



**CONESTOGA-ROVERS
& ASSOCIATES**

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August 17, 2007

Mr. Bill Janes
Alaska Department of Environmental Conservation
410 Willoughby Avenue, Suite 105
Juneau, Alaska 99801

Re: **First Semiannual 2007 Groundwater Monitoring Report**
Delta Western/Former Chevron Bulk Terminal #100-1467
1417 Peninsula Street
Wrangell, Alaska
CRA Project No. 312235
ADEC No. 1994130128401

Dear Mr. Janes:

Conestoga-Rovers & Associates (CRA) is submitting this *First Semiannual 2007 Groundwater Monitoring Report* to the Alaska Department of Environmental Conservation (ADEC) on behalf of Chevron Environmental Management Company (Chevron). CRA prepared this report summarizing the groundwater monitoring and sampling activities during May 2007 at Delta Western/Former Chevron Bulk Terminal #100-1467 (site) in Wrangell, Alaska.

SITE BACKGROUND

Site Description: The site is an operating Delta Western Terminal located at 1417 Peninsula Street in Wrangell, Alaska (Figure 1). The site was developed as a fuel storage facility by Chevron in the late 1930's and is currently operated by Delta Western. Site facilities have not significantly changed since the original construction. The facilities include eight aboveground storage tanks (ASTs) that contain aviation gasoline, jet fuel, unleaded gasoline, supreme gasoline, diesel, and pre-mix gasoline. There is one underground storage tank (UST), which holds heating fuel for the site's shower house. Other site facilities include a fuel loading rack, pump house, a marine fueling dock servicing Wrangell Harbor, several covered and uncovered drum storage areas, and office and warehouse buildings (Figure 2).

FIRST SEMIANNUAL 2007 ACTIVITIES

Well Inspection and Swing-tie Field Activities: CRA personnel conducted well inspection activities on all site groundwater monitoring wells. Following the completion of hand auger boring FOC-3-HA, swing-tie measurement activities were conducted to accurately describe the boring location. CRA well inspection and swing-tie measurement forms are presented as Attachment A. Swing-tie measurement data is presented in Table 1.



Groundwater Monitoring and Sampling Field Activities: CRA personnel conducted groundwater monitoring activities on monitoring wells MW-1, MW-2, and MW-4 through MW-9 and collected groundwater samples from monitoring wells MW-2, MW-4, MW-5, and MW-6 and groundwater seep SEEP-1 on May 22, 2007. Groundwater samples could not be collected from SEEP-2 since the location was dry at the time of collection. Each monitoring well was opened and the well cap removed to allow water levels to stabilize and equilibrate. All sampled monitoring wells were purged at a flow rate of approximately 0.1 to 0.5 Liters per minute (L/min) until groundwater parameters (temperature, pH, specific conductance, oxidation reduction potential (redox), dissolved oxygen, and turbidity) stabilized to within 10% for three consecutive readings. Groundwater samples, including a duplicate sample, were collected into clean containers supplied by the analytical laboratory directly from the output. Based on historical groundwater analytical results, purged groundwater from all sampled monitoring wells was discharged to surface. The samples were submitted under chain-of-custody to Test America Analytical Testing Corporation. CRA well sampling forms are presented as Attachment B. CRA's standard operating procedures for low-flow groundwater monitoring and sampling, swing-tie measurements, and hand auger borings are presented as Attachment C.

Soil Sampling Field Activities: CRA personnel conducted soil sampling at the approximate location of former boring FOC-3 on May 22, 2007. Soil samples were collected at approximately 2.5 feet (ft) below ground surface (bgs) with the use of a hand auger. Soil samples were collected into clean containers supplied by the analytical laboratory. The samples were submitted under chain-of-custody to Test America Analytical Testing Corporation. Soil analytical results are presented in Table 2.

Groundwater Analytical Methods: Groundwater samples collected from select wells were analyzed for one or more of the following analyses:

- Gasoline Range Organics (GRO) by Alaska Method 101,
- Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B,
- Diesel Range Organics (DRO) by Alaska Method 102,
- Residual Range Organics (RRO) by Alaska Method 103,
- Volatile Organics Compounds (VOCs) by EPA Method 8260, and
- Semi-volatile Organic Compounds (SVOCs) by EPA Method 8270.

Hydrogeology: The site is located on Wrangell Island in southeastern Alaska, along the shore of the Zimovia Strait. Historical static groundwater levels have ranged between approximately 0.65 and 7.03 ft according to groundwater data from 2001 to present. Static groundwater levels ranged from approximately 0.76 (MW-4) to



7.03 ft bgs (MW-8) on May 22, 2007 with a groundwater flow direction to the south with a gradient of approximately 0.067 ft/ft (Figure 2).

Groundwater Sampling Results: PAHs concentrations in collected groundwater samples from SEEP-1 were below all laboratory detection limits and ADEC Table C cleanup levels. Detected GRO, DRO, RRO, SVOC, VOC, and BTEX concentrations in submitted groundwater samples were below ADEC Table C cleanup levels during this sampling event. Total aromatic hydrocarbon (TAHs) concentrations in groundwater were above the ADEC water criteria standards in groundwater samples collected from MW-6 at 203 µg/L. Groundwater analytical results are listed in Tables 3, 4, 5, and 6. Historical groundwater analytical results are presented as Attachment D. A copy of the laboratory analytical report is presented as Attachment E.

Soil Sampling Results: GRO and BTEX concentrations in soil samples collected from hand auger boring FOC-3-HA were below ADEC Method II *Over 40 Inch Zone Migration to Groundwater* Soil Cleanup Levels. Due to the potential for biogenic interference, DRO and RRO were analyzed by silica gel cleanup procedures in addition to Alaska series methods AK101/AK102. Results indicated DRO and RRO concentrations are below ADEC Method II Soil Cleanup Levels when analyzed with silica gel cleanup procedures.

ADEC Quality Assurance Summary: Test America Analytical Laboratories received groundwater samples in good condition with temperatures 3.2°C, 3.3°C, and 4.4°C within the acceptable temperature range. Trip blanks were included with the collected groundwater samples, enough for each requested analysis. A duplicate sample was collected from monitoring well MW-6 and submitted blind to the laboratory. The relative percent differences for the sample and its duplicate sample are within the Data Quality Objectives (DQOs) for all analytes. All surrogate recoveries and laboratory control samples were within accepted ranges. No discrepancies were noted in the ADEC Quality Assurance Summary and Laboratory Review Checklist and concentrations are consistent with current site conditions. The ADEC Quality Assurance Summary and Laboratory Data Review Checklist are presented as Attachment F.

CONCLUSIONS AND RECOMMENDATIONS

Petroleum hydrocarbons in site groundwater have been below ADEC Table C cleanup levels for at least four consecutive groundwater sampling events. TAH concentrations in groundwater samples collected from monitoring well MW-6 have exceeded ADEC water criteria standards. Groundwater near monitoring well MW-6 is presumed to be impacted from an offsite source based on site groundwater data and site observations made with the ADEC on May 26, 2007. CRA recommends destruction of all site groundwater monitoring wells to eliminate the potential for non-origin source impact via vertical migration.



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CLOSING

We appreciate the opportunity to work with Chevron and the ADEC on this project. Alaska Qualified Personnel in accordance with *18 Alaska Administrative Code (AAC) 75, Article 3 and 18 AAC 78, Article 2, 6, and 9*, conducted all project work. Please call John Riggi at (303) 433-3923 with any questions regarding this report.

