 18:29	1
2-Fluorophenol	74		20 - 122	09/03/13 10:32	09/06/13 18:29	1
Nitrobenzene-d5	78		59 - 123	09/03/13 10:32	09/06/13 18:29	1
Phenol-d5	64		20 - 123	09/03/13 10:32	09/06/13 18:29	1
Terphenyl-d14	99		60 - 135	09/03/13 10:32	09/06/13 18:29	1

Lab Sample ID: LCS 580-144051/2-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.69		ug/L		84	44 - 142
1,2-Dichlorobenzene	2.00	1.65		ug/L		83	32 - 129
1,3-Dichlorobenzene	2.00	1.58		ug/L		79	1 - 172
1,4-Dichlorobenzene	2.00	1.61		ug/L		81	20 - 124
2,4,5-Trichlorophenol	2.00	1.89		ug/L		94	50 - 150
2,4,6-Trichlorophenol	1.99	1.90		ug/L		96	37 - 144
2,4-Dichlorophenol	1.98	1.80		ug/L		91	39 - 135
2,4-Dimethylphenol	1.98	ND		ug/L		71	32 - 119
2,4-Dinitrophenol	9.87	7.74		ug/L		78	1 - 191
2,4-Dinitrotoluene	2.00	2.22		ug/L		111	39 - 139
2,6-Dinitrotoluene	2.00	2.03		ug/L		102	50 - 158
2-Chloronaphthalene	2.00	1.75		ug/L		87	60 - 118
2-Chlorophenol	1.98	1.89		ug/L		96	23 - 134
2-Methylphenol	2.00	1.76		ug/L		88	44 - 113
2-Nitrophenol	1.98	1.85		ug/L		94	29 - 182
3,3'-Dichlorobenzidine	3.97	2.71		ug/L		68	1 - 262
4,6-Dinitro-2-methylphenol	9.95	9.13		ug/L		92	1 - 181
4-Bromophenyl phenyl ether	2.00	2.00		ug/L		100	53 - 127
4-Chloro-3-methylphenol	2.04	1.92		ug/L		94	22 - 147
4-Chlorophenyl phenyl ether	2.00	1.86		ug/L		93	25 - 158
4-Nitrophenol	10.1	9.87		ug/L		98	1 - 132

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-144051/2-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.00	1.81		ug/L		90	47 - 145
Acenaphthylene	2.00	1.88		ug/L		94	33 - 145
Anthracene	2.00	1.66		ug/L		83	27 - 133
2-Methylnaphthalene	2.00	1.81		ug/L		91	20 - 150
Benzo[a]anthracene	2.00	1.96		ug/L		98	33 - 143
Benzo[a]pyrene	2.00	1.56		ug/L		78	17 - 163
Benzo[b]fluoranthene	2.00	2.27		ug/L		114	24 - 159
Benzo[g,h,i]perylene	2.00	2.05		ug/L		103	1 - 219
Benzo[k]fluoranthene	2.00	2.17		ug/L		108	11 - 162
Bis(2-chloroethoxy)methane	2.00	1.93		ug/L		96	33 - 184
Bis(2-chloroethyl)ether	2.00	1.80		ug/L		90	12 - 158
Bis(2-ethylhexyl) phthalate	1.99	5.08	*	ug/L		255	8 - 158
Butyl benzyl phthalate	2.00	2.15		ug/L		107	1 - 152
Carbazole	2.00	2.09		ug/L		104	45 - 135
Chrysene	1.93	1.92		ug/L		100	17 - 168
n-Decane	1.99	1.60		ug/L		81	20 - 150
Di-n-butyl phthalate	2.00	2.28		ug/L		114	1 - 118
Di-n-octyl phthalate	2.00	1.79		ug/L		90	4 - 146
Dibenz(a,h)anthracene	2.00	1.98		ug/L		99	1 - 227
Dibenzofuran	2.00	1.89		ug/L		94	50 - 150
Diethyl phthalate	2.01	2.08		ug/L		103	1 - 114
Dimethyl phthalate	2.00	2.17		ug/L		108	1 - 112
Fluoranthene	2.00	2.10		ug/L		105	26 - 137
Fluorene	2.02	1.99		ug/L		98	59 - 121
Hexachlorobenzene	2.00	1.77		ug/L		89	1 - 152
Hexachlorobutadiene	2.00	1.48		ug/L		74	24 - 116
Hexachlorocyclopentadiene	2.00	ND		ug/L		49	20 - 150
Hexachloroethane	2.00	1.38		ug/L		69	40 - 113
Indeno[1,2,3-cd]pyrene	2.01	2.04		ug/L		101	1 - 171
Isophorone	2.00	1.88		ug/L		94	21 - 196
N-Nitrosodimethylamine	9.93	7.56		ug/L		76	20 - 150
N-Nitrosodiphenylamine	2.00	1.94		ug/L		97	50 - 150
Octadecane	1.99	1.80		ug/L		90	20 - 150
Naphthalene	2.01	1.79		ug/L		89	21 - 133
Nitrobenzene	2.01	1.84		ug/L		92	35 - 180
Pentachlorophenol	1.97	1.10		ug/L		56	14 - 176
Phenanthrene	2.01	1.90		ug/L		94	54 - 120
Phenol	2.03	1.61		ug/L		80	5 - 112
Pyrene	2.00	2.01		ug/L		101	52 - 115
1,2-Diphenylhydrazine (as Azobenzene)	1.99	1.96		ug/L		98	20 - 150
bis (2-chloroisopropyl) ether	2.00	1.82		ug/L		91	36 - 166
1-Methylnaphthalene	2.01	1.88		ug/L		93	20 - 150
TPAH	32.0	31.1		ug/L		97	50 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	93		47 - 137
2-Fluorobiphenyl	83		56 - 124

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-144051/2-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144051

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	79		20 - 122
Nitrobenzene-d5	93		59 - 123
Phenol-d5	82		20 - 123
Terphenyl-d14	98		60 - 135

Lab Sample ID: LCSD 580-144051/3-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 144051

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,2,4-Trichlorobenzene	2.00	1.72		ug/L		86	44 - 142	2	50	
1,2-Dichlorobenzene	2.00	1.80		ug/L		90	32 - 129	9	50	
1,3-Dichlorobenzene	2.00	1.79		ug/L		89	1 - 172	12	50	
1,4-Dichlorobenzene	2.00	1.66		ug/L		83	20 - 124	3	50	
2,4,5-Trichlorophenol	2.00	2.11		ug/L		105	50 - 150	11	50	
2,4,6-Trichlorophenol	1.99	2.05		ug/L		103	37 - 144	8	50	
2,4-Dichlorophenol	1.98	1.94		ug/L		98	39 - 135	7	50	
2,4-Dimethylphenol	1.98	ND		ug/L		76	32 - 119	7	50	
2,4-Dinitrophenol	9.87	8.28		ug/L		84	1 - 191	7	50	
2,4-Dinitrotoluene	2.00	2.41		ug/L		120	39 - 139	8	50	
2,6-Dinitrotoluene	2.00	2.12		ug/L		106	50 - 158	4	50	
2-Chloronaphthalene	2.00	1.81		ug/L		91	60 - 118	3	50	
2-Chlorophenol	1.98	1.99		ug/L		101	23 - 134	5	50	
2-Methylphenol	2.00	1.73		ug/L		86	44 - 113	2	50	
2-Nitrophenol	1.98	1.89		ug/L		95	29 - 182	2	50	
3,3'-Dichlorobenzidine	3.97	2.71		ug/L		68	1 - 262	0	50	
4,6-Dinitro-2-methylphenol	9.95	10.4		ug/L		104	1 - 181	13	50	
4-Bromophenyl phenyl ether	2.00	2.17		ug/L		108	53 - 127	8	50	
4-Chloro-3-methylphenol	2.04	2.07		ug/L		101	22 - 147	7	50	
4-Chlorophenyl phenyl ether	2.00	1.99		ug/L		100	25 - 158	7	50	
4-Nitrophenol	10.1	9.85		ug/L		98	1 - 132	0	50	
Acenaphthene	2.00	1.92		ug/L		96	47 - 145	6	50	
Acenaphthylene	2.00	1.98		ug/L		99	33 - 145	5	50	
Anthracene	2.00	1.70		ug/L		85	27 - 133	3	50	
2-Methylnaphthalene	2.00	1.88		ug/L		94	20 - 150	4	50	
Benzo[a]anthracene	2.00	1.95		ug/L		97	33 - 143	1	50	
Benzo[a]pyrene	2.00	1.72		ug/L		86	17 - 163	9	50	
Benzo[b]fluoranthene	2.00	2.40		ug/L		120	24 - 159	5	50	
Benzo[g,h,i]perylene	2.00	2.10		ug/L		105	1 - 219	2	50	
Benzo[k]fluoranthene	2.00	2.33		ug/L		116	11 - 162	7	50	
Bis(2-chloroethoxy)methane	2.00	2.01		ug/L		100	33 - 184	4	50	
Bis(2-chloroethyl)ether	2.00	1.83		ug/L		91	12 - 158	2	50	
Bis(2-ethylhexyl) phthalate	1.99	ND	*	ug/L		124	8 - 158	69	50	
Butyl benzyl phthalate	2.00	2.24		ug/L		112	1 - 152	4	50	
Carbazole	2.00	2.33		ug/L		116	45 - 135	11	50	
Chrysene	1.93	1.98		ug/L		103	17 - 168	3	50	
n-Decane	1.99	1.70		ug/L		85	20 - 150	6	50	
Di-n-butyl phthalate	2.00	2.42	*	ug/L		121	1 - 118	6	50	

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-144051/3-A

Matrix: Water

Analysis Batch: 144400

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 144051

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
							Limits	RPD	Limit	
Di-n-octyl phthalate	2.00	2.07		ug/L		103	4 - 146	14		50
Dibenz(a,h)anthracene	2.00	2.11		ug/L		105	1 - 227	6		50
Dibenzofuran	2.00	1.97		ug/L		98	50 - 150	4		50
Diethyl phthalate	2.01	2.25		ug/L		112	1 - 114	8		50
Dimethyl phthalate	2.00	2.30	*	ug/L		115	1 - 112	6		50
Fluoranthene	2.00	2.23		ug/L		111	26 - 137	6		50
Fluorene	2.02	2.13		ug/L		106	59 - 121	7		50
Hexachlorobenzene	2.00	1.90		ug/L		95	1 - 152	7		50
Hexachlorobutadiene	2.00	1.59		ug/L		80	24 - 116	8		50
Hexachlorocyclopentadiene	2.00	ND		ug/L		54	20 - 150	11		50
Hexachloroethane	2.00	1.59		ug/L		80	40 - 113	14		50
Indeno[1,2,3-cd]pyrene	2.01	2.17		ug/L		108	1 - 171	6		50
Isophorone	2.00	1.96		ug/L		98	21 - 196	4		50
N-Nitrosodimethylamine	9.93	7.76		ug/L		78	20 - 150	3		50
N-Nitrosodiphenylamine	2.00	2.11		ug/L		105	50 - 150	8		50
Octadecane	1.99	2.02		ug/L		101	20 - 150	12		50
Naphthalene	2.01	1.87		ug/L		93	21 - 133	4		50
Nitrobenzene	2.01	1.93		ug/L		96	35 - 180	5		50
Pentachlorophenol	1.97	1.34		ug/L		68	14 - 176	20		50
Phenanthrene	2.01	2.04		ug/L		102	54 - 120	7		50
Phenol	2.03	1.74		ug/L		86	5 - 112	8		50
Pyrene	2.00	2.13		ug/L		107	52 - 115	6		50
1,2-Diphenylhydrazine (as Azobenzene)	1.99	2.05		ug/L		103	20 - 150	5		50
bis (2-chloroisopropyl) ether	2.00	1.84		ug/L		92	36 - 166	1		50
1-Methylnaphthalene	2.01	1.93		ug/L		96	20 - 150	3		50
TPAH	32.0	32.8		ug/L		102	50 - 150	5		50

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	100		47 - 137
2-Fluorobiphenyl	86		56 - 124
2-Fluorophenol	89		20 - 122
Nitrobenzene-d5	100		59 - 123
Phenol-d5	89		20 - 123
Terphenyl-d14	106		60 - 135

Lab Sample ID: MB 580-144300/1-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144300

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/05/13 17:15	09/11/13 18:57	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
 Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-144300/1-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144300