Sincerely,

Conestoga-Rovers & Associates

Nicholas M. Greco
Staff Geologist

John Riggi, P.G.
Senior Project Geologist

Figures: 1 – Vicinity Map
 2 – Groundwater Elevation Contour Map

Tables: 1 – Swing-tie Measurement Data
 2 – Soil Analytical Results
 3 – Groundwater Analytical Results
 4 – Groundwater Analytical Results (PAHs)
 5 – Groundwater Analytical Results (VOCs)
 6 – Groundwater Analytical Results (SVOCs)

Attachments: A – Well Inspection and Swing-tie Measurement Forms
 B – Well Sampling Forms
 C – Standard Operating Procedures for Low-Flow Groundwater Monitoring and
 Sampling, Swing-tie Measurements, and Hand Auger Borings
 D – Historical Groundwater Analytical Results
 E – Test America Analytical Testing Corporation Analytical Report
 F – ADEC Quality Assurance Summary and Laboratory Data Review Checklist



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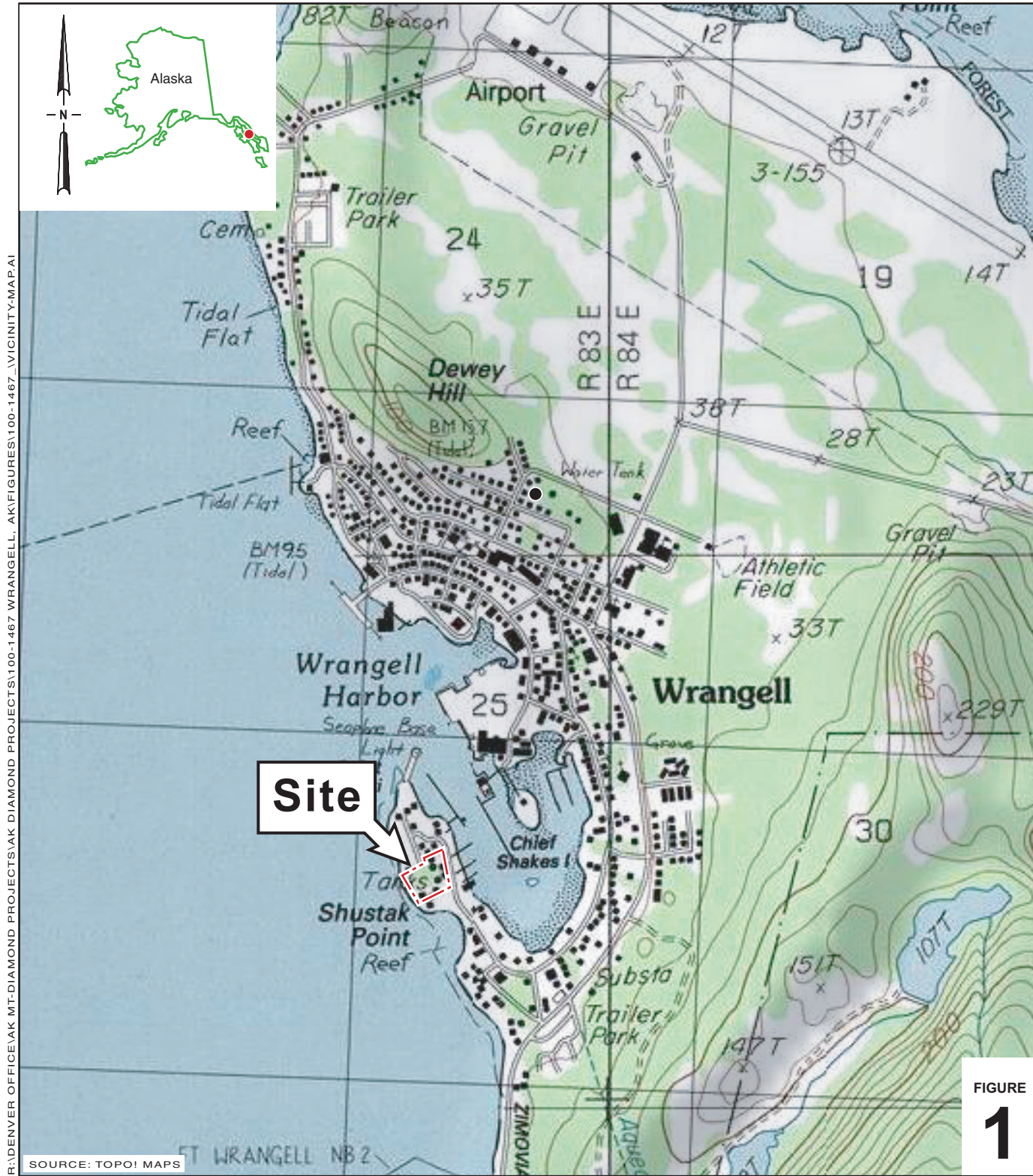
cc: Ms. Stacie Hartung-Frerichs, Chevron Environmental Management Company,
6001 Bollinger Canyon. Road, Room K2200, San Ramon, California 94583

Ms. Bev Niemann, Delta Western
2700 West Commodore Way, Seattle, Washington 98199

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Sampling\2007\100-1467 1SA07

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SOURCE: TOPOI MAPS

Delta Western / Former Chevron Bulk Terminal 100-1467

1417 Peninsula Drive
Wrangell, Alaska



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Vicinity Map



Delta Western /
Former Chevron Bulk Terminal 100-1467

Groundwater Elevation Contour Map

07/24/07

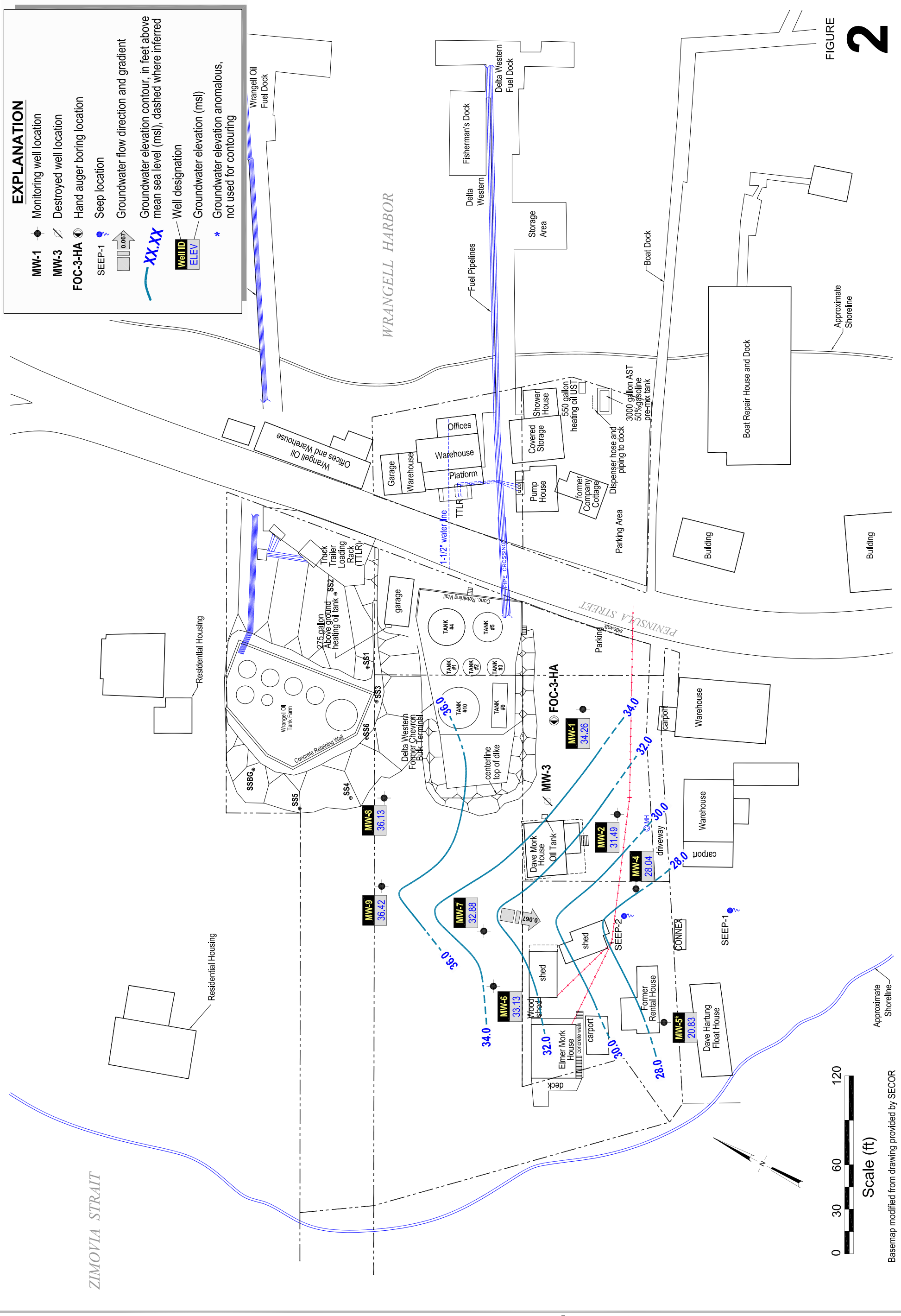


FIGURE
2

0 30 60 120
Scale (ft)
Basemap modified from drawing provided by SECOR

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Table 1. **Swing-tie Measurement Data** - Delta Western/Former Chevron Bulk Terminal #100-1467,
1417 Peninsula Street, Wrangell, Alaska

Well ID	Benchmark ID	Benchmark Description	Bearing	Distance
	1	Monitoring Well MW-1	256°	15.5 ft
FOC-3-HA	2	Southeast corner of Delta Western tank farm retaining wall	134°	85.7 ft
	3	Utility pole located south of southeast corner of building on David Mork property	358°	67.7 ft

Notes and Abbreviations:

ft = feet

° = degrees

ID = identification

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Table 2. Groundwater Analytical Results - Delta Western/Former Chevron Bulk Terminal #100-1467, 1417 Peninsula Street, Wrangell, Alaska

Well	Date	(mg/kg)						
		GRO	DRO	RRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes
FOC-3-HA	5/22/07	5.57	260	144	<0.0166	<0.0333	<0.0333	0.0878
FOC-3-HA (d)	5/22/07	5.45	258	135	<0.0166	<0.0333	<0.0333	0.071
FOC-3-HA-SGC	5/22/07	--	167	<202	--	--	--	--
Trip Blank	--	<3.33	--	--	<0.0166	<0.0333	<0.0333	<0.0500
ADEC Cleanup Levels**		260	230	9,700	0.02	4.8	5	69

Notes and Abbreviations:

mg/kg = Milligram per Kilogram

<x = Not detected above x micrograms per liter

ND = Not Detected

SGC = Silica Gel Cleanup

GRO = Gasoline Range Organics by method AK 101

DRO = Diesel Range Organics by method AK 102

RRO = Residual Range Organics by AK 103

-- = Not Measured/Not Analyzed

** = Levels established in ADEC Method II Soil Cleanup Levels, Table B1/B2 (ADEC, 18 AAC 75.341)

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Table 3. Groundwater Analytical Results - Delta Western/Former Chevron Bulk Terminal #100-1467, 1417 Peninsula Street, Wrangell, Alaska

Well	Date	TOC	DTW	GWE	GRO	DRO	RRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TAH	TAqH
MW-1	9/30/05	38.51	3.61	34.90	<50.0	<394	--	<0.200	<0.500	<0.500	<1.50	0	--
MW-1	6/29/06	38.51	3.87	34.64	--	--	--	--	--	--	--	--	--
MW-1	9/25/06	38.51	3.45	35.06	--	--	--	--	--	--	--	--	--
MW-1	5/22/07	38.51	4.25	34.26	--	--	--	--	--	--	--	--	--
MW-2	9/30/05	← UNABLE TO LOCATE →											
MW-2	6/29/06	33.36	1.67	31.69	<50.0	608	708	0.954	<0.500	<0.500	<1.00	0.954	--
MW-2	9/25/06	33.36	1.08	32.28	<80.0	<385	<462	0.902	<0.500	<0.500	<1.00	0.902	--
MW-2	5/22/07	33.36	1.87	31.49	<50.0	<0.391	<0.391	0.566	<0.500	<0.500	<1.50	0.566	--
MW-3	← WELL DESTROYED 8/10/04 →												
MW-4	9/30/05	28.80	1.33	27.47	<50.0	1,110	--	0.657	<0.500	<0.500	<1.50	0.66	2.02
MW-4	6/29/06	28.80	0.65	28.15	--	742	--	--	--	--	--	--	--
MW-4	9/25/06	28.80	0.10	28.70	--	<385	<462	--	--	--	--	--	--
MW-4	5/22/07	28.80	0.76	28.04	<50.0	<0.391	<0.391	<0.500	<0.500	<0.500	<1.50	ND	--
MW-5	9/30/05	26.47	5.31	21.16	<50.0	<391	--	<0.200	<0.500	<0.500	<1.50	ND	0.102
MW-5	6/29/06	26.47	5.32	21.15	--	--	--	<0.200	<0.500	<0.500	<1.00	ND	--
MW-5	9/25/06	26.47	4.93	21.54	--	--	--	<0.500	<0.500	<0.500	<1.00	ND	--
MW-5	5/22/07	26.47	5.64	20.83	<50.0	<0.391	<0.391	<0.500	<0.500	<0.500	<1.50	ND	--
MW-6	9/30/05	37.10	3.66	33.44	241	521	<400	<0.500	82.9	0.660	2.93	86.49	--
MW-6-DUP	9/30/05	--	--	--	241	577	<400	<0.500	82.9	0.630	2.81	86.34	--
MW-6	6/29/06	37.10	3.69	33.41	98.1	255	<750	<0.200	23.5	0.673	3.20	27.37	27.37
MW-6-DUP	6/29/06	--	--	--	739	284	<750	<0.200	232	1.58	2.89	236.47	236.47
MW-6	9/25/06	37.10	3.85	33.25	103	<385	<462	<0.500	41.1	0.514	2.27	43.88	--
MW-6-DUP	9/25/06	--	--	--	88.7	<385	<462	<0.500	33.3	0.575	2.92	36.80	--
MW-6	5/22/07	37.10	3.97	33.13	689	1.11	0.447	<0.500	203	<0.500	<1.50	203	--
MW-6-DUP	5/22/07	--	--	--	587	1.33	0.467	<0.500	228	<0.500	<1.50	203	--
MW-7	9/30/05	35.90	4.20	31.70	--	--	--	--	--	--	--	--	--
MW-7	6/29/06	35.90	3.39	32.51	--	--	--	--	--	--	--	--	--
MW-7	9/25/06	35.90	3.58	32.32	--	--	--	--	--	--	--	--	--
MW-7	5/22/07	35.90	3.02	32.88	--	--	--	--	--	--	--	--	--
ADEC Cleanup Levels**					1,300	1,500	1,100	5	1,000	700	10,000		
ADEC Water Quality Standards***												10	15

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Table 3. Groundwater Analytical Results - Delta Western/Former Chevron Bulk Terminal #100-1467, 1417 Peninsula Street, Wrangell, Alaska