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-Dimethylphenol	ND		2.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
2-Chloronaphthalene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
2-Chlorophenol	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
2-Methylphenol	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
2-Nitrophenol	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
4-Nitrophenol	ND		3.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
Acenaphthene	ND		0.10		ug/L		09/05/13 17:15	09/11/13 18:57	1
Acenaphthylene	ND		0.080		ug/L		09/05/13 17:15	09/11/13 18:57	1
Anthracene	ND		0.040		ug/L		09/05/13 17:15	09/11/13 18:57	1
2-Methylnaphthalene	ND		0.20		ug/L		09/05/13 17:15	09/11/13 18:57	1
Benzo[a]anthracene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
Benzo[a]pyrene	ND		0.040		ug/L		09/05/13 17:15	09/11/13 18:57	1
Benzo[b]fluoranthene	ND	^	0.080		ug/L		09/05/13 17:15	09/11/13 18:57	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/05/13 17:15	09/11/13 18:57	1
Carbazole	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Chrysene	ND		0.040		ug/L		09/05/13 17:15	09/11/13 18:57	1
n-Decane	ND		0.60		ug/L		09/05/13 17:15	09/11/13 18:57	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
Dibenzofuran	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Diethyl phthalate	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Dimethyl phthalate	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Fluoranthene	ND		0.050		ug/L		09/05/13 17:15	09/11/13 18:57	1
Fluorene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
Hexachlorobenzene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Hexachlorobutadiene	ND		0.60		ug/L		09/05/13 17:15	09/11/13 18:57	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
Hexachloroethane	ND		0.60		ug/L		09/05/13 17:15	09/11/13 18:57	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
Isophorone	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
N-Nitrosodimethylamine	ND		2.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Octadecane	0.505		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Naphthalene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-144300/1-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
Pentachlorophenol	ND		0.70		ug/L		09/05/13 17:15	09/11/13 18:57	1
Phenanthrene	ND		0.080		ug/L		09/05/13 17:15	09/11/13 18:57	1
Phenol	ND		0.60		ug/L		09/05/13 17:15	09/11/13 18:57	1
Pyrene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		1.0		ug/L		09/05/13 17:15	09/11/13 18:57	1
bis (2-chloroisopropyl) ether	ND		0.40		ug/L		09/05/13 17:15	09/11/13 18:57	1
1-Methylnaphthalene	ND		0.060		ug/L		09/05/13 17:15	09/11/13 18:57	1
TPAH	ND		0.040		ug/L		09/05/13 17:15	09/11/13 18:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		47 - 137	09/05/13 17:15	09/11/13 18:57	1
2-Fluorobiphenyl	74		56 - 124	09/05/13 17:15	09/11/13 18:57	1
2-Fluorophenol	70		20 - 122	09/05/13 17:15	09/11/13 18:57	1
Nitrobenzene-d5	86		59 - 123	09/05/13 17:15	09/11/13 18:57	1
Phenol-d5	73		20 - 123	09/05/13 17:15	09/11/13 18:57	1
Terphenyl-d14	102		60 - 135	09/05/13 17:15	09/11/13 18:57	1

Lab Sample ID: LCS 580-144300/2-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.53		ug/L		77	44 - 142
1,2-Dichlorobenzene	2.00	1.57		ug/L		78	32 - 129
1,3-Dichlorobenzene	2.00	1.55		ug/L		78	1 - 172
1,4-Dichlorobenzene	2.00	1.44		ug/L		72	20 - 124
2,4,5-Trichlorophenol	2.00	2.19		ug/L		109	50 - 150
2,4,6-Trichlorophenol	1.99	2.11		ug/L		106	37 - 144
2,4-Dichlorophenol	1.98	1.80		ug/L		91	39 - 135
2,4-Dimethylphenol	1.98	2.09		ug/L		106	32 - 119
2,4-Dinitrophenol	9.87	7.54		ug/L		76	1 - 191
2,4-Dinitrotoluene	2.00	2.38		ug/L		119	39 - 139
2,6-Dinitrotoluene	2.00	2.16		ug/L		108	50 - 158
2-Chloronaphthalene	2.00	1.77		ug/L		89	60 - 118
2-Chlorophenol	1.98	1.84		ug/L		93	23 - 134
2-Methylphenol	2.00	1.73		ug/L		87	44 - 113
2-Nitrophenol	1.98	1.73		ug/L		88	29 - 182
3,3'-Dichlorobenzidine	3.97	2.52		ug/L		64	1 - 262
4,6-Dinitro-2-methylphenol	9.95	10.0		ug/L		101	1 - 181
4-Bromophenyl phenyl ether	2.00	2.25		ug/L		112	53 - 127
4-Chloro-3-methylphenol	2.04	2.03		ug/L		100	22 - 147
4-Chlorophenyl phenyl ether	2.00	2.03		ug/L		102	25 - 158
4-Nitrophenol	10.1	10.2		ug/L		101	1 - 132
Acenaphthene	2.00	1.94		ug/L		97	47 - 145
Acenaphthylene	2.00	2.07		ug/L		103	33 - 145
Anthracene	2.00	2.19		ug/L		110	27 - 133

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-144300/2-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	2.00	1.74		ug/L		87	20 - 150
Benzo[a]anthracene	2.00	2.22		ug/L		111	33 - 143
Benzo[a]pyrene	2.00	2.08		ug/L		104	17 - 163
Benzo[b]fluoranthene	2.00	2.47	^	ug/L		123	24 - 159
Benzo[g,h,i]perylene	2.00	2.20		ug/L		110	1 - 219
Benzo[k]fluoranthene	2.00	2.32		ug/L		116	11 - 162
Bis(2-chloroethoxy)methane	2.00	1.89		ug/L		94	33 - 184
Bis(2-chloroethyl)ether	2.00	1.47		ug/L		74	12 - 158
Bis(2-ethylhexyl) phthalate	1.99	4.15	*	ug/L		208	8 - 158
Butyl benzyl phthalate	2.00	2.83		ug/L		141	1 - 152
Carbazole	2.00	2.45		ug/L		122	45 - 135
Chrysene	1.93	2.13		ug/L		111	17 - 168
n-Decane	1.99	1.54		ug/L		77	20 - 150
Di-n-butyl phthalate	2.00	2.75	*	ug/L		137	1 - 118
Di-n-octyl phthalate	2.00	2.23		ug/L		111	4 - 146
Dibenz(a,h)anthracene	2.00	2.11		ug/L		106	1 - 227
Dibenzofuran	2.00	1.99		ug/L		99	50 - 150
Diethyl phthalate	2.01	2.49	*	ug/L		124	1 - 114
Dimethyl phthalate	2.00	2.50	*	ug/L		125	1 - 112
Fluoranthene	2.00	2.36		ug/L		118	26 - 137
Fluorene	2.02	2.12		ug/L		105	59 - 121
Hexachlorobenzene	2.00	2.08		ug/L		104	1 - 152
Hexachlorobutadiene	2.00	1.42		ug/L		71	24 - 116
Hexachlorocyclopentadiene	2.00	ND		ug/L		49	20 - 150
Hexachloroethane	2.00	1.36		ug/L		68	40 - 113
Indeno[1,2,3-cd]pyrene	2.01	2.22		ug/L		110	1 - 171
Isophorone	2.00	2.02		ug/L		101	21 - 196
N-Nitrosodimethylamine	9.93	7.11		ug/L		72	20 - 150
N-Nitrosodiphenylamine	2.00	2.46		ug/L		123	50 - 150
Octadecane	1.99	2.70		ug/L		135	20 - 150
Naphthalene	2.01	1.68		ug/L		83	21 - 133
Nitrobenzene	2.01	1.80		ug/L		90	35 - 180
Pentachlorophenol	1.97	1.67		ug/L		85	14 - 176
Phenanthrene	2.01	2.18		ug/L		108	54 - 120
Phenol	2.03	1.88		ug/L		93	5 - 112
Pyrene	2.00	2.30		ug/L		115	52 - 115
1,2-Diphenylhydrazine (as Azobenzene)	1.99	2.15		ug/L		108	20 - 150
bis (2-chloroisopropyl) ether	2.00	1.67		ug/L		84	36 - 166
1-Methylnaphthalene	2.01	1.86		ug/L		93	20 - 150
TPAH	32.0	34.6		ug/L		108	50 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	104		47 - 137
2-Fluorobiphenyl	85		56 - 124
2-Fluorophenol	72		20 - 122
Nitrobenzene-d5	89		59 - 123
Phenol-d5	78		20 - 123

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-144300/2-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144300

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	110		60 - 135

Lab Sample ID: LCSD 580-144300/3-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 144300

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							Lower	Upper	RPD	Limit
1,2,4-Trichlorobenzene	2.00	1.64		ug/L		82	44 - 142	6	50	
1,2-Dichlorobenzene	2.00	1.69		ug/L		84	32 - 129	7	50	
1,3-Dichlorobenzene	2.00	1.61		ug/L		81	1 - 172	4	50	
1,4-Dichlorobenzene	2.00	1.55		ug/L		77	20 - 124	7	50	
2,4,5-Trichlorophenol	2.00	2.14		ug/L		107	50 - 150	2	50	
2,4,6-Trichlorophenol	1.99	2.14		ug/L		108	37 - 144	1	50	
2,4-Dichlorophenol	1.98	1.76		ug/L		89	39 - 135	2	50	
2,4-Dimethylphenol	1.98	ND		ug/L		96	32 - 119	9	50	
2,4-Dinitrophenol	9.87	7.39		ug/L		75	1 - 191	2	50	
2,4-Dinitrotoluene	2.00	2.35		ug/L		117	39 - 139	1	50	
2,6-Dinitrotoluene	2.00	2.20		ug/L		110	50 - 158	2	50	
2-Chloronaphthalene	2.00	1.82		ug/L		91	60 - 118	2	50	
2-Chlorophenol	1.98	1.89		ug/L		96	23 - 134	3	50	
2-Methylphenol	2.00	1.79		ug/L		90	44 - 113	3	50	
2-Nitrophenol	1.98	1.64		ug/L		83	29 - 182	6	50	
3,3'-Dichlorobenzidine	3.97	2.87		ug/L		72	1 - 262	13	50	
4,6-Dinitro-2-methylphenol	9.95	9.15		ug/L		92	1 - 181	9	50	
4-Bromophenyl phenyl ether	2.00	2.18		ug/L		109	53 - 127	3	50	
4-Chloro-3-methylphenol	2.04	1.92		ug/L		94	22 - 147	5	50	
4-Chlorophenyl phenyl ether	2.00	2.03		ug/L		102	25 - 158	0	50	
4-Nitrophenol	10.1	10.4		ug/L		103	1 - 132	2	50	
Acenaphthene	2.00	1.98		ug/L		99	47 - 145	2	50	
Acenaphthylene	2.00	2.02		ug/L		101	33 - 145	2	50	
Anthracene	2.00	1.95		ug/L		97	27 - 133	12	50	
2-Methylnaphthalene	2.00	1.71		ug/L		85	20 - 150	2	50	
Benzo[a]anthracene	2.00	2.12		ug/L		106	33 - 143	5	50	
Benzo[a]pyrene	2.00	2.06		ug/L		103	17 - 163	1	50	
Benzo[b]fluoranthene	2.00	2.24 ^		ug/L		112	24 - 159	10	50	
Benzo[g,h,i]perylene	2.00	2.12		ug/L		106	1 - 219	4	50	
Benzo[k]fluoranthene	2.00	2.11		ug/L		106	11 - 162	10	50	
Bis(2-chloroethoxy)methane	2.00	2.05		ug/L		102	33 - 184	8	50	
Bis(2-chloroethyl)ether	2.00	1.56		ug/L		78	12 - 158	6	50	
Bis(2-ethylhexyl) phthalate	1.99	6.23 *		ug/L		312	8 - 158	40	50	
Butyl benzyl phthalate	2.00	2.57		ug/L		128	1 - 152	10	50	
Carbazole	2.00	2.29		ug/L		115	45 - 135	6	50	
Chrysene	1.93	1.99		ug/L		103	17 - 168	7	50	
n-Decane	1.99	1.57		ug/L		79	20 - 150	2	50	
Di-n-butyl phthalate	2.00	2.50 *		ug/L		125	1 - 118	9	50	
Di-n-octyl phthalate	2.00	2.11		ug/L		105	4 - 146	5	50	
Dibenz(a,h)anthracene	2.00	2.07		ug/L		104	1 - 227	2	50	
Dibenzofuran	2.00	2.00		ug/L		100	50 - 150	1	50	