Well	Date	TOC	DTW	GWE	GRO	DRO	RRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TAH	TAqH
MW-8	9/30/05	43.16	4.27	38.89	--	--	--	--	--	--	--	--	--
MW-8	6/29/06	43.16	7.05	36.11	--	--	--	--	--	--	--	--	--
MW-8	9/25/06	43.16	2.94	40.22	--	--	--	--	--	--	--	--	--
MW-8	5/22/07	43.16	7.03	36.13	--	--	--	--	--	--	--	--	--
MW-9	9/30/05	39.46	2.91	36.55	--	--	--	--	--	--	--	--	--
MW-9	6/29/06	39.46	3.05	36.41	--	--	--	--	--	--	--	--	--
MW-9	9/25/06	39.46	4.02	35.44	--	--	--	--	--	--	--	--	--
MW-9	5/22/07	39.46	3.04	36.42	--	--	--	--	--	--	--	--	--
SEEP-1	9/30/05	--	--	--	<50.0	<397	--	<0.500	<0.500	<0.500	<1.50	ND	--
SEEP-1	6/29/06	--	--	--	--	--	--	<0.200	<0.500	<0.500	<1.00	ND	ND
SEEP-1	9/25/06	--	--	--	--	--	--	<0.500	<0.500	<0.500	<1.00	ND	ND
SEEP-1	5/22/07	--	--	--	<50.0	--	--	<0.500	<0.500	<0.500	<1.50	ND	ND
SEEP-2	9/30/05	--	--	--	<50.0	<397	--	<0.500	<0.500	<0.500	<1.50	ND	--
SEEP-2	6/29/06	--	--	--	--	--	--	<0.200	<0.500	<0.500	<1.00	ND	ND
SEEP-2	9/25/06	--	--	--	--	--	--	<0.500	<0.500	<0.500	<1.00	ND	ND
SEEP-2	5/22/07	--	--	--	--	--	--	DRY					ND
Trip Blank	--	--	--	--	<50.0	--	--	<0.500	<0.500	<0.500	<1.50	ND	ND
ADEC Cleanup Levels**					1,300	1,500	1,100	5	1,000	700	10,000		
ADEC Water Quality Standards***												10	15

Notes and Abbreviations:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater Elevation

µg/L = Micrograms per Liter

<x = Not detected above x micrograms per liter

ND = Not Detected

GRO = Gasoline Range Organics by method AK 101

DRO = Diesel Range Organics by method AK 102

RRO = Residual Range Organics by AK 103

TAH = Total Aromatic Hydrocarbons (total concentrations of benzene, toluene, ethyl-benzene, and total xylenes) by EPA Method 8021B

TAqH = Total Aqueous Hydrocarbons (total concentrations of TAH and total PAHs from Table 2) by EPA Method 8270C

-- = Not Measured/Not Analyzed

** = Levels established in ADEC Groundwater Cleanup Levels, Table C (ADEC, 18 AAC 75.345)

*** = Levels established in ADEC 18 AAC 70 Water Quality Standards as amended September 1, 2006.

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Table 4. Groundwater Analytical Results (PAHs) - Delta Western/Former Chevron Bulk Terminal #100-1467, 1417 Peninsula Street, Wrangell, Alaska

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6-DUP	MW-7	MW-8	MW-9	SEEP-1	SEEP-2
Date	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06	5/22/06
	(µg/L)											
Acenaphthene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Acenaphthylene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Anthracene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Benzo (a) anthracene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Benzo (a) pyrene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Benzo (b) fluoranthene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Benzo (k) fluoranthene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Benzo (ghi) perylene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Chrysene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Dibenz (a,h) anthracene	--	--	--	--	--	--	--	--	--	--	<0.190	--
Fluoranthene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Fluorene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Indeno (1,2,3-cd) pyrene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
1-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Naphthalene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Phenanthrene	--	--	--	--	--	--	--	--	--	--	<0.0952	--
Pyrene	--	--	--	--	--	--	--	--	--	--	<0.0952	--

Notes and Abbreviations:

PAHs = Polynuclear Aromatic Hydrocarbons

µg/L = micrograms per liter

<x = Not detected above x micrograms per liter

-- = Not Measured/Not Analyzed

** = Levels established in Groundwater Cleanup Levels Table C (ADEC, 18 AAC 75.345)

Polynuclear Aromatic Hydrocarbons (PAHs) analyzed by EPA Method 8270C

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Table 5. Groundwater Analytical Results (VOCs) - Delta Western/Former Chevron Bulk Terminal #100-1467, 1417 Peninsula Street, Wrangell, Alaska

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6-DUP	MW-7	MW-8	MW-9	SEEP-1	SEEP-2
Date	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07
	(µg/L)											
Acetone	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Bromobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Bromochloromethane	--	--	--	--	--	ND	ND	--	--	--	--	--
Bromodichloromethane	--	--	--	--	--	ND	ND	--	--	--	--	--
Bromoform	--	--	--	--	--	ND	ND	--	--	--	--	--
Bromomethane	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Butanone	--	--	--	--	--	ND	ND	--	--	--	--	--
n-Butylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
sec-Butylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
tert-Butylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Carbon disulfide	--	--	--	--	--	ND	ND	--	--	--	--	--
Carbon tetrachloride	--	--	--	--	--	ND	ND	--	--	--	--	--
Chlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Chloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1-Chlorohexane	--	--	--	--	--	ND	ND	--	--	--	--	--
Chloroform	--	--	--	--	--	ND	ND	--	--	--	--	--
Chloromethane	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Chlorotoluene	--	--	--	--	--	ND	ND	--	--	--	--	--
4-Chlorotoluene	--	--	--	--	--	ND	ND	--	--	--	--	--
Dibromochloromethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2-Dibromo-3-chloropropane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2-Dibromoethane	--	--	--	--	--	ND	ND	--	--	--	--	--
Dibromomethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2-Dichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,1-Dichloroethene	--	--	--	--	--	ND	ND	--	--	--	--	--
cis-1,2-Dichloroethene	--	--	--	--	--	ND	ND	--	--	--	--	--
trans-1,2-Dichloroethene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2-Dichloropropane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,3-Dichloropropane	--	--	--	--	--	ND	ND	--	--	--	--	--
2,2-Dichloropropane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,1-Dichloropropene	--	--	--	--	--	ND	ND	--	--	--	--	--
cis-1,3-Dichloropropene	--	--	--	--	--	ND	ND	--	--	--	--	--
trans-1,3-Dichloropropene	--	--	--	--	--	ND	ND	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Hexachlorobutadiene	--	--	--	--	--	ND	ND	--	--	--	--	--
Methyl tert-butyl ether	--	--	--	--	--	ND	ND	--	--	--	--	--
n-Hexane	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Hexanone	--	--	--	--	--	ND	ND	--	--	--	--	--
Isopropylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
p-Isopropyltoluene	--	--	--	--	--	4.94	5.70	--	--	--	--	--
4-Methyl-2-pentanone	--	--	--	--	--	ND	ND	--	--	--	--	--
Methylene chloride	--	--	--	--	--	ND	ND	--	--	--	--	--
Naphthalene	--	--	--	--	--	ND	ND	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Styrene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2,3-Trichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2,4-Trichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,1,1,2-Tetrachloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
Tetrachloroethene	--	--	--	--	--	ND	ND	--	--	--	--	--
Toluene	--	--	--	--	--	203	228	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
Trichloroethene	--	--	--	--	--	ND	ND	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2,3-Trichloropropane	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2,4-Trimethylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,3,5-Trimethylbenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Vinyl chloride	--	--	--	--	--	ND	ND	--	--	--	--	--
o-Xylene	--	--	--	--	--	ND	ND	--	--	--	--	--
m,p-Xylene	--	--	--	--	--	ND	ND	--	--	--	--	--
Total Xylenes	--	--	--	--	--	ND	ND	--	--	--	--	--

Notes and Abbreviations:

VOCs = Volatile Organic Compounds

µg/L = Micrograms per Liter

<x = Not detected above x µg/L

MDL = Method Detection Limit

ND = Not detected above MDL

-- = Not Measured/Not Analyzed

** = Levels established in ADEC Groundwater Cleanup Levels, Table C (ADEC, 18 AAC 75.345)

Volatile Organic Compounds analyzed by EPA Method 8260B

CONESTOGA-ROVERS & ASSOCIATES

Table 6. Groundwater Analytical Results (SVOCs) - Delta Western/Former Chevron Bulk Terminal #100-1467, 1417 Peninsula Street, Wrangell, Alaska