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-144300/3-A

Matrix: Water

Analysis Batch: 144719

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 144300

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit	RPD	Limit
Diethyl phthalate	2.01	2.26		ug/L		112	1 - 114	10	50	
Dimethyl phthalate	2.00	2.40	*	ug/L		120	1 - 112	4	50	
Fluoranthene	2.00	2.21		ug/L		110	26 - 137	7	50	
Fluorene	2.02	2.17		ug/L		107	59 - 121	2	50	
Hexachlorobenzene	2.00	1.90		ug/L		95	1 - 152	9	50	
Hexachlorobutadiene	2.00	1.47		ug/L		74	24 - 116	4	50	
Hexachlorocyclopentadiene	2.00	ND		ug/L		57	20 - 150	15	50	
Hexachloroethane	2.00	1.44		ug/L		72	40 - 113	6	50	
Indeno[1,2,3-cd]pyrene	2.01	2.12		ug/L		105	1 - 171	5	50	
Isophorone	2.00	2.01		ug/L		101	21 - 196	0	50	
N-Nitrosodimethylamine	9.93	6.90		ug/L		69	20 - 150	3	50	
N-Nitrosodiphenylamine	2.00	2.39		ug/L		120	50 - 150	3	50	
Octadecane	1.99	2.52		ug/L		126	20 - 150	7	50	
Naphthalene	2.01	1.77		ug/L		88	21 - 133	5	50	
Nitrobenzene	2.01	1.90		ug/L		95	35 - 180	5	50	
Pentachlorophenol	1.97	1.43		ug/L		73	14 - 176	16	50	
Phenanthrene	2.01	2.06		ug/L		102	54 - 120	6	50	
Phenol	2.03	1.73		ug/L		85	5 - 112	8	50	
Pyrene	2.00	2.12		ug/L		106	52 - 115	8	50	
1,2-Diphenylhydrazine (as Azobenzene)	1.99	2.05		ug/L		103	20 - 150	5	50	
bis (2-chloroisopropyl) ether	2.00	1.73		ug/L		87	36 - 166	3	50	
1-Methylnaphthalene	2.01	1.91		ug/L		95	20 - 150	2	50	
TPAH	32.0	33.1		ug/L		104	50 - 150	4	50	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	97		47 - 137
2-Fluorobiphenyl	90		56 - 124
2-Fluorophenol	85		20 - 122
Nitrobenzene-d5	91		59 - 123
Phenol-d5	82		20 - 123
Terphenyl-d14	105		60 - 135

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 580-144589/1-A

Matrix: Water

Analysis Batch: 144568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144589

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (nC10-<nC25)	ND		0.10		mg/L		09/10/13 10:09	09/10/13 16:27	1
RRO (nC25-<nC36)	ND		0.10		mg/L		09/10/13 10:09	09/10/13 16:27	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	68		50 - 150	09/10/13 10:09	09/10/13 16:27	1
n-Triacontane-d62	72		50 - 150	09/10/13 10:09	09/10/13 16:27	1

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

(Continued)

Lab Sample ID: LCS 580-144589/2-A

Matrix: Water

Analysis Batch: 144568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
DRO (nC10-<nC25)	0.500	0.322	*	mg/L		64	75 - 125	
RRO (nC25-nC36)	0.500	0.410		mg/L		82	60 - 120	
Surrogate		LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl		67		50 - 150				
<i>n</i> -Triacontane-d62		63		50 - 150				

Lab Sample ID: LCSD 580-144589/3-A

Matrix: Water

Analysis Batch: 144568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 144589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
									RPD	Limit
DRO (nC10-<nC25)	0.500	0.358	*	mg/L		72	75 - 125	11	20	
RRO (nC25-nC36)	0.500	0.453		mg/L		91	60 - 120	10	20	
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl		71		50 - 150						
<i>n</i> -Triacontane-d62		67		50 - 150						

Lab Sample ID: MB 580-144764/1-A

Matrix: Water

Analysis Batch: 144769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144764

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (nC10-<nC25)	ND		0.10		mg/L		09/12/13 08:30	09/12/13 14:57	1
RRO (nC25-nC36)	ND		0.10		mg/L		09/12/13 08:30	09/12/13 14:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	81		50 - 150			09/12/13 08:30	09/12/13 14:57	1	
<i>n</i> -Triacontane-d62	70		50 - 150			09/12/13 08:30	09/12/13 14:57	1	

Lab Sample ID: LCS 580-144764/2-A

Matrix: Water

Analysis Batch: 144769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
DRO (nC10-<nC25)	0.500	0.434		mg/L		87	75 - 125	
RRO (nC25-nC36)	0.500	0.428		mg/L		86	60 - 120	
Surrogate		LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl		89		50 - 150				
<i>n</i> -Triacontane-d62		76		50 - 150				

TestAmerica Seattle

QC Sample Results

Client: Carson Dorn, Inc
 Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

(Continued)

Lab Sample ID: LCSD 580-144764/3-A

Matrix: Water

Analysis Batch: 144769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 144764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)	0.500	0.447		mg/L		89	75 - 125	3	20
RRO (nC25-nC36)	0.500	0.439		mg/L		88	60 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	91		50 - 150
<i>n</i> -Triacontane-d62	79		50 - 150

Lab Chronicle

Client: Carson Dorn, Inc
 Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Client Sample ID: MW-1

Lab Sample ID: 580-40019-1

Date Collected: 08/27/13 12:05

Matrix: Water

Date Received: 08/28/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	144457	09/10/13 00:51	EB1	TAL SEA
Total/NA	Analysis	TAqH		1	145251	09/18/13 12:53	PRJ	TAL SEA
Total/NA	Prep	CWA_Prep			144051	09/03/13 10:32	ALC	TAL SEA
Total/NA	Analysis	625		1	144400	09/06/13 22:26	ERB	TAL SEA
Total/NA	Prep	3510C			144589	09/10/13 10:09	RBL	TAL SEA
Total/NA	Analysis	AK102 & 103		1	144568	09/10/13 16:44	JL1	TAL SEA
Total/NA	Prep	3510C	RE		144764	09/12/13 08:30	EKK	TAL SEA
Total/NA	Analysis	AK102 & 103	RE	1	144769	09/12/13 15:15	JL1	TAL SEA

Client Sample ID: MW-2

Lab Sample ID: 580-40019-2

Date Collected: 08/27/13 11:00

Matrix: Water

Date Received: 08/28/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	144457	09/10/13 01:20	EB1	TAL SEA
Total/NA	Analysis	TAqH		1	145251	09/18/13 12:53	PRJ	TAL SEA
Total/NA	Prep	CWA_Prep			144300	09/05/13 17:15	ALC	TAL SEA
Total/NA	Analysis	625		1	144719	09/11/13 20:16	ERB	TAL SEA
Total/NA	Prep	3510C			144589	09/10/13 10:09	RBL	TAL SEA
Total/NA	Analysis	AK102 & 103		1	144568	09/10/13 17:02	JL1	TAL SEA

Client Sample ID: MW-11

Lab Sample ID: 580-40019-3

Date Collected: 08/27/13 13:20

Matrix: Water

Date Received: 08/28/13 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	144457	09/10/13 01:50	EB1	TAL SEA
Total/NA	Analysis	TAqH		1	145251	09/18/13 12:53	PRJ	TAL SEA
Total/NA	Prep	CWA_Prep			144051	09/03/13 10:32	ALC	TAL SEA
Total/NA	Analysis	625		1	144400	09/06/13 22:53	ERB	TAL SEA
Total/NA	Prep	3510C			144589	09/10/13 10:09	RBL	TAL SEA
Total/NA	Analysis	AK102 & 103		1	144568	09/10/13 17:20	JL1	TAL SEA
Total/NA	Prep	3510C	RE		144764	09/12/13 08:30	EKK	TAL SEA
Total/NA	Analysis	AK102 & 103	RE	1	144769	09/12/13 15:33	JL1	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Sample Summary

Client: Carson Dorn, Inc
Project/Site: MWWTP Juneau, AK

TestAmerica Job ID: 580-40019-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-40019-1	MW-1	Water	08/27/13 12:05	08/28/13 16:45
580-40019-2	MW-2	Water	08/27/13 11:00	08/28/13 16:45
580-40019-3	MW-11	Water	08/27/13 13:20	08/28/13 16:45

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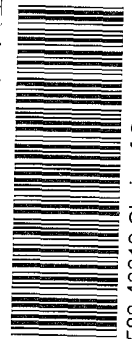
11

Rush
 Short Hold

Chain of Custody Record

Client: **CARSON DOWN, INC.** Chain of Custody Number: **19673**
 Address: **412 W 12th St.** Lab Number: **3840019** Page **1** of **1**
 City: **JUNEAU** State: **AK** Zip Code: **99801** Lab Contact: **J. COX**
 Project Name and Location (State): **MINNIP JUNEAU (AK)** Billing Contact: **J. COX**
 Contract/Purchase Order/Quote No.:

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
MW-1	8-27-13	12:05	X							X	X	X	X	X	3-1L Amber-HCL
MW-2	8-27-13	11:00	X							X	X	X	X	X	2-1L Amber-HCL
MW-11	8-27-13	13:20	X							X	X	X	X	X	3-40 ML HCL



Cooler/IB DigIR cor 4.2 unc 4.2
 Cooler Dsc Lc Red/Wind @ Lab 1645
 Wet/Packs Packing B4bb/e
 w/o AI

Cooler: Yes No Cooler Temp: _____
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____
 Turn Around Time Required (business days): 24 Hours 48 Hours 5 Days 10 Days 15 Days Other _____
 QC Requirements (Specify):
 1. Relinquished By: **J. COX** Date: **8-27-13** Time: **14:00**
 2. Relinquished By: **J. COX** Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: **Francisco Lung, Jr.** Date: **8/28/13** Time: **1645**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____
 Comments:



Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 580-40019-1

Login Number: 40019

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Laboratory Data Review Checklist

Completed by:	Jolene Cox		
Title:	Environmental Professional	Date:	May 20, 2014
CS Report Name:	Mendenhall Waste Water Treatment Plant	Report Date:	Sep 19, 2013
Consultant Firm:	Carson Dorn, Inc.		
Laboratory Name:	TestAmerica	Laboratory Report Number:	580-40019-1
ADEC File Number:		ADEC RecKey Number:	

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No NA (Please explain.) Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No NA (Please explain) Comments:

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No NA (Please explain) Comments:

b. Correct analyses requested?

Yes No NA (Please explain) Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?

Yes No NA (Please explain) Comments:

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain) Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain) Comments:

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA (Please explain) Comments:

e. Data quality or usability affected? (Please explain)

Comments:

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain) Comments:

The method blank for preparation batch 144457 contained methylene chloride above the reporting limit.

c. Were all corrective actions documented?

Yes No NA (Please explain) Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain)

Comments:

b. All applicable holding times met?

Yes No NA (Please explain)

Comments:

In analytical batch 144769, the following samples MW-1 and MW-11 from preparation batch 144764 was re-prepared outside of preparation holding time due to LCS/LCSD were failing low for DRO range in original preparation batch 144568. The data have been qualified "H" and reported. The LCS and LCSD meet acceptance criteria in the re-extracted results, and both sets of data have been reported. The sample MW-2 was prepared outside of hold for re-extraction. In the original batch the extract boiled dry while extracting the basic portion because the condenser was not properly on the extraction body. The data have been qualified "H" and reported.

c. All soils reported on a dry weight basis?

Yes No NA (Please explain)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA (Please explain)

Comments:

e. Data quality or usability affected? (Please explain)

Comments:

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes No NA (Please explain)

Comments:

Octadecane was detected in method blank MB 580-144300/1-A at a level that was above the reporting limit (RL).

iii. If above PQL, what samples are affected?

Comments:

None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain)

Comments:

v. Data quality or usability affected? (Please explain)

Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No NA (Please explain)

Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

The LCS and / or the LCSD for prep batch 144051 recovered outside control limits for 3 analytes. The associated samples are non detect for the affected analytes except for sample MW-1 (580-40019-1) which has a hit above the RL for bis-2-ethyl hexyl phthalate. This is a known lab contaminant and is probably high in the LCS due to lab contamination. There is no additional sample remaining, so the data have qualified "*" and reported. The LCS for prep batch 144300 recovered outside acceptance limits high for 4 analytes. The associated sample is non detect for all failing analytes except di-n-butyl phthalate, which has a detection above the RL. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been qualified "*" and reported. The continuing calibration verification (CCV) for analytical batch 144719 recovered high for benzo(b) fluoranthene. The associated sample is non detect for this analyte and the LCS/LCSD recovery is not affected by the high bias. The data have been qualified "^" and reported. In analytical batch 144568, the LCS and the LCSD for analytical batch 144589 recovered below the lower control limits for DRO. The data have been qualified "*" and reported. The associated samples MW-1 and MW-11 were re-prepared outside holding time. The data have been qualified "H" and reported. Both sets of data will be reported. In analytical batch 144568, the LCS and LCSD for preparation batch 144589 recovered below the lower acceptance limits for DRO. There was insufficient sample volume for sample MW-2 to perform a re-extraction or re-analysis; therefore, the data have been qualified "*" and reported.

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

vii. Data quality or usability affected? (Please explain)

Comments:

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes No NA (Please explain) Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No NA (Please explain) Comments:

Surrogate recovery for the following sample MW-1 (580-40019-1) was outside control limits.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

Evidence of matrix interference is present;therefore, re-extraction and/or re-analysis was not performed.

iv. Data quality or usability affected? (Use the comment box to explain.).

Comments:

The data have been qualified "X" and reported.

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No NA (Please explain.) Comments:

iii. All results less than PQL?

Yes No NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain)

Comments:

ii. Submitted blind to lab?

Yes No NA (Please explain.)

Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA (Please explain)

Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain)

Comments:

f. Decontamination or Equipment Blank (if applicable)

Yes No NA (Please explain)

Comments:

i. All results less than PQL?

Yes No NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No NA (Please explain)

Comments:

Reset Form

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Anchorage

2000 West International Airport Road Suite A10

Anchorage, AK 99502-1119

Tel: (907) 563-9200

TestAmerica Job ID: AWH0065

Client Project/Site: [none]

Client Project Description: MWWTP

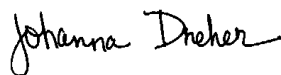
For:

Carson Dorn, Inc.

712 W. 12th Street

Juneau, AK/USA 99801

Attn: Jolene Cox



Authorized for release by:

9/5/2013 10:38:55 AM

Johanna L Dreher, Client Services Manager

johanna.dreher@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Qualifiers

Fuels

Qualifier	Qualifier Description
Q2	Typical pattern for diesel
Q11	Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Job ID: AWH0065

Laboratory: TestAmerica Anchorage

Narrative

Receipt

Samples were received on 08/28/2013 at 11:47 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

The temperature of the cooler at receipt was 3.7° C.

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Detection Summary

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Client Sample ID: MW-10

Lab Sample ID: AWH0065-01

No Detections.

Client Sample ID: MW-13

Lab Sample ID: AWH0065-02

No Detections.

Client Sample ID: MW-7

Lab Sample ID: AWH0065-03

No Detections.

Client Sample ID: MW-3

Lab Sample ID: AWH0065-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	11.3		0.394		mg/l	1.00		AK102/103	Total
Residual Range Organics	0.979		0.394		mg/l	1.00		AK102/103	Total

Client Sample ID: NMW-2

Lab Sample ID: AWH0065-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	35.4	Q2	0.407		mg/l	1.00		AK102/103	Total
Residual Range Organics	1.17		0.407		mg/l	1.00		AK102/103	Total

Client Sample ID: MW-D

Lab Sample ID: AWH0065-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	12.2	Q11	0.403		mg/l	1.00		AK102/103	Total
Residual Range Organics	1.08		0.403		mg/l	1.00		AK102/103	Total

This Detection Summary does not include radiochemical test results.

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Client Sample ID: MW-10

Date Collected: 08/27/13 10:10

Date Received: 08/28/13 11:47

Lab Sample ID: AWH0065-01

Matrix: Water

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.391		mg/l		09/03/13 08:55	09/03/13 16:24	1.00
Residual Range Organics	ND		0.391		mg/l		09/03/13 08:55	09/03/13 16:24	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	95.5		50 - 150				09/03/13 08:55	09/03/13 16:24	1.00
Triacontane	101		50 - 150				09/03/13 08:55	09/03/13 16:24	1.00

Client Sample ID: MW-13

Date Collected: 08/27/13 14:25

Date Received: 08/28/13 11:47

Lab Sample ID: AWH0065-02

Matrix: Water

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.382		mg/l		09/03/13 08:55	09/03/13 16:56	1.00
Residual Range Organics	ND		0.382		mg/l		09/03/13 08:55	09/03/13 16:56	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98.7		50 - 150				09/03/13 08:55	09/03/13 16:56	1.00
Triacontane	104		50 - 150				09/03/13 08:55	09/03/13 16:56	1.00

Client Sample ID: MW-7

Date Collected: 08/27/13 14:50

Date Received: 08/28/13 11:47

Lab Sample ID: AWH0065-03

Matrix: Water

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.400		mg/l		09/03/13 08:55	09/03/13 17:29	1.00
Residual Range Organics	ND		0.400		mg/l		09/03/13 08:55	09/03/13 17:29	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93.6		50 - 150				09/03/13 08:55	09/03/13 17:29	1.00
Triacontane	99.0		50 - 150				09/03/13 08:55	09/03/13 17:29	1.00

Client Sample ID: MW-3

Date Collected: 08/27/13 15:12

Date Received: 08/28/13 11:47

Lab Sample ID: AWH0065-04

Matrix: Water

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	11.3		0.394		mg/l		09/03/13 08:55	09/03/13 18:01	1.00
Residual Range Organics	0.979		0.394		mg/l		09/03/13 08:55	09/03/13 18:01	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	101		50 - 150				09/03/13 08:55	09/03/13 18:01	1.00
Triacontane	105		50 - 150				09/03/13 08:55	09/03/13 18:01	1.00

TestAmerica Anchorage

Client Sample Results

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Client Sample ID: NMW-2

Lab Sample ID: AWH0065-05

Date Collected: 08/27/13 13:55

Matrix: Water

Date Received: 08/28/13 11:47

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	35.4	Q2	0.407		mg/l		09/03/13 08:55	09/03/13 18:33	1.00
Residual Range Organics	1.17		0.407		mg/l		09/03/13 08:55	09/03/13 18:33	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	111		50 - 150				09/03/13 08:55	09/03/13 18:33	1.00
Triacontane	107		50 - 150				09/03/13 08:55	09/03/13 18:33	1.00

Client Sample ID: MW-D

Lab Sample ID: AWH0065-06

Date Collected: 08/27/13 15:20

Matrix: Water

Date Received: 08/28/13 11:47

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	12.2	Q11	0.403		mg/l		09/03/13 08:55	09/03/13 19:05	1.00
Residual Range Organics	1.08		0.403		mg/l		09/03/13 08:55	09/03/13 19:05	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	96.7		50 - 150				09/03/13 08:55	09/03/13 19:05	1.00
Triacontane	101		50 - 150				09/03/13 08:55	09/03/13 19:05	1.00

Surrogate Summary

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36)

per AK102/RRO

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1COD (50-150)	TC (50-150)
13I0002-BLK1	Method Blank	98.5	106
13I0002-DUP1	Duplicate	87.9	97.0
13I0002-MS1	Matrix Spike	105	97.9
13I0002-MSD1	Matrix Spike Duplicate	99.6	104
AWH0065-01	MW-10	95.5	101
AWH0065-02	MW-13	98.7	104
AWH0065-03	MW-7	93.6	99.0
AWH0065-04	MW-3	101	105
AWH0065-05	NMW-2	111	107
AWH0065-06	MW-D	96.7	101

Surrogate Legend
1COD = 1-Chlorooctadecane
TC = Triacontane

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36)

per AK102/RRO

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1COD (60-120)	TC (60-120)
13I0002-BS1	Lab Control Sample	106	105
13I0002-BSD1	Lab Control Sample Dup	92.8	92.5

Surrogate Legend
1COD = 1-Chlorooctadecane
TC = Triacontane

QC Sample Results

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Lab Sample ID: 13I0002-BLK1

Matrix: Water

Analysis Batch: W000464

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 13I0002_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.500		mg/l		09/03/13 08:55	09/03/13 14:48	1.00
Residual Range Organics	ND		0.500		mg/l		09/03/13 08:55	09/03/13 14:48	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98.5		50 - 150	09/03/13 08:55	09/03/13 14:48	1.00
Triacontane	106		50 - 150	09/03/13 08:55	09/03/13 14:48	1.00

Lab Sample ID: 13I0002-BS1

Matrix: Water

Analysis Batch: W000464

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 13I0002_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics	10.3	9.80		mg/l		95.1	75 - 125
Residual Range Organics	10.3	10.6		mg/l		103	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	106		60 - 120
Triacontane	105		60 - 120

Lab Sample ID: 13I0002-BSD1

Matrix: Water

Analysis Batch: W000464

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 13I0002_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics	10.3	8.81		mg/l		85.5	75 - 125	10.6	20
Residual Range Organics	10.3	9.59		mg/l		93.2	60 - 120	9.94	20

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
1-Chlorooctadecane	92.8		60 - 120
Triacontane	92.5		60 - 120

Lab Sample ID: 13I0002-MS1

Matrix: Water

Analysis Batch: W000463

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 13I0002_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics	14.5		8.17	21.6		mg/l		86.3	75 - 125
Residual Range Organics	1.03		8.17	7.97		mg/l		85.0	60 - 120

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
1-Chlorooctadecane	105		50 - 150
Triacontane	97.9		50 - 150

TestAmerica Anchorage

QC Sample Results

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO (Continued)

Lab Sample ID: 13I0002-MSD1

Matrix: Water

Analysis Batch: W000463

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 13I0002_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Diesel Range Organics	14.5		8.17	21.7		mg/l		87.6	75 - 125	0.496	25
Residual Range Organics	1.03		8.17	8.23		mg/l		88.1	60 - 120	3.19	25

Matrix Spike Dup Matrix Spike Dup

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	99.6		50 - 150
Triacontane	104		50 - 150

Lab Sample ID: 13I0002-DUP1

Matrix: Water

Analysis Batch: W000463

Client Sample ID: Duplicate

Prep Type: Total

Prep Batch: 13I0002_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics	14.5		14.4		mg/l		0.696	20
Residual Range Organics	1.03		1.11		mg/l		7.60	20

Duplicate Duplicate

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	87.9		50 - 150
Triacontane	97.0		50 - 150

QC Association Summary

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Fuels

Analysis Batch: W000463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13I0002-DUP1	Duplicate	Total	Water	AK102/103	13I0002_P
13I0002-MS1	Matrix Spike	Total	Water	AK102/103	13I0002_P
13I0002-MSD1	Matrix Spike Duplicate	Total	Water	AK102/103	13I0002_P

Analysis Batch: W000464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13I0002-BLK1	Method Blank	Total	Water	AK102/103	13I0002_P
13I0002-BS1	Lab Control Sample	Total	Water	AK102/103	13I0002_P
13I0002-BSD1	Lab Control Sample Dup	Total	Water	AK102/103	13I0002_P
AWH0065-01	MW-10	Total	Water	AK102/103	13I0002_P
AWH0065-02	MW-13	Total	Water	AK102/103	13I0002_P
AWH0065-03	MW-7	Total	Water	AK102/103	13I0002_P
AWH0065-04	MW-3	Total	Water	AK102/103	13I0002_P
AWH0065-05	NMW-2	Total	Water	AK102/103	13I0002_P
AWH0065-06	MW-D	Total	Water	AK102/103	13I0002_P

Prep Batch: 13I0002_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13I0002-BLK1	Method Blank	Total	Water	EPA 3510	
13I0002-BS1	Lab Control Sample	Total	Water	EPA 3510	
13I0002-BSD1	Lab Control Sample Dup	Total	Water	EPA 3510	
13I0002-DUP1	Duplicate	Total	Water	EPA 3510	
13I0002-MS1	Matrix Spike	Total	Water	EPA 3510	
13I0002-MSD1	Matrix Spike Duplicate	Total	Water	EPA 3510	
AWH0065-01	MW-10	Total	Water	EPA 3510	
AWH0065-02	MW-13	Total	Water	EPA 3510	
AWH0065-03	MW-7	Total	Water	EPA 3510	
AWH0065-04	MW-3	Total	Water	EPA 3510	
AWH0065-05	NMW-2	Total	Water	EPA 3510	
AWH0065-06	MW-D	Total	Water	EPA 3510	

Lab Chronicle

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Client Sample ID: MW-10

Lab Sample ID: AWH0065-01

Date Collected: 08/27/13 10:10

Matrix: Water

Date Received: 08/28/13 11:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510		0.781	13I0002_P	09/03/13 08:55	KDC	TAL ANC
Total	Analysis	AK102/103		1.00	W000464	09/03/13 16:24	KDC	TAL ANC

Client Sample ID: MW-13

Lab Sample ID: AWH0065-02

Date Collected: 08/27/13 14:25

Matrix: Water

Date Received: 08/28/13 11:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510		0.763	13I0002_P	09/03/13 08:55	KDC	TAL ANC
Total	Analysis	AK102/103		1.00	W000464	09/03/13 16:56	KDC	TAL ANC

Client Sample ID: MW-7

Lab Sample ID: AWH0065-03

Date Collected: 08/27/13 14:50

Matrix: Water

Date Received: 08/28/13 11:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510		0.800	13I0002_P	09/03/13 08:55	KDC	TAL ANC
Total	Analysis	AK102/103		1.00	W000464	09/03/13 17:29	KDC	TAL ANC

Client Sample ID: MW-3

Lab Sample ID: AWH0065-04

Date Collected: 08/27/13 15:12

Matrix: Water

Date Received: 08/28/13 11:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510		0.787	13I0002_P	09/03/13 08:55	KDC	TAL ANC
Total	Analysis	AK102/103		1.00	W000464	09/03/13 18:01	KDC	TAL ANC

Client Sample ID: NMW-2

Lab Sample ID: AWH0065-05

Date Collected: 08/27/13 13:55

Matrix: Water

Date Received: 08/28/13 11:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510		0.813	13I0002_P	09/03/13 08:55	KDC	TAL ANC
Total	Analysis	AK102/103		1.00	W000464	09/03/13 18:33	KDC	TAL ANC