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6-DUP	MW-7	MW-8	MW-9	SEEP-1	SEEP-2
Date	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07
	(µg/L)											
Acenaphthene	--	--	--	--	--	ND	ND	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	ND	ND	--	--	--	--	--
Aniline	--	--	--	--	--	ND	ND	--	--	--	--	--
Anthracene	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzo (a) anthracene	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzo (a) pyrene	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzo (b) fluoranthene	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzo (k) fluoranthene	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzo (ghi) perylene	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzoic Acid	--	--	--	--	--	ND	ND	--	--	--	--	--
Benzyl alcohol	--	--	--	--	--	ND	ND	--	--	--	--	--
Bis(2-chloroethoxy)methane	--	--	--	--	--	ND	ND	--	--	--	--	--
Bis(2-chloroethyl)ether	--	--	--	--	--	ND	ND	--	--	--	--	--
Bis(2-chloroisopropyl)ether	--	--	--	--	--	ND	ND	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	--	--	--	--	--	ND	ND	--	--	--	--	--
4-Bromophenyl phenyl ether	--	--	--	--	--	ND	ND	--	--	--	--	--
Butyl benzyl phthalate	--	--	--	--	--	ND	ND	--	--	--	--	--
Carbazole	--	--	--	--	--	ND	ND	--	--	--	--	--
4-Chloroaniline	--	--	--	--	--	ND	ND	--	--	--	--	--
4-Chloro-3-methylphenol	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Chloronaphthalene	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Chlorophenol	--	--	--	--	--	ND	ND	--	--	--	--	--
4-Chlorophenyl phenyl ether	--	--	--	--	--	ND	ND	--	--	--	--	--
3 & 4-Methylphenol (m,p-Cresols)	--	--	--	--	--	ND	147	--	--	--	--	--
2-Methylphenol (o-Cresol)	--	--	--	--	--	ND	ND	--	--	--	--	--
Chrysene	--	--	--	--	--	ND	ND	--	--	--	--	--
Di-n-butyl phthalate	--	--	--	--	--	ND	ND	--	--	--	--	--
Dibenz (a,h) anthracene	--	--	--	--	--	ND	ND	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2-Dichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
3,3-Dichlorobenzidine	--	--	--	--	--	ND	ND	--	--	--	--	--
2,4-Dichlorophenol	--	--	--	--	--	ND	ND	--	--	--	--	--
Diethyl phthalate	--	--	--	--	--	ND	ND	--	--	--	--	--
2,4-Dimethylphenol	--	--	--	--	--	ND	ND	--	--	--	--	--
Dimethyl phthalate	--	--	--	--	--	ND	ND	--	--	--	--	--
4,6-Dinitro-2-methylphenol	--	--	--	--	--	ND	ND	--	--	--	--	--
2,4-Dinitrophenol	--	--	--	--	--	ND	ND	--	--	--	--	--
2,4-Dinitrotoluene	--	--	--	--	--	ND	ND	--	--	--	--	--
2,6-Dinitrotoluene	--	--	--	--	--	ND	ND	--	--	--	--	--

CONESTOGA-ROVERS & ASSOCIATES

Table 6. Groundwater Analytical Results (SVOCs) - Delta Western/Former Chevron Bulk Terminal #100-1467, 1417 Peninsula Street, Wrangell, Alaska

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6-DUP	MW-7	MW-8	MW-9	SEEP-1	SEEP-2
Date	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07	5/22/07
	(µg/L)											
N-Nitrosodiphenylamine	--	--	--	--	--	ND	ND	--	--	--	--	--
Fluoranthene	--	--	--	--	--	ND	ND	--	--	--	--	--
Fluorene	--	--	--	--	--	ND	ND	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
Hexachlorobutadiene	--	--	--	--	--	ND	ND	--	--	--	--	--
Hexachlorocyclopentadiene	--	--	--	--	--	ND	ND	--	--	--	--	--
Hexachloroethane	--	--	--	--	--	ND	ND	--	--	--	--	--
Indeno (1,2,3-cd) pyrene	--	--	--	--	--	ND	ND	--	--	--	--	--
Isophorone	--	--	--	--	--	ND	ND	--	--	--	--	--
1-Methylnaphthalene	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	ND	ND	--	--	--	--	--
Naphthalene	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Nitroaniline	--	--	--	--	--	ND	ND	--	--	--	--	--
3-Nitroaniline	--	--	--	--	--	ND	ND	--	--	--	--	--
4-Nitroaniline	--	--	--	--	--	ND	ND	--	--	--	--	--
Nitrobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
2-Nitrophenol	--	--	--	--	--	ND	ND	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	ND	ND	--	--	--	--	--
N-Nitrosodi-n-propylamine	--	--	--	--	--	ND	ND	--	--	--	--	--
Di-n-octyl phthalate	--	--	--	--	--	ND	ND	--	--	--	--	--
Pentachlorophenol	--	--	--	--	--	ND	ND	--	--	--	--	--
Phenanthrene	--	--	--	--	--	ND	ND	--	--	--	--	--
Phenol	--	--	--	--	--	ND	ND	--	--	--	--	--
Pyrene	--	--	--	--	--	ND	ND	--	--	--	--	--
1,2,4-Trichlorobenzene	--	--	--	--	--	ND	ND	--	--	--	--	--
2,4,5-Trichlorophenol	--	--	--	--	--	ND	ND	--	--	--	--	--
2,4,6-Trichlorophenol	--	--	--	--	--	ND	ND	--	--	--	--	--

Notes and Abbreviations:

SVOCs = Semivolatile Organic Compounds

µg/L = micrograms per liter

<x = Not detected above x micrograms per liter

-- = Not Measured/Not Analyzed

** = Levels established in Groundwater Cleanup Levels Table C (ADEC, 18 AAC 75.345)

SVOCs analyzed by EPA Method 8270C

ATTACHMENT A

Well Inspection and Swing-tie Measurement Forms

WELL VAULT INSPECTION CHECKLIST

Project Name: 100-1467	Cambria Mgr: Riggsi	Field Person: NG + EP
Project Number:	Date: 05/22/07	Site Address: 1417 Peninsula St. Wrangell, AK
General Tasks: GWS + well Inspection		

Well ID	Cap Functioning	Lock Functioning	Lid Seal Intact	All Bolts Present/Functioning	Bolt Tabs Functioning	No Standing Water Inside Vault	No Standing Water On Top of Vault	Annular Seal Intact	Surface Seal Intact	Well Casing Intact	Vault Elevation Appropriate	Vault Properly Labeled	Repair Form Completed	Notes
MW-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		stovepipe unstable
MW-6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		stovepipe unstable
MW-9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		stovepipe unstable
MW-8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
MW-4	✓	✓	✓	✓	✓	No	✓	✓	✓	✓	No	No		

Comments and Site Specific Issues:

MONITORING WELL SWING-TIE DATA SHEET



Site ID: 100-1467

Project Number: _____

Date: 05/22/07

****NOTE: DO NOT ADJUST FOR CHANGE IN DECLINATION****

Well ID: FOC-3 (Hand-auger location)

Benchmark ID	Benchmark Description	Bench Mark and Compass Location	Bearing	Distance
1	mw-1		256°	15.5
2	SE corner of tank form retaining wall		134°	85.7
3	Utility pole located South of SE corner of building on David mark property		358°	67.7

Well ID: _____

Benchmark ID	Benchmark Description	Bench Mark and Compass Location	Bearing	Distance
1				
2				
3				

Well ID: _____

Benchmark ID	Benchmark Description	Bench Mark and Compass Location	Bearing	Distance
1				
2				
3				

ATTACHMENT B

Well Sampling Forms



CONESTOGA-ROVERS
& ASSOCIATES

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Depth to Bottom	Product Thickness	Amount of Product Removed	Casing Diam.	Comments
MW-1	0923	—	4.25	7.53	—	—	2"	
MW-5	0935	—	5.64	11.74	—	—	2"	
MW-7	0945	—	3.02	8.61	—	—	2"	
MW-6	0950	—	3.97	8.02	—	—	2"	
MW-9	0957	—	3.04	5.88	—	—	2"	
MW-8	1000	—	7.03	8.54	—	—	2"	
MW-4	1130	—	0.76	6.14	—	—	2"	
MW-2	1400	—	1.87	5.00	—	—	2"	
SEEP-2 is dry								