Client Sample ID: MW-D

Lab Sample ID: AWH0065-06

Date Collected: 08/27/13 15:20

Matrix: Water

Date Received: 08/28/13 11:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510		0.806	13I0002_P	09/03/13 08:55	KDC	TAL ANC
Total	Analysis	AK102/103		1.00	W000464	09/03/13 19:05	KDC	TAL ANC

TestAmerica Anchorage

Lab Chronicle

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road Suite A10, Anchorage, AK 99502-1119, TEL (907) 563-9200

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- 13
- 14

Certification Summary

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Laboratory: TestAmerica Anchorage

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	AK00975	06-30-14
Alaska (UST)	State Program	10	UST-067	06-16-14

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Method Summary

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Method	Method Description	Protocol	Laboratory
AK102/103	Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO		TAL ANC

Protocol References:

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road Suite A10, Anchorage, AK 99502-1119, TEL (907) 563-9200

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- 14

Sample Summary

Client: Carson Dorn, Inc.
Project/Site: [none]

TestAmerica Job ID: AWH0065

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
AWH0065-01	MW-10	Water	08/27/13 10:10	08/28/13 11:47
AWH0065-02	MW-13	Water	08/27/13 14:25	08/28/13 11:47
AWH0065-03	MW-7	Water	08/27/13 14:50	08/28/13 11:47
AWH0065-04	MW-3	Water	08/27/13 15:12	08/28/13 11:47
AWH0065-05	NMW-2	Water	08/27/13 13:55	08/28/13 11:47
AWH0065-06	MW-D	Water	08/27/13 15:20	08/28/13 11:47

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- 13
- 14

Rush
 Short Hold

Chain of Custody Record

AW140065

Client: CARSON DORN, INC. Chain of Custody Number: 19674
 Address: 412 W 17th St Date: 8.27.13
 City: JUNEAU State: AK Zip Code: 99801 Lab Number: _____ Page _____ of _____
 Project Name and Location (State): MINNTP JUNEAU (AK) Lab Contact: J. COX
 Contract/Purchase Order/Quote No.: _____ Billing Contact: _____
 Client Contact: JOLANE COX Telephone Number (Area Code) Fax: 907.586.4447

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
01 MW-10	8-27-13	10:10	X								X				2-15D ml HCL
02 MW-12	8-27-13	14:25	X								X				
03 MW-7	8-27-13	14:50	X								X				
04 MW-3	8-27-13	15:12	X								X				
05 NMW-2	8-27-13	15:00	X								X				
06 MW-8	8-27-13	15:20	X								X				

QC Requirements (Specify) _____

Sample Disposal: Disposal By Lab Return To Client Unknown Poison B Skin Irritant Flammable Non-Hazard Possible Hazard Identification

Turn Around Time Required (business days): 24 Hours 48 Hours 5 Days 10 Days 15 Days Other _____

1. Relinquished By: JOLANE COX Date: 8.27.13 Time: 19:00
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: _____

Test America Cooler Receipt Form

(Army Corps. Compliant)

WORK ORDER # AWH0065 CLIENT: Carson Dam PROJECT: M/LWTP

Date/Time Cooler Arrived 8/28/13 11:47 Cooler signed for by: Andrew Pilch
(Printname)

Preliminary Examination Phase:

Date cooler opened: same as date received or 1/1

Cooler opened by (print) Andrew Pilch (sign) Am Pi

1. Delivered by: ALASKA AIRLINES Fed-Ex UPS NAC LYNDEN CLIENT Other

Shipment Tracking # if applicable: 027-8698 0460 (include copy of shipping papers in file)

2. Number of Custody Seals 0 Signed by _____ Date 1/1

Were custody seals unbroken and intact on arrival? Yes No

3. Were custody papers sealed in a plastic bag? Yes No

4. Were custody papers filled out properly (ink, signed, etc.)? Yes No

5. Did you sign the custody papers in the appropriate places? Yes No

6. Was ice used? Yes No Type of ice: blue ice gel ice real ice dry ice Condition of ice: mostly melted

Temperature 3.7 °C (corrected) Thermometer # IR Gun

7. Packing in Cooler: bubble wrap styrofoam cardboard Other _____

8. Did samples arrive in plastic bags? Yes No

9. Did all bottles arrive unbroken, and with labels in good condition? Yes No

10. Are all bottle labels complete (ID, date, time, etc.)? Yes No

11. Do bottle labels and Chain of Custody agree? Yes No

12. Are the containers and preservatives correct for the tests indicated? Yes No

13. Conoco Phillips, Alyeska, BP H2O samples only, pH <2? Yes No N/A

14. Is there adequate volume for the tests requested? Yes No

14. Is there dry weight volume provided? Yes No

15. Were VOA vials free of bubbles? N/A Yes No

If "NO" which containers contained "head space" or bubbles? _____

16. Are methanol soils immersed in methanol? Yes No N/A

Log-in Phase:

Date of sample log-in 8/28/13

Samples logged in by (print) Andrew Pilch (sign) Am Pi

1. Was project identifiable from custody papers? Yes No

2. Do Turn Around Times and Due Dates agree? Yes No

3. Was the Project Manager notified of status? Yes No

4. Was the Lab notified of status? Yes No

5. Was the COC scanned and copied? Yes No

Laboratory Data Review Checklist

Completed by:	Jolene Cox		
Title:	Environmental Professional	Date:	May 20, 2014
CS Report Name:	Mendenhall Waste Water Treatment Plant	Report Date:	Sep 5, 2013
Consultant Firm:	Carson Dorn, Inc.		
Laboratory Name:	TestAmerica	Laboratory Report Number:	AWH0065
ADEC File Number:		ADEC RecKey Number:	

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No NA (Please explain.) Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No NA (Please explain) Comments:

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No NA (Please explain) Comments:

b. Correct analyses requested?

Yes No NA (Please explain) Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?

Yes No NA (Please explain) Comments:

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain) Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain) Comments:

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA (Please explain) Comments:

e. Data quality or usability affected? (Please explain)

Comments:

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain) Comments:

c. Were all corrective actions documented?

Yes No NA (Please explain) Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain)

Comments:

b. All applicable holding times met?

Yes No NA (Please explain)

Comments:

c. All soils reported on a dry weight basis?

Yes No NA (Please explain)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA (Please explain)

Comments:

e. Data quality or usability affected? (Please explain)

Comments:

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA (Please explain)

Comments:

ii. All method blank results less than PQL?

Yes No NA (Please explain)

Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

v. Data quality or usability affected? (Please explain) Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No NA (Please explain) Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA (Please explain) Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected? Comments:

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

vii. Data quality or usability affected? (Please explain)

Comments:

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes No NA (Please explain) Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No NA (Please explain) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA (Please explain) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No NA (Please explain.) Comments:

iii. All results less than PQL?

Yes No NA (Please explain.)

Comments:

iv. If above PQL, what samples are affected?

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA (Please explain)

Comments:

ii. Submitted blind to lab?

Yes No NA (Please explain.)

Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \frac{\text{Absolute Value of: } (R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA (Please explain)

Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain)

Comments:

f. Decontamination or Equipment Blank (if applicable)

Yes No NA (Please explain)

Comments:

i. All results less than PQL?

Yes No NA (Please explain)

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No NA (Please explain)

Comments:

Reset Form

APPENDIX C
WEEKLY OBSERVATIONS

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	12-26-13 / 1315	0654 Am / 14.28			GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1	12-26-13 / 1315		14-81	15.16	GA	0.35'
NMW-2					GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY	Date/Time	Free Product Level (gallons)				
Product MW-8						
Product MW-9						
Product MW-3						

Additional Comments:

GAUGING 1315 → 1356 HM)
 TRIPED 4 TIMES PER JOLANE COX
 HER INSPECTIONS GAJ ~ 156 ML OF
 OIL WATER TANK

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	12-19-18	1352 / 17.0'			GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1		1352 / 17.0'	11.04	12.96	GA	100 PUMPER
NMW-2					GA	350 ml of oil
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8	Date/Time	Free Product Level (gallons)				
Product MW-9						
Product MW-3						
Additional Comments:						
GAUGING 1517 → 1525						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (inches)
MW-1	12-10-43	↑			GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1	12-10-17 / 1520	↓	14.95	15.45	GA	APC
NMW-2					GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8						
Product MW-9						
Product MW-3						
Additional Comments:						
GAUGING →						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	12/1/13 ~ 1350	142 ft / 10.8 ft			GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1			12.51	14.22	GA	1.7'
NMW-2					GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	SEEPS		
FREE PRODUCT RECOVERY						
Product MW-8	Date/Time	Free Product Level (gallons)				
Product MW-9						
Product MW-3						
Additional Comments:						
GAUGING 1350 → 1410 HRS						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	11-15-13 1300	16.13 / 17.9	-		GA	CF
MW-2		A	-		GA	CF
MW-3			-		GA	CF
MW-4			15.55		GA	CF
MW-5			-		GA	CF
MW-6			14.32		GA	CF
MW-7			-		GA	CF
MW-8			13.78		GA	CF
MW-9			-		GA	CF
MW-10			14.05		GA	CF
MW-11			-		GA	CF
MW-12			16.32		GA	CF
MW-13			-		GA	CF
79017902			12.10		GA	CF
NMW-1			-		GA	CF
NMW-2			13.59		GA	CF
			-		GA	CF
			13.87		GA	CF
			-		GA	CF
			10.66		GA	CF
			-		GA	CF
			12.03		GA	CF
			-		GA	CF
			13.32		GA	CF
MENDENHALL RIVER OBSERVATIONS						
	11-15-13 1300	High Tide/Height 16.13 / 17.9	Visible Sheen N	Seeds N		
FREE PRODUCT RECOVERY						
Product MW-8	11-15-13 1400	Free Product Level (gallons) 178				
Product MW-9	11-15-13 1400	33				
Product MW-3						

Additional Comments:

Gauging 1300 →

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	11/7/13 - 1345H	15.64m / 10.0	-		GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1					GA	
NMW-2	11/7/13 - 1545H	15.64m / 10.0	12.52		GA	
MENDENHALL RIVER OBSERVATIONS						
	11/7/13 - 1350H	High Tide/Height	Visible Sheen	SEEPS		
		15.64m / 10.0	N			
FREE PRODUCT RECOVERY						
Product MW-8	11/7/13 - 1530	Free Product Level (gallons)				
		184				
Product MW-9	11/7/13 - 1535	33				
Product MW-3						
Additional Comments:						
GAGING 1345 H → 1545 H						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	11-1-13 / 1345	1210 P / 17.3'	-		GA	
MW-2	A	A	-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
79017902			-		GA	
NMW-1	11-1-13 / 1515	1210 P / 17.3'	14.01		GA	0.75'
NMW-2			-		GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeds		
	11-1-13 / 1350	1210 P / 17.3	N	N		
FREE PRODUCT RECOVERY						
Product MW-8	Date/Time	Free Product Level (gallons)				
	11-1-13 / 1505	184				
Product MW-9	Date/Time	Free Product Level (gallons)				
	11-1-13 / 1505	33				
Product MW-3						
Additional Comments:						
Gauging 1345 → 1515 hrs						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	10-24-13 / 1430	1648 Hrs / 14.8'	-	16.46	GT	
MW-2				16.41	GT	
MW-3				16.29	GT	
MW-4				13.77	GT	
MW-5				13.78	GT	
MW-6				13.62	GT	
MW-7				12.92	GT	
MW-8				23.06	GT	
MW-9				14.89	GT	
MW-10				15.22	GT	
MW-11				13.82	GT	
MW-12				13.67	GT	
MW-13				12.78	GT	
79017902				10.47	GT	
NMW-1				13.16	GT	0.88'
NMW-2	10-24-13 / 1600	1648 Hrs / 14.8'	-	14.57	GT	
MENDENHALL RIVER OBSERVATIONS						
	10-24-13 / 1440	1648 Hrs / 14.8'	-	Visible Sheen	SEEPS	
FREE PRODUCT RECOVERY						
Product MW-8	10-24-13 / 1550			Free Product Level (gallons)		
Product MW-9	10-24-13 / 1536			184		
Product MW-3				33		

Additional Comments:

Gauging 1430 → 1600 Hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	10/17/13-1330	1242 Hrs - 10.2'	-		GA	
MW-2		↑	-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8	1435 Hrs		-		GA	wee pump out 13 hrs
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
7901/7902			-		GA	
NIMW-1			-		GA	
NIMW-2	10/17/13-1530	1242 Hrs - 10.2'	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	10/17/13-1450	1260 Hrs - 10.2'	-	Visible Sheen		Seeps
FREE PRODUCT RECOVERY						
Product MW-8	10/17/13-	Free Product Level (gallons)				
Product MW-9		104				
Product MW-3	10/17/13-	37				
Additional Comments:						
GAUGING 1330 → 1530 Hrs						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	10-10-13/1530	1720 Hk / 16.5'	-		GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1					GA	
NMW-2	10-10-13/1530	1720 Hk / 16.13'	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	10-10-13/	1720 Hk / 16.13'	-	Visible Sheen		Seeps
						N
FREE PRODUCT RECOVERY						
Product MW-8	10-10-13/			Free Product Level (gallons)		
Product MW-9	10-10-13/					104
Product MW-3						33
Additional Comments:						
Gauging 13 ³⁰ Hk → 15 ³⁰ Hk						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	10/3/13 - 1300	1252 hr / 16.8'	-		GA	
MW-2			-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
79017902			-		GA	
NMW-1			12.08		GA	
NMW-2	10/3/13 - 1500	1252 hr / 16.8'	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	10/3/13 - 1445	1252 hr / 16.8'		Visible Sheen	Seeps	
						N
FREE PRODUCT RECOVERY						
Product MW-8	10/3/13			Free Product Level (gallons)		104
Product MW-9	10/3/13					33
Product MW-3						
Additional Comments:						
GAGING 1300 hr → 1500 hr						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	9-26-13/1330	9-26-13/13.4	-		GA	
MW-2			-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
7901/1902			-		GA	
NMW-1			14.42		GA	
NMW-2	9-26-13/1530	9-26-13/13.4	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
	9-26-13/1510	N	N			
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	9-26-13/1530	104				
Product MW-9	9-26-13/1530	35				
Product MW-3						
Additional Comments:						
GAGING 1350 hrs → 1530 hrs						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	9-19-13 / 1330	1348 Hrs / 10.7'	-		GT	
MW-2					GT	
MW-3					GT	
MW-4					GT	
MW-5					GT	
MW-6					GT	
MW-7					GT	
MW-8					GT	
MW-9					GT	
MW-10					GT	
MW-11					GT	
MW-12					GT	
MW-13					GT	
79017902					GT	
NMW-1					GT	
NMW-2	9-19-13 / 1500	1348 Hrs / 10.7'	-		GT	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
	9-19-13 / 1330	9-19-13 / 10.7	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	9-19-13	104				
Product MW-9	9-19-13	33				
Product MW-3						
Additional Comments:						
GAUGING 1330 → 1500 HRS						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	9-12-13 / 1300	184.46 / 15.2	-		GA	
MW-2			-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
79017902			-		GA	
NMW-1			-		GA	
NMW-2	9-12-13 / 1500	184.46 / 15.2	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	9-12-13 /	184.46 / 15.2	-	Visible Sheen	Seeps	N
FREE PRODUCT RECOVERY						
Product MW-8	9/12/13 -			Free Product Level (gallons)		
Product MW-9	9/12/13 -					184
Product MW-3						37
Additional Comments:						
GA061315 → 1500 Has						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	9-5-13/1330	1402 hrc / 16.7'	-		GA	
MW-2			-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			*		GA	
79017902			-		GA	
NMW-1			-		GA	
NMW-2	9-5-13/1530	1402 hrc / 16.7'	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	9-5-13/	High Tide/Height	Visible Sheen	SEEPS		
		1402 hrc / 16.7'	H	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	9-5-13/1500 hrc	184				
Product MW-9	9-5-13/1500 hrc	53				
Product MW-3		-				

Additional Comments: * UNKNOWN VEHICLE PARKED OVER WELL

Gauging 1330 → 15K HRC

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	8-27-13 / 1430	6:13 pm / 14.7'	-		GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1					GA	
NMW-2	8-27-13 / 1600	6:13 pm / 14.7'	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	8-27-13 / 131044	High Tide/Height 6:13 pm / 14.7'		Visible Sheen N	Seeps N	
FREE PRODUCT RECOVERY						
Product MW-8	8-27-13 / 1545			Free Product Level (gallons)		
Product MW-9	8-27-13 / 1545			~ 184		
Product MW-3	8-27-13 / 1545			~ 33		
Additional Comments: GAUGING 1430 → 1600 hrs						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	8/22/13 / 1315	1456 / 10.6'	-		GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79017902					GA	
NMW-1					GA	
NMW-2	8/22/13 / 1515	1456 / 10.6'	12.15		GA	1.24'
MENDENHALL RIVER OBSERVATIONS						
	8/22/1440	1456 / 10.6'		Visible Sheen		Seeps
FREE PRODUCT RECOVERY						
Product MW-8	8/22/13 / 1435			Free Product Level (gallons)		
Product MW-9	8/22/13 / 1435					
Product MW-3						

Additional Comments:

6906106 1315 Hrs → 1500 Hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	8-15-13 / 1330	2020 Hg / 15.2'	-		GA	
MW-2					GA	
MW-3					GA	
MW-4					GA	
MW-5					GA	
MW-6					GA	
MW-7					GA	
MW-8					GA	
MW-9					GA	
MW-10					GA	
MW-11					GA	
MW-12					GA	
MW-13					GA	
79047902					GA	
NMW-1					GA	
NMW-2	8-15-13 / 1530	2020 Hg / 15.2'	13.64		GA	
MENDENHALL RIVER OBSERVATIONS						
	8-15-13 / 1330	2020 Hg / 15.2'		Visible Sheen	Seeps	
						N
FREE PRODUCT RECOVERY						
Product MW-8	8-15-13 / 1400			Free Product Level (gallons)		104
Product MW-9	8-15-13 / 1400					33
Product MW-3						-

Additional Comments:

Gauging 1330 → 1515 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	8.7.13 / 13:30 hrs	1439 hrs / 15.8'	-		GA	
MW-2			-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
7901/7902			-		GA	
NMW-1			12.69		GA	
NMW-2			-		GA	
MENDENHALL RIVER OBSERVATIONS						
	8.7.13 / 1330	High Tide/Height 1439 hrs / 15.8'	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8	8.7.13 / 1420 hrs	Free Product Level (gallons) 184				
Product MW-9	8.7.13 / 1420 hrs	33				
Product MW-3	-	-				

Additional Comments:

GAUBING 1330 → 1500 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	8-15-13 / 1330	2020 Ht / 15.2	-	17.54	GA	
MW-2				17.12	GA	
MW-3				17.02	GA	
MW-4				14.35	GA	
MW-5				14.92	GA	
MW-6				13.88	GA	
MW-7				14.51	GA	
MW-8				23.88	GA	
MW-9				15.88	GA	
MW-10				16.44	GA	
MW-11				14.28	GA	
MW-12				19.37	GA	
MW-13				14.11	GA	
7901/1902				10.73	GA	
NIMW-1			13.64	14.76	GA	
NIMW-2			-	15.08	GA	
MENDENHALL RIVER OBSERVATIONS						
	8-15-13 / 1330	2020 Ht / 15.2		Visible Sheen		Seeps
						N
FREE PRODUCT RECOVERY						
	Date/Time	High Tide/Height	Free Product Level (gallons)			
Product MW-8	8-15-13 / 1400		104			
Product MW-9	8-15-13 / 1400		33			
Product MW-3			-			

Additional Comments:

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	8.7.13 / 1330 hrs	14.39 hrs / 15.8'	-		GT	
MW-2			-		GT	
MW-3			-		GT	
MW-4			-		GT	
MW-5			-		GT	
MW-6			-		GT	
MW-7			-		GT	
MW-8			-		GT	
MW-9			-		GT	
MW-10			-		GT	
MW-11			-		GT	
MW-12			-		GT	
MW-13			-		GT	
79017902			-		GT	
NMW-1			12.69		GT	
NMW-2			-		GT	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
	8.7.12 / 1330	14.39 hrs / 15.8'	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	8.7.13 / 1420 hrs	184				
Product MW-9	8.7.13 / 1420 hrs	33				
Product MW-3	-	-				

Additional Comments:

GAUGING 1330 → 1500 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	7-31-12 / 1300	0921 AM / 11.0'	-	16.63	GA	
MW-2				16.97	GA	
MW-3				16.02	GA	
MW-4				14.23	GA	
MW-5				14.64	GA	
MW-6				14.27	GA	
MW-7				14.71	GA	
MW-8				23.57	GA	
MW-9				15.56	GA	
MW-10				16.12	GA	
MW-11				13.91	GA	
MW-12				14.23	GA	
MW-13				13.76	GA	
7901/7902				10.77	GA	
NMW-1			13.39	14.46	GA	1.07'
NMW-2	7-31-12 / 1500	0921 AM / 11.0'	-	14.77	GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible/Sheen	Seeps		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	7-31-13 /					
Product MW-9	7-31-13 /					
Product MW-3	-					
Additional Comments:						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	7-24-13 / 1300	1526 Hrs / 18.0'	-		GA	
MW-2		↑	-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	WELL PUMP OFF
MW-9			-		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
7901/7902			-		GA	
NMW-1			-		GA	
NMW-2	7-24-13 / 1500 Hr	↓	12.42	12.72	GA	0.3
			-	14.00	GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible/Sheen	Seeps		
	7-24-13 / 1445	1526 Hrs / 18.0'	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	7-24-13 / 1450	104				
Product MW-9	7-24-13 / 1450	37				
Product MW-3	-	-				

Additional Comments:

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	7-17-13 / 1300	20.68 / 15.21	-	N	GH	
MW-2			-	N	GH	
MW-3			-	N	GH	
MW-4			-	N	GH	
MW-5			-	N	GH	
MW-6			-	N	GH	
MW-7			-	N	GH	
MW-8			-	N	GH	
MW-9			15.01	N	GH	0.02'
MW-10			-	N	GH	
MW-11			-	N	GH	
MW-12			-	N	GH	
MW-13			-	N	GH	
79017902			-	N	GH	
NMW-1			13.77	Y	GH	0.90'
NMW-2			-	N	GH	
MENDENHALL RIVER OBSERVATIONS						
	7-17-13	High Tide/Height: 15.21	Visible Sheen: N	Seeps: N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	7-17-13 / 1400 hrs	1.84				
Product MW-9	7-17-13 / 1400 hrs	3.7				
Product MW-3	-	-				

Additional Comments:

Gauging 1300 hrs → 1435 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	7.11.13 / 1250	16.00	16.83		GA	
MW-2			16.56		GA	
MW-3			16.03		GA	
MW-4			13.43		GA	
MW-5			15.26		GA	
MW-6			13.41		GA	
MW-7			12.78		GA	
MW-8			23.01		GA	
MW-9			15.10		GA	
MW-10			13.79		GA	
MW-11			13.64		GA	
MW-12			13.53		GA	
MW-13			12.82		GA	
79017902			10.71		GA	
NMW-1			13.23		GA	0.25
NMW-2			14.48		GA	
MENDENHALL RIVER OBSERVATIONS						
	7.11.13	High Tide/Height	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8	7.11.13 / 1410	Free Product Level (gallons)	108			
Product MW-9	7.11.13 / 1410	Free Product Level (gallons)	33			
Product MW-3						

Additional Comments:

Gauging 1250 → 1415 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	7.5.13 / 1300	7.5.13 / 13.1	-	15.96	GA	
MW-2				15.88	GA	
MW-3				16.31	GA	
MW-4				13.90	GA	
MW-5				14.22	GA	
MW-6				13.82	GA	
MW-7				13.18	GA	
MW-8				22.71	GA	
MW-9				14.53	GA	
MW-10				15.68	GA	
MW-11				13.07	GA	
MW-12				13.52	GA	
MW-13				13.26	GA	
79017902				10.82	GA	
NMW-1			12.51	13.21	GA	0.7
NMW-2	7.5.13 / 1515	7.5.13 / 13.1	-	14.01	GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
	7-5-13 / 1320	12.51 / 13.1	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	7.5.13 / 1420	104				
Product MW-9	7.5.13 / 1400	33				
Product MW-3		-				

Additional Comments:

OIL WELL MONITORING 1330-1445 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	6-27-13 / 1345	1722.40 / 16.8'	-	15.97	GA	
MW-2			-	15.78	GA	
MW-3			-	15.53	GA	
MW-4			-	12.87	GA	
MW-5			-	14.98	GA	
MW-6			-	13.07	GA	
MW-7			-	12.34	GA	
MW-8			-	22.63	GA	
MW-9			14.14	14.16	GA	0.02
MW-10			-	16.56	GA	
MW-11			-	12.96	GA	
MW-12			-	12.07	GA	
MW-13			-	12.71	GA	
79017902			-	10.76	GA	
NMW-1	6-27-13 / 152		12.51	13.24	GA	0.73
NMW-2			-	13.83	GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
	6-27-13 / 1520	1722 / 16.8'	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	6-27-13 / 1510	184				
Product MW-9	6-27-13 / 1510	33				
Product MW-3	-	-				

Additional Comments:

Gauging 1345 → 1530 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (inches)
MW-1	6-20-18/1315	1135am/13.4'	-		GA	
MW-2			-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8	1450 Hrs		17.62		GA	well pump off
MW-9			14.67		GA	1430 hrs
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
79017902			-		GA	
NMW-1			12.35		GA	0.56
NMW-2			-		GA	
MENDENHALL RIVER OBSERVATIONS						
	6-20-18/1315	High Tide/Height: 1135am/13.4'	Visible Sheen	Seeps		
			N	N		
FREE PRODUCT RECOVERY						
Product MW-8	6-20-19/1510		Free Product Level (gallons)			
Product MW-9	6-20-19/1510		184			
Product MW-3			33			
Additional Comments:						
START @ 1315 hrs → 1515 hrs						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	6-13-13 1330H	5:15P / 14.0'	-	17.63	GA	
MW-2			-	17.63	GA	
MW-3			-	16.87	GA	
MW-4			-	14.27	GA	
MW-5			-	14.52	GA	
MW-6			-	14.21	GA	
MW-7			-	13.56	GA	
MW-8			-	24.11	GA	
MW-9			15.46	16.02	GA	0.06
MW-10			-	15.96	GA	
MW-11			-	14.18	GA	
MW-12			-	14.37	GA	
MW-13			-	13.48	GA	
79017902			-	10.75	GA	
NMW-1			13.91	14.70	GA	0.79
NMW-2	6-13-13 /	5:15P / 14.0'	-	15.25	GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	6-13-13 / 1505H	184				
Product MW-9	6-13-13 / 1505H	33				
Product MW-3		-				

Additional Comments:

WELL GAUGING FROM 1330 HOU → 1515 HOU

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	6.6.13 / 1300	1305 / 13.9'	-		GA	
MW-2			-		GA	
MW-3			-		GA	
MW-4			-		GA	
MW-5			-		GA	
MW-6			-		GA	
MW-7			-		GA	
MW-8			-		GA	
MW-9			14.41		GA	
MW-10			-		GA	
MW-11			-		GA	
MW-12			-		GA	
MW-13			-		GA	
7901/7902			-		GA	
NMW-1			12.58		GA	0.65
NMW-2	6.6.13 / 1500	1325 / 13.9'	-		GA	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Steps		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	6.6.13 / 1445 Hrs	182				
Product MW-9	6.6.13 / 1445 Hrs	33				
Product MW-3		-				

Additional Comments:

Gauging from 1300 → 1500 Hrs.
 3 BAILED ~ 300 ML OF PRODUCTS OUT OF NMW-1

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	5/20/13 / 1415	16.2' @ 1453	-	15.92	GA	
MW-2			-	16.03	GA	
MW-3			-	16.34	GA	
MW-4			-	13.97	GA	
MW-5			-	14.21	GA	
MW-6			-	13.79	GA	
MW-7			-	13.08	GA	
MW-8			-	15.71*	GA	* DEPRESSION DUMP OFF (15.15 hrs)
MW-9			-	14.82	GA	
MW-10			-	15.61	GA	
MW-11			-	14.21	GA	
MW-12			-	13.92	GA	
MW-13			-	13.38	GA	
7901/7902			-	10.62	GA	
NMW-1			14.6	14.74	GA	0.14
NMW-2	5/20/13 / 1615	16.2' @ 1453	-	14.95	GA	
MENDENHALL RIVER OBSERVATIONS						
	5/20/13 / 1500	High Tide/Height: 14.53 / 16.2'	Visible Sheen	Seeps		
			N	N		
FREE PRODUCT RECOVERY						
Product MW-8	5-20-13 / 1530		Free Product Level (gallons)			
Product MW-9	5-20-13 / 1520		184			
Product MW-3	-		33			
			0			

Additional Comments:

GAUGING 1415 → 1615 HRS.

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	5-21-13 / 11:01 AM	11:01 AM / 13.2'	-	17.21'	GT	
MW-2				17.01	GT	
MW-3				17.44	GT	
MW-4				15.23	GT	
MW-5				15.23	GT	
MW-6				14.98	GT	
MW-7				14.41	GT	
MW-8				24.02	GT	
MW-9			15.69	16.00	GT	0.31'
MW-10				16.71	GT	
MW-11				14.41	GT	
MW-12				14.86	GT	
MW-13				14.20	GT	
79017902				10.59	GT	
NMW-1			13.80	15.21	GT	1.41'
NMW-2	5-21-13 / 11:01 AM	11:01 AM / 13.2'	-	15.41	GT	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8	5-21-13 / 12 PM					182
Product MW-9	5-21-13 / 12 PM					33
Product MW-3	5-21-13 / 12 PM					0
Additional Comments: M O MITOR / GAUGE 1040 AM → 1230 PM						
OIL TOTALS 1 st = 7.7 GAL						

Mendenhall Facility Oil Monitoring Well Data

Well #	Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1			GT	
MW-2			GT	
MW-3			GT	
MW-4			GT	
MW-5			GT	
MW-6			GT	
MW-7			GT	
MW-8			GT	
MW-9			GT	
MW-10			GT	
MW-11			GT	
MW-12			GT	
MW-13			GT	
79017902			GT	
NMW-1			GT	
NMW-2			GT	
MENDENHALL RIVER OBSERVAT				
FREE PRODUCT RECOVERY				
Product MW-8				
Product MW-9				
Product MW-3				
Additional Comments:	NO GAUGING THIS WEEK DUE TO HIGH TIDE HOURS OUTSIDE WORKING HOURS.			



May 3		HIGH TIDES		LOW TIDES					
	AM	PM	AM	PM	FT				
1	W	5:46	15.9	7:08	14.1	.....	12:20	-0.3	
2	T	6:57	14.5	8:22	14.0	0:58	4.0	1:28	0.9
3	F	8:19	13.6	9:30	14.5	2:18	3.9	2:41	1.6
4	S	9:39	13.5	10:28	15.2	3:35	3.0	3:50	1.9
5	S	10:49	13.8	11:17	16.0	4:40	1.8	4:50	1.9
6	M	11:46	14.3	11:59	16.6	5:33	0.5	5:41	1.8
7	T	.....	.....	12:35	14.8	6:19	0.6	6:25	1.8
8	W	0:36	17.0	1:19	15.1	6:59	-1.3	7:05	1.9
9	T	1:11	17.3	1:58	15.3	7:36	-1.8	7:42	2.1
10	F	1:45	17.3	2:35	15.2	8:11	-1.9	8:18	2.4
11	S	2:17	17.1	3:10	15.0	8:45	-1.7	8:53	2.9
12	S	2:50	16.7	3:45	14.6	9:19	-1.3	9:27	3.4
13	M	3:24	16.2	4:21	14.1	9:53	-0.7	10:03	4.0
14	T	3:59	15.4	5:00	13.5	10:29	0.0	10:42	4.6
15	W	4:37	14.5	5:43	13.0	11:09	0.9	11:28	5.2
16	T	5:22	13.5	6:34	12.6	11:54	1.7	.....	.....
17	F	6:17	12.6	7:32	12.6	0:25	5.6	12:46	2.5
18	S	7:27	12.0	8:33	13.1	1:34	5.4	1:47	3.0
19	S	8:45	11.9	9:29	13.9	2:47	4.6	2:52	3.2
20	M	9:58	12.4	10:19	15.1	3:52	3.3	3:55	3.1
21	T	11:01	13.2	11:06	16.3	4:49	1.6	4:52	2.7
22	W	11:56	14.3	11:51	17.6	5:38	-0.2	5:44	2.2
23	T	.....	.....	12:48	15.2	6:25	-1.9	6:33	1.6
24	F	0:36	18.6	1:37	16.0	7:10	-3.3	7:20	1.2
25	S	1:22	19.3	2:25	16.5	7:55	-4.2	8:07	1.0
26	S	2:09	19.6	3:14	16.7	8:41	-4.6	8:55	1.1
27	M	2:56	19.4	4:03	16.6	9:27	-4.4	9:45	1.4
28	T	3:46	18.6	4:53	16.2	10:16	-3.6	10:39	1.9
29	W	4:38	17.4	5:47	15.8	11:06	-2.3	11:38	2.4
30	T	5:35	15.9	6:45	15.3	12:01	-0.9
31	F	6:40	14.4	7:46	15.0	0:43	2.8	1:00	0.6

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Sheen Sheeps

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	5-8-13 / 1319Hr	1319Hr. 15.1'	-	N	GH	
MW-2				N	GH	
MW-3				N	GH	
MW-4				N	GH	
MW-5				N	GH	
MW-6				N	GH	
MW-7			13.85	Y	GH	0.03'
MW-8				N	GH	
MW-9			14.63	Y	GH	0.28'
MW-10				N	GH	
MW-11				N	GH	
MW-12				N	GH	
MW-13				N	GH	
79017902				N	GH	
NMW-1				Y	GH	1.65'
NMW-2	5-8-13 / 1319Hr	1319 / 15.1'		N	GH	
MENDENHALL RIVER OBSERVATIONS						
	5-8-13 / 1319	1319 / 15.1'		Visible Sheen	Seeds	
FREE PRODUCT RECOVERY						
Product MW-8	5-8-13 / 1319			Free Product Level (gallons)		
Product MW-9	"			178		
Product MW-3	"			30		
Product MW-3	"			0		

Additional Comments:

Gauging 1319 → 1510 Hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	5.2.13/0657A	14.5	16.12	N	GA	
MW-2			17.81	N	GA	
MW-3			15.64	N	GA	
MW-4			15.76	N	GA	
MW-5			15.92	N	GA	
MW-6			14.71	N	GA	
MW-7			14.00	N	GA	
MW-8			15.73	N	GA	PUMP NOT PUMPING?
MW-9			14.74	Y	GA	
MW-10			16.49	N	GA	
MW-11			13.58	N	GA	
MW-12			15.27	N	GA	
MW-13			14.07	N	GA	
79017902			10.74	N	GA	
NMW-1			13.20	Y	GA	1.64
NMW-2	5.2.13/0657A	0657A/14.8	14.71	N	GA	
MENDENHALL RIVER OBSERVATIONS						
	5.2.13/0715	0657/14.5'	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8			Free Product Level (gallons)			
Product MW-9			178			
Product MW-3			30			
Additional Comments: GAUGING FROM 0615 → 0830 HRS						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	4.23.13 / 12:22P	1222P / 15.3'	-	N	GH	
MW-2	A	|	-	N	GH	
MW-3			-	N	GH	
MW-4			-	N	GH	
MW-5			-	N	GH	
MW-6			-	N	GH	
MW-7	Y	|	-	N	GH	
MW-8			-	N	GH	
MW-9			15.81	Y	GH	1.04'
MW-10			-	N	GH	
MW-11			-	N	GH	
MW-12	Y	|	-	N	GH	
MW-13			-	N	GH	
79017902			-	N	GH	
NMW-1			13.94	Y	GH	1.34'
NMW-2			-	N	GH	
MENDENHALL RIVER OBSERVATIONS						
	4.23.13 / 1400	High Tide/Height	Visible Sheen	Seeps		
		15.3'	N	Y		
FREE PRODUCT RECOVERY						
Product MW-8	4.23.13 / 1400	Free Product Level (gallons)				
Product MW-9	4.23.13 / 1400	170				
Product MW-3	4.23.13 / 1400	30				

Additional Comments:

Gauging 1130 → 1410 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)	
MW-1	4-19-13 / 0819 AM	12.4'	-	17.56	GA		
MW-2	A ↓ V			18.24 / 17.43	GA		
MW-3				18.24	GA		
MW-4					GA		
MW-5					GA		
MW-6					GA		
MW-7					GA		
MW-8					GA		
MW-9					GA		
MW-10				17.57		GA	
MW-11				14.79		GA	
MW-12						GA	
MW-13						GA	
79017/902						GA	
NMW-1	4-19-13 / 0819 AM	12.4'	14.20	15.41	GA	1.13'	
NMW-2	4-19-13 / 1010	12.4'	-	15.77	GA		
MENDENHALL RIVER OBSERVATIONS							
	4-19-13 / 1010	High Tide/Height	Visible Sheen	Seeps			
		0819 AM / 12.4'	N	N			
FREE PRODUCT RECOVERY							
	Date/Time	Free Product Level (gallons)					
Product MW-8	4-19-13 / 0819 AM	170					
Product MW-9	"	30					
Product MW-3	"	0					

Additional Comments:

Gauging 0820 → 1030 AM

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	4-11-13 / 1449	1449 hrs / 16.3	-	17.16	GA	
MW-2				17.06	GA	
MW-3				17.37	GA	
MW-4				15.12	GA	
MW-5				16.98	GA	
MW-6				15.01	GA	
MW-7				14.06	GA	
MW-8				24.61	GA	
MW-9			15.93	16.38	GA	0-41
MW-10				15.38	GA	
MW-11				13.78	GA	
MW-12				14.93	GA	
MW-13				14.59	GA	
79017/902				10.79	GA	
NMW-1			13.47	15.08	GA	1-61
NMW-2	4-11-13 / 1449	1449 hrs / 16.3	-	14.99	GA	
MENDENHALL RIVER OBSERVATIONS						
	4-11-13 /	High Tide/Height	Visible Sheen	Seeps		
	1449 hrs /	16.3	N	N		
FREE PRODUCT RECOVERY						
Product MW-8	4-11-13	Free Product Level (gallons)				
Product MW-9	4-11-13	178				
Product MW-3	4-11-13	30				
Product MW-3	4-11-13	0				