Project Name: 100-1467 Project Number/Task: _____

Technician: NG+EP Date: 05/22/07



WELL SAMPLING FORM

Project Name: 100-1467	CRA Mgr: Riggs	Well ID: MW-2
Project Number:	Date: 5/22/07	Well Yield:
Site Address: 1417 Peninsula St Waukegan, AK	Sampling Method: low-flow peri pump	Well Diameter: 2"
		Technician(s): EP/NG
Initial Depth to Water: 1.87	Total Well Depth: 5.00	Water Column Height: 3.13
Volume/ft: 0.16	1 Casing Volume: 0.5	3 Casing Volumes: 1.5
Purging Device: peri pump	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	DTW	Temp (°C)	ORP	DO %	pH	Turb.	Cond. (uS)	Comments
				-45.8					
1414	1	1.91	10.4	0.048	22.1	6.13	58.67	0.348	
1417	2	1.93	9.85	57.2	9.3	6.10	21.14	0.333	
1419	3	1.94	9.64	-58.7	8.4	6.09	14.66	0.334	
1420	4	1.95	9.54	-61.3	7.8	6.11	3.65	0.336	
1421	5	1.94	9.50	-64.9	7.0	6.10	4.11	0.339	
1423	6	1.94	9.50	-67.8	5.2	6.07	4.13	0.340	
1424	7	1.94	9.50	-69.5	5.0	6.07	2.73	0.341	
1425	8	1.98	9.44	-70.6	4.9	6.08	1.83	0.342	
1427	9	1.97	9.42	-70.1	4.9	6.09	2.19	0.343	
1428	10	1.97	9.38	-67.8	5.0	6.15	1.98	0.343	

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-2	5/22/07	1430	Vofa 125 mL Amber	HCl HCl	GRO BTEX PRO PAC	AK101 B021 AK102 AK103



WELL SAMPLING FORM

Project Name: 100-1467	CRA Mgr: Riggi	Well ID: mw-4
Project Number:	Date: 5/22/07	Well Yield:
Site Address: 417 Peninsula St Wrangell, AK	Sampling Method: low-flow	Well Diameter: 2"
		Technician(s): EP/NGO
Initial Depth to Water: 0.16 0.76	Total Well Depth: 6.14	Water Column Height: 5.38
Volume/ft: 0.16	1 Casing Volume: .861	3 Casing Volumes: 2.6
Purging Device: Peri Pump	Did Well Dewater?: No	Total Gallons Purged: 1
Start Purge Time: 1227	Stop Purge Time: 1245	Total Time: 18m

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	DTW	Temp. (°C)	ORP	DO %	pH	Turb	Cond. (uS)	Comments
1230		1.44	7.71	-102.7	1.03	6.18	2.25	0.320	
1232		1.77	7.65	-108.6	1.07	6.16	4.96	0.317	
1234		1.77	7.57	-113.9	0.59	6.17	1.90	0.320	
1237		1.83	7.46	-118.0	3.9	6.20	2.76	0.321	
1239		1.87	7.46	-119.6	3.5	6.20	2.60	0.322	
1241		1.88	7.49	-120.7	3.3	6.20	3.48	0.323	

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	05/22/07	1245	VOA 125 mL	HCl	GRO, DTEX, DRO/ RRD	



WELL SAMPLING FORM

Project Name: 100-1467	CRA Mgr: Riggi	Well ID: MW-5
Project Number:	Date: 5/22/07	Well Yield:
Site Address: 1417 peninsula St. Wrangell, AK	Sampling Method: low-flow peri pump	Well Diameter: 2"
		Technician(s): EP/NG
Initial Depth to Water: 5.64	Total Well Depth: 11.74	Water Column Height: 6.10
Volume/ft: 0.16	1 Casing Volume: 0.98	3 Casing Volumes: ~3.0
Purging Device: peri pump	Did Well Dewater?: NO	Total Gallons Purged: 2 gal
Start Purge Time: 1315	Stop Purge Time: 1345	Total Time: 30 min

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	DTW	Temp. (°C)	ORP	DO %	pH	Turb.	Cond. (uS)	Comments
1317	1	7.18	8.69	-88.7	8.4	6.44	26.20	0.601	
1319	2	7.46	9.14	-85.9	5.16	6.39	13.58	0.564	
1321	3	7.58	9.76	-87.7	4.80	6.38	11.76	0.545	
1323	4	7.71	9.11	-88.6	4.50	6.36	9.26	0.528	
1325	5	7.86	9.14	-86.7	4.40	6.33	18.75	0.519	
1327	6	8.02	9.14	-84.8	4.50	6.30	16.19	0.514	
1331	7	8.17	9.15	-83.4	3.80	6.27	16.71	0.507	
1335	8	8.59	9.12	-81.3	3.30	6.29	18.32	0.497	
1340	9	8.69	9.08	-81.2	3.30	6.27	16.15	0.508	

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-5	5/22/07	1345	VOA 125 mL Amber	HCl HCl	GR0/BTEX DR0/RRO	AK101/8021 AK102/AK103



WELL SAMPLING FORM

Project Name: 100-1467	CRA Mgr: Riggs	Well ID: MW-6
Project Number:	Date: 5/22/07	Well Yield:
Site Address: 1417 Peninsula St Wrangell, AK	Sampling Method: low-flow peristaltic pump	Well Diameter: 2"
		Technician(s): EP/NG
Initial Depth to Water: 3.97	Total Well Depth: 8.02	Water Column Height: 4.05
Volume/ft: 0.16	1 Casing Volume: 0.65	3 Casing Volumes: ~2.00
Purging Device: per pump	Did Well Dewater?: NO	Total Gallons Purged: 1
Start Purge Time: 1517	Stop Purge Time: 1540	Total Time: 23 m

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	DTW	Temp (°C)	ORP	DO %	pH	Turb	Cond. (uS)	Comments
1523	1	5.20	8.27	-32.6	9.5	5.47	6.28	0.366	
1525	2	5.19	8.38	-33.1	8.0	5.42	12.15	0.353	
1527	3	5.20	8.43	-31.7	6.7	5.43	15.39	0.438	
1529	4	5.20	8.48	-29.3	6.2	5.44	15.00	0.331	
1531	5	5.19	8.56	-26.8	5.8	5.46	15.77	0.332	

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-6	5/22/07	1530	VOA 125 ml AMBER	HCl HCl	Geo BTEX/VOCs DRO RRO	AK101 3260 AK102 AK103
MW-6	5/22/07	1530	1-liter amber	NONE	Geo SVOCs	3270
DWP-1	5/22/07	—	VOA 125 ml Amber	HCl	Geo VOCs w/ BTEX DRO & RRO	AK101 3260 AK102 & 103
DWP-1	5/22/07	—	1-liter Amber	NONE	SVOCs	

ATTACHMENT C

Standard Operating Procedures for Low-Flow Groundwater Monitoring and Sampling, Swing-tie Measurements, and Hand Auger Borings



CONESTOGA-ROVERS
& ASSOCIATES

STANDARD OPERATING PROCEDURES FOR LOW FLOW GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Cambria's specific field procedures are summarized below.

Groundwater Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain separate phase hydrocarbons (SPH) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of SPH, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be monitored last. In wells with a history of SPH, the SPH level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. All monitoring and sample equipment (e.g., pumps, in-line water quality measurement device, tubing, etc.) shall be decontaminated using soapy water consisting of Liquinox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a sheen or measurable thickness of SPH or floating SPH globules. Prior to purging, all monitoring equipment shall be decontaminated and calibrated to manufacturer's recommendations. Wells shall be purged by using an aboveground pump (e.g. peristaltic or Wattera™) or down-hole pump (e.g. Grundfos™ or DC Purger pump) provided the pump has flow control. The pump intake shall be slowly lowered down the well and set in the middle of the screened interval as to not disturb the water column. An in-line water quality measurement device (e.g., flow-through cell) shall be used to establish the stabilization time for the necessary parameters (e.g., pH, temperature, specific conductance, oxidation reduction potential (redox), dissolved oxygen, and turbidity).

Groundwater wells shall be purged at a rate of approximately 0.1 to 0.5 Liters per minute (L/min), unless site conditions warrant otherwise, until groundwater parameters have stabilized to within 10% for three consecutive readings. Temperature, pH, specific conductance, oxidation reduction potential (redox), dissolved oxygen, and turbidity shall be measured and recorded at the start and completion of purging. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor.



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Groundwater samples shall be collected into clean containers supplied by the analytical laboratory directly from the output after stabilization of groundwater parameters has been established. New latex gloves and disposable tubing shall be used for sampling each well. If a down-hole pump is used for groundwater purging and collection, it shall be decontaminated before purging and sampling each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. One copy of the COC shall be kept in the QA/QC file and another copy shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Well Development

Wells shall be developed using a combination of groundwater surging and extraction. A surge block shall be used to swab the well and agitate the groundwater in order to dislodge any fine sediment from the sand pack. After approximately ten minutes of swabbing the well, groundwater shall be extracted from the well using a bailer, pump and/or reverse air-lifting through a pipe to remove the sediments from the well. Alternating surging and extraction shall continue until the sediment volume in the groundwater (i.e. turbidity) is negligible, which typically requires extraction of approximately ten well-casing volumes of groundwater. Preliminary well development usually is performed during well installation prior to placing the sanitary surface seal to ensure sand pack stabilization. Well development that is performed after surface seal installation, should occur 72 hours after seal installation to ensure that the cement has had adequate time to set.



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Waste Handling and Disposal

Groundwater extracted during development and sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums. Each drum shall be labeled with the contents, date of generation, generator identification and consultant contact. If hydrocarbon concentrations in the purged groundwater are below ADEC cleanup levels or the site is in a remote area (pending ADEC approval) groundwater will be discharged to the ground surface, at least 100 feet from the nearest surface water body.

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STANDARD FIELD PROCEDURES FOR SWING-TIE MEASUREMENTS

This document presents standard field methods for swing-tie measurements. These procedures are designed to comply with CRA guidelines and client expectations. Specific field procedures are summarized below.

SWING-TIE MEASUREMENTS

Objectives

The objective of obtaining swing-tie measurements is to accurately define the location of a specific point (commonly a soil boring point, well vault location, etc.) through the use of measured distances and angles. All measurements are performed by, or under the supervision of an Alaska Qualified Personnel in accordance with *18 Alaska Administrative Code (AAC) 75, Article 3 and 18 AAC 78, Article 2, 6, and 9.*

Swing-tie Measurement

The method of taking sets of measurements referred to as “swing-ties” is the process of finding the distance and angle between the object point and a reference point. Three fixed and relatively permanent reference points in varying directions surrounding the object point are selected to ensure precision and accuracy. A measuring device, such as a tape measure, is used to gauge the distance between the object point and a reference point. A compass is used to calculate the bearing of magnetic north from the reference point to the object point. It is important to NOT adjust for a change in declination.



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STANDARD FIELD PROCEDURES FOR HAND-AUGER SOIL BORINGS

This document describes Conestoga-Rovers & Associates' standard field methods for drilling and sampling soil borings using a hand-auger. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate groundwater depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of an Alaska Qualified Person (AQP). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel),
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Boring and Sampling

Hand-auger borings are typically drilled using a hand-held bucket auger to remove soil to the desired sampling depth. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the augered hole. The vertical location of each soil sample is determined using a tape measure. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Augering and sampling equipment is decontaminated per Alaska Department of Environmental Conservation regulations prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Single use plastic sterile-scoops are used to transfer approximately 20 to 40 grams of soil sample from the hand-auger bucket to 4 oz. amber glass jars with Teflon lined screw cap lids containing methanol preservative such that the entire vial of methanol covers the matrix. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.



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Field Screening

Some of the remaining soil from the hand-auger is collected in a plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the bag headspace, extracting the vapor through a slit in the bag. PID measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

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ATTACHMENT D

Historical Groundwater Analytical Results

Table 1
Groundwater Analytical Data
(Petroleum Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
 1417 Peninsula Street
 Wrangell, Alaska

Sample Description	Date Monitored	Well Elevation (feet-MSL)	Depth to Water (feet TOC)	Groundwater Elevation (feet-MSL)	SPH Thickness (feet)	Date Sampled	GRO (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	DRO (ppb)	RRO (ppb)	Total TAH (ppb)	Total TAqH (ppb)	
<i>Groundwater Monitoring Wells</i>																
MW-1	10/31/01	38.51	5.47	33.04	0.00	10/31/01	<50.0	0.767	<0.500	<0.500	<1.00	612	<750	0.767	--	
	03/27/02	38.51	3.24	35.27	0.00	03/27/02	<50.0	<0.200	13.8	<0.500	<1.00	1,010	<750	13.8	--	
	06/24/02	38.51	5.92	32.59	0.00	06/25/02	<50.0	1.64	3.96	<0.500	<1.00	874	<750	5.60	--	
	09/23/02	38.51	3.32	35.19	0.00	09/23/02	<50.0	<0.200	1.50	<0.500	<1.00	308	<750	1.50	--	
	12/13/02	38.51	3.22	35.29	0.00	12/13/02	<50.0	<0.200	0.944	<0.500	<1.00	382	<750	0.944	--	
	03/28/03	38.51	3.74	34.77	0.00	03/29/03	<50.0	<0.200	<0.500	<0.500	<1.00	149	<750	ND	--	
	10/02/03	38.51	4.01	34.50	0.00	10/03/03	<50.0	<0.200	<0.500	<0.500	<1.00	376	<750	ND	1.906	
	08/10/04	38.51	4.56	33.95	0.00	08/12/04	<50.0	0.210	<0.500	<0.500	<1.00	<100	<750	0.210	--	
02/21/05	38.51	4.80	33.71	0.00	02/21/05	<50.0	<0.200	1.95	<0.500	<1.00	<100	<750	1.95	2.64		
MW-2	10/31/01	33.36	1.66	31.70	0.00	10/31/01	80.2	16.0	0.683	<0.500	7.57	2,240	<750	24.3	26.8	
	03/27/02	33.36	0.60	32.76	0.00	03/27/02	61.8	8.93	0.652	0.634	5.37	2,030	819	15.6	17.0	
	06/24/02	33.36	3.90	29.46	0.00	06/25/02	67.8	21.9	<0.500	<0.500	<1.00	2,700	2,370	21.9	23.2	
	09/23/02	33.36	1.01	32.35	0.00	09/23/02	<50.0	7.15	<0.500	<0.500	1.47	426	<750	8.62	10.7	
	12/13/02	33.36	1.91	31.45	0.00	12/14/02	<50.0	5.51	<0.500	<0.500	1.07	715	<750	6.58	7.24	
	03/28/03	33.36	1.26	32.10	0.00	03/29/03	<50.0	6.07	<0.500	<0.500	1.30	582	<750	7.37	7.94	
	10/02/03	33.36	3.37	29.99	0.00	10/03/03	<50.0	1.27	<0.500	<0.500	<1.00	738	<750	1.27	2.91	
	08/10/04	33.36	3.73	29.63	0.00	08/12/04	<50.0	2.10	<0.500	<0.500	<1.00	188	<750	2.10	--	
02/21/05						WELL INACCESSIBLE										
MW-3	10/31/01	34.65	0.00	34.65	0.00	10/31/01	243	12.3	21.3	4.21	25.6	2,150	<750	63.4	--	
	03/27/02	34.65	0.02	34.63	0.00	4/26/02 ^C	363	8.65	50.2	7.38	22.0	3,920	1,190	88.2	--	
	06/24/02	34.65	0.60	34.05	0.00	06/25/02	363	7.99	57.2	10.3	20	1,840	859	95.5	--	
	09/23/02	34.65	0.00	34.65	0.00	09/23/02	181	2.11	6.88	4.11	4.75	1,440	<750	17.9	--	
	12/13/02	34.65	0.50	34.15	0.00	12/14/02	314	4.90	15.6	6.16	12.1	3,080	938	38.8	--	
	03/28/03	34.65	0.05	34.60	0.00	03/29/03	286	4.76	3.60	8.18	10.4	1,630	<750	27.0	--	
	10/02/03	34.65	0.12	34.53	0.00	10/03/03	342	4.43	2.03	6.86	7.34	580	<750	20.7	--	
	08/10/04	34.65	0.83	33.82	0.00	08/10/04	305	5.06	4.63	0.703	3.08	2,470	<750	13.5	18.3	
						WELL REMOVED ON 8/10/04										