Additional Comments:

Gauging time 1200 hrs → 1500 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	4.4.13 / 0835	0835 / 14.2	-	N	GA	
MW-2				N	GA	
MW-3				N	GA	
MW-4			15.81	Y	GA	
MW-5			-	N	GA	
MW-6			-	N	GA	
MW-7			-	N	GA	
MW-8			-	N	GA	
MW-9			-	N	GA	
MW-10			-	N	GA	
MW-11			-	N	GA	
MW-12			-	N	GA	
MW-13			-	N	GA	
79017902						
NMW-1			14.07	Y	GA	1.42' (2-14-3/4")
NMW-2	4.4.13 / 1030	0835 / 14.2	-	N	GA	
MENDENHALL RIVER OBSERVATIONS						
	4.4.13 /	High Tide/Height	Visible Sheen	Seeps		
		0835 / 14.2'	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	4.4.13 / 0950	~ 170				
Product MW-9	4.4.13 / 0950	~ 30				
Product MW-3	"	0				

Additional Comments:

Gauging 0830 → 1045 hrs

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (inches)
MW-1	3-27-13 / 1 PM	1408 Hrs / 17.3'	- / 15.95	N	GT	
MW-2			- / 16.27	N	GT	
MW-3			- / 17.62	N	GT	
MW-4			- / 15.56	N	GT	
MW-5			- / 15.71	N	GT	
MW-6			- / 15.18	N	GT	
MW-7			- / 14.47	N	GT	
MW-8			- / 24.05	N	GT	
MW-9			14.97 / 15.41	Y	GT	5.28"
MW-10			- / 17.11	N	GT	
MW-11			- / 13.19	N	GT	
MW-12			- / 14.90	N	GT	
MW-13			- / 14.91	N	GT	
79017902			- / 10.91	N	GT	
NMW-1			12.87 / 14.13	Y	GT	15.12"
NMW-2	3-27-13 / 3 PM	1408 Hrs / 17.3'	- / 14.58	N	GT	
MENDENHALL RIVER OBSERVATIONS						
	3-27-13 / 1400 HA	High Tide/Height 1408 / 17.3'	Visible Sheen	Seeps		
		1408 / 17.3'	N	N		
FREE PRODUCT RECOVERY						
Product MW-8	3-27-13 / 1345 HA	Free Product Level (gallons) ~ 178				
Product MW-9	"	~ 30				
Product MW-3	"	0				
Additional Comments: TESTING DONE 1 PM → 3 PM						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	3/12/13 1335 hrs	1428 hrs / 18.9	- 115.69	N	GF	
MW-2			- 114.69	N	GF	
MW-3			- 117.02	N	GF	
MW-4			- 115.11	N	GF	
MW-5			- 115.02	N	GF	
MW-6			- 114.62	N	GF	
MW-7			- 113.88	N	GF	
MW-8			- 123.67	N	GF	
MW-9			14.61 / 15.11	N	GF	0.5 to 5 7/8
MW-10			- 116.46	N	GF	
MW-11			- 114.37	N	GF	
MW-12			- 114.36	N	GF	
MW-13			- 114.21	N	GF	
79017902			- 110.75	N	GF	
NMW-1			14.0 / 15.23	N	GF	1.23 = 14 3/4
NMW-2	3/12/13 1535 hrs	1428 hrs / 18.0	- 115.41	N	GF	
MENDENHALL RIVER OBSERVATIONS						
	3/12/13 1340	SAME	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8	3/12/13 1425	177	Free Product Level (gallons)			
Product MW-9	3/12/13 1410	20				
Product MW-3	3/12/13 1410	0				
Additional Comments:						
MONITORING TIME 1335 HRS → 1535 HRS						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	2.26.13 1326	1326 17.6	- / 14.33	N	GF	
MW-2	A	A	- / 14.31	N	GF	
MW-3			- / 16.47	N	GF	
MW-4			- / 14.93	N	GF	
MW-5			- / 14.74	N	GF	
MW-6			- / 14.39	N	GF	
MW-7			- / 15.67	N	GF	
MW-8			- / 22.17	N	GF	
MW-9			13.45 / 13.47	N	GF	0.02
MW-10			- / 16.17	N	GF	
MW-11			- / 12.33	N	GF	
MW-12			- / 13.42	N	GF	
MW-13			- / 13.81	N	GF	
79017902	Y	Y	- / 10.71	N	GF	
NMW-1			12.09 / 12.91	N	GF	0.90
NMW-2	2.26.13 1326	1326 17.6	- / 13.67	N	GF	
MENDENHALL RIVER OBSERVATIONS						
	2.26.13 / 1245	High Tide/Height 1326 / 17.6'	Visible Sheen N	Seeps N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	2-26-13 / 1410	177				
Product MW-9	2-26-13 / 1410	20				
Product MW-3		-				
Additional Comments: TESTING 1245 PM → 1430 HRS.						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	2-20-13 0830	0859 / 13.4	-	N	GF	
MW-2	0835	A	-	N	GF	
MW-3	0905		-	N	GF	
MW-4	0945		14.97	N	GF	0.26
MW-5	0915		-	N	GF	
MW-6	0925		14.92	N	GF	
MW-7	0855		-	N	GF	
MW-8	0955		-	N	GF	
MW-9	1005		15.51	N	GF	0.55
MW-10	0905		-	N	GF	
MW-11	0820		-	N	GF	
MW-12	0935		-	N	GF	
MW-13	0845		-	N	GF	
79017902	1015		10.65	N	GF	
NMW-1	1025	Y	13.29	N	GF	1.36
NMW-2	2-20-13 1035	0859 / 13.4	-	N	GF	
MENDENHALL RIVER OBSERVATIONS						
	2-20-13 1035	0859 / 13.4	N	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8	2-20-13 0955		Free Product Level (gallons)			
Product MW-9	2-20-13 0955		177			
Product MW-3	2-20-13 0955		20			
Product MW-3	2-20-13 0955		0			

Additional Comments:

Gauging 0830 → 1040 AM

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	2.12.13/1424P	1424P/18.2	-	15.72	N	GF
MW-2	↑	↑	-	14.81	N	GF
MW-3			-	16.89	N	GF
MW-4			-	15.62	N	GF
MW-5			-	15.06	N	GF
MW-6			-	14.73	N	GF
MW-7			-	13.99	N	GF
MW-8			-	23.42	N	GF
MW-9			14.92	15.23	Y	0.31'
MW-10			-	16.52	N	GF
MW-11			-	14.42	N	GF
MW-12			-	14.33	N	GF
MW-13			-	14.48	N	GF
7901/7902			-	11.02	N	GF
NMW-1			14.64	15.44	Y	0.86'
NMW-2	2.12.13/1424P	1424P/18.2	-	15.61	N	GF
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
	2.12.13/1424P	1424P/18.2	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	2.12.13/1424P	177				
Product MW-9	2.12.13/1424P	20				
Product MW-3	"	0				

Additional Comments:

Gauging 1310 → 1525P

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	2.5.13	0912 AM / 16.0'	- / 16.47	NO	GF	0
MW-2	2.5.13	- 4 -	- / 16.62	NO	GF	0
MW-3	2.5.13	- 4 -	- / 16.86	NO	GF	0
MW-4	2.5.13	- 4 -	15.52 / 15.54	NO	GF	0.02
MW-5	2.5.13	- 4 -	- / 15.21	NO	GF	0
MW-6	2.5.13	- 4 -	- / 14.83	NO	GF	0
MW-7	2.5.13	- 4 -	- / 14.03	NO	GF	0
MW-8	2.5.13	- 4 -	17.92 / 17.98	NO	GF	0.06
MW-9	2.5.13	- 4 -	16.54 / 16.90	NO	GF	0.36
MW-10	2.5.13	- 4 -	- / 16.81	NO	GF	0
MW-11	2.5.13	- 4 -	- / 12.53	NO	GF	0
MW-12	2.5.13	- 4 -	- / 14.49	NO	GF	0
MW-13	2.5.13	- 4 -	- / 13.71	NO	GF	0
7901/7902	2.5.13	- 4 -	- / 10.52	NO	GF	0
NMW-1	2.5.13	- 4 -	12.11 / 12.60	NO	GF	0.49
NMW-2	2.5.13	- 4 -	- / 13.55	NO	GF	0
MENDENHALL RIVER OBSERVATIONS		High Tide/Height	Visible Sheen	Seeps		
	2.5.13	0912 / 16.0'	NO	NO		
FREE PRODUCT RECOVERY		Date/Time	Free Product Level (gallons)			
Product MW-8	2.5.13		175			
Product MW-9	2.5.13		20			
Product MW-3	2.5.13		0			
Additional Comments:						
Well Testing @ 0930 AM						

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	1-22-13 /	0931 / 14.2				
MW-2	1-22-13 /	0931 / 14.2				
MW-3	1-22-13 /	0931 / 14.2				
MW-4	1-22-13 /	0931 / 14.2				
MW-5	1-22-13 /	0931 / 14.2				
MW-6	1-22-13 /	0931 / 14.2				
MW-7	1-22-13 /	0931 / 14.2	14-60			
MW-8	1-22-13 /	0931 / 14.2				
MW-9	1-22-13 /	0931 / 14.2				
MW-10	1-22-13 /	0931 / 14.2	16.97			
MW-11	1-22-13 /	0931 / 14.2	13.50	N		
MW-12	1-22-13 /	0931 / 14.2				
MW-13	1-22-13 /	0931 / 14.2				
79017902	1-22-13 /	0931 / 14.2	13.16			
NMW-1	1-22-13 /	0931 / 14.2	13.60			0.44
NMW-2	1-22-13 /	0931 / 14.2				
MENDENHALL RIVER OBSERVATIONS						
	1-22-13 /	0931 / 14.2	Visible Sheen	Seeps		
FREE PRODUCT RECOVERY						
Product MW-8	1-22-13 /		Free Product Level (gallons)			
Product MW-9	1-22-13 /					
Product MW-3	1-22-13 /					

Additional Comments:

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	1-15-13 / 1526 Hr	1526 Hr / 17.8	- / 16.42	N	GF	
MW-2			- / 16.48	N	GF	
MW-3			- / 17.12	N	GF	
MW-4			- / 15.22	N	GF	
MW-5			- / 14.91	N	GF	
MW-6			- / 14.62	N	GF	
MW-7			- / 14.09	N	GF	
MW-8			- / 22.26	N	GF	
MW-9			15.12 / 15.65	Y	GF	Ø-56'
MW-10			- / 16.98	N	GF	
MW-11			- / 12.74	N	GF	
MW-12			- / 14.01	N	GF	
MW-13			- / 14.19	N	GF	
79017902			- / 12.28	N	GF	
NMW-1			14.82 / 15.25	Y	GF	Ø-42'
NMW-2	1-15-13 / 1526 Hr	1526 Hr / 17.8	- / 13.95	N	GF	
MENDENHALL RIVER OBSERVATIONS						
	1-15-13 / 1526 Hr	1526 Hr / 17.8	Visible Sheen	Seeps		
			N	N		
FREE PRODUCT RECOVERY						
Product MW-8	1-15-13 / 1526 Hr	1526 Hr	Free Product Level (gallons)			
			177			
Product MW-9	1-15-13 / 1526 Hr	1526 Hr	20			
Product MW-3	1-15-13 / 1526 Hr	1526 Hr	-			

Additional Comments:

MONITOR 1415F → 1610P

Mendenhall Facility Oil Monitoring Well Data

Well #	Date / Time	High Tide / Height (feet)	T.O.C. To Oil / Water (feet)	Visible Sheen	Initials	Product Observed (Inches)
MW-1	1-8-13/0933A	0933A / 17.3'	- / 16.38	N	GF	
MW-2			- / 16.24	M	GF	
MW-3			- / 16.92	N	GF	
MW-4			- / 15.12	N	GF	
MW-5			- / 14.78	M	GF	
MW-6			- / 14.48	M	GF	
MW-7			- / 13.89	N	GF	
MW-8			- / 21.86	N	GF	
MW-9			15.04 / 15.79	Y	GF	
MW-10			- / 16.81	N	GF	
MW-11			- / 12.73	M	GF	
MW-12			- / 15.72	N	GF	
MW-13			- / 13.91	N	GF	
79017902			- / 12.06	N	GF	
NMW-1			15.13 / 15.92	Y	GF	
NMW-2	1-8-13/0933A	0933A / 17.3'	- / 13.74	M	GF	
MENDENHALL RIVER OBSERVATIONS						
	Date/Time	High Tide/Height	Visible Sheen	Seeps		
	1-8-13/0933A	0933A / 17.3	N	N		
FREE PRODUCT RECOVERY						
	Date/Time	Free Product Level (gallons)				
Product MW-8	1-8-13/0933A	177				
Product MW-9	1-8-13/0933A	20				
Product MW-3	1-8-13/0933A	-				
Additional Comments: MONITOR 0830A → 1035A						