Table 1
Groundwater Analytical Data
(Petroleum Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
1417 Peninsula Street
Wrangell, Alaska

Sample Description	Date Monitored	Well Elevation (feet-MSL)	Depth to Water (feet TOC)	Groundwater Elevation (feet-MSL)	SPH Thickness (feet)	Date Sampled	GRO (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	DRO (ppb)	RRO (ppb)	Total TAH (ppb)	Total TAqH (ppb)	
MW-4	10/31/01	28.80	0.21	28.59	0.00	10/31/01	<50.0	1.43	2.18	0.510	2.30	7,230	922	6.42	7.64	
	03/27/02	28.80	0.50	28.30	0.00	03/27/02	90.3	2.94	28.1	<0.500	<1.00	1,950	<750	31.0	32.4	
	06/24/02	28.80	0.64	28.16	0.00	06/25/02	104	3.12	36.4	<0.500	<1.00	1,830	776	39.5	40.2	
	09/23/02	28.80	0.00	28.80	0.00	09/23/02	77.3	1.80	27.1	<0.500	<1.00	735	<750	28.9	29.6	
	12/13/02	28.80	1.38	27.42	0.00	12/14/02	<50.0	1.39	1.31	<0.500	<1.00	1,990	<750	2.70	3.30	
	03/28/03	28.80	0.40	28.40	0.00	03/29/03	<50.0	2.23	<0.500	<0.500	<1.00	2,010	<750	2.23	3.55	
	10/02/03	28.80	0.57	28.23	0.00	10/03/03	<50.0	1.47	<0.500	<0.500	<1.00	1,790	<750	1.47	3.45	
	08/10/04	28.80	1.02	27.78	0.00	08/12/04	<50.0	2.09	<0.500	<0.500	<1.00	724	<750	2.09	5.27	
	02/21/05															
							WELL INACCESSIBLE									
MW-5	10/31/01	21.47	0.00	21.47	0.00	10/31/01	<50.0	<0.200	0.662	<0.500	<1.00	771	<750	0.662	12.7	
	03/27/02	21.47	0.30	21.17	0.00	4/26/02 ^c	106	<0.200	45.8	<0.500	<1.00	1,050	<750	45.8	49.8	
	06/24/02	21.47	0.33	21.14	0.00	06/25/02	137	<0.200	54.3	<0.500	<1.00	744	<750	54.3	--	
	09/23/02	31.47 ^b	9.38	22.09	0.00	09/23/02	69.5	<0.200	22.4	<0.500	<1.00	325	<750	22.4	24.9	
	12/13/02	31.47	9.77	21.70	0.00	12/13/02	<50.0	<0.200	15.4	<0.500	<1.00	311	<750	15.4	--	
	03/28/03	26.47	5.67	20.80	0.00	03/29/03	<50.0	<0.200	2.54	<0.500	<1.00	216	<750	219	219	
	10/02/03	26.47	5.69	20.78	0.00	10/03/03	439	<0.200	281	<0.500	<1.00	488	<750	281	283	
	08/10/04	26.47	5.83	20.64	0.00	08/12/04	<50.0	<0.200	0.808	<0.500	<1.00	<100	<750	0.808	1.06	
	02/21/05	26.47	4.78	21.69	0.00	02/21/05	<50.0	<0.200	0.887	<0.500	<1.00	<100	<750	0.887	2.11	
MW-6	10/31/01	37.10	4.96	32.14	0.00	11/01/01	<50.0	0.391	<0.500	<0.500	<1.00	1,250	<840	0.391	0.491	
	03/27/02	37.10	3.88	33.22	0.00	4/26/02 ^c	541	0.397	12.2	<0.500	<1.00	13,200	<15,000	12.6	--	
	06/24/02	37.10	4.74	32.36	0.00	06/25/02	555	1.01	26.2	<2.50	<5.00	66,000	<7,500	27.2	--	
	09/23/02	37.10	3.95	33.15	0.00	09/23/02	1,210	<2.00	256	<5.00	<10.0	21,500	<7,500	256	475	
	12/13/02	37.10	4.73	32.37	0.00	12/13/02	1,420	1.74	309	<2.50	<5.00	31,000	803	311	--	
	03/28/03	37.10	3.61	33.49	0.00	03/29/03	455	3.61	236	3.06	17.6	7,720	<750	260	--	
	10/02/03	37.10	3.61	33.49	0.00	10/03/03	1,820	4.93	991	5.96	29.1	935	<750	1031	1035	
	08/10/04	37.10	4.88	32.22	0.00	08/12/04	347	0.718	128	1.42	4.90	2,420	792	135	139	
	02/21/05	37.10	3.68	33.42	0.00	02/21/05	740	1.12	433	2.25	9.24	265	<750	446	448	

Table 1
Groundwater Analytical Data
(Petroleum Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
 1417 Peninsula Street
 Wrangell, Alaska

Sample Description	Date Monitored	Well Elevation (feet-MSL)	Depth to Water (feet TOC)	Groundwater Elevation (feet-MSL)	SPH Thickness (feet)	Date Sampled	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	DRO	RRO	Total TAH	Total TAqH
							(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	
MW-7	10/31/01	35.90	2.53	33.37	0.00	11/01/01	<50.0	0.271	<0.500	<0.500	<1.00	609	<750	0.271	--
	03/27/02	35.90	3.02	32.88	0.00	03/27/02	155	<0.400	68.3	<1.00	<2.00	7,610	<3,750	68.3	--
	06/24/02	35.90	3.63	32.27	0.00	06/25/02	234	<0.200	95.9	<0.500	<1.00	10,300	<750	95.9	--
	09/23/02	35.90	3.12	32.78	0.00	09/23/02	525	0.274	184	<0.500	<1.00	<100	<750	187	--
	12/13/02	35.90	3.85	32.05	0.00	12/14/02	374	<0.200	170	<0.500	<1.00	1,960	<750	170	--
	03/28/03	35.90	2.74	33.16	0.00	03/29/03	223	<0.200	146	<0.500	<1.00	799	<750	146	--
	10/02/03	35.90	2.78	33.12	0.00	10/03/03	97.5	<0.200	59.3	<0.500	<1.00	827	<750	59.3	--
	08/10/04	35.90	4.60	31.30	0.00	08/12/04	<50.0	<0.200	1.75	<0.500	<1.00	<100	<750	1.75	--
02/21/05	35.90	2.42	33.48	0.00	02/21/05	<50.0	<0.200	0.808	<0.500	<1.00	<100	<750	0.808	--	
MW-8	10/31/01	43.16	6.24	36.92	Sheen	11/01/01	981	2.39	2.97	21.6	43.7	83,900	<30,000	70.7	--
	03/27/02	43.16	4.50	38.66	0.00	03/27/02	<50.0	<0.200	<0.500	<0.500	<1.00	10,200	<7,500	ND	--
	06/24/02	43.16	7.78	35.38	0.00	06/26/02	395	2.81	11.7	21.7	29.3	11,900	<750	65.5	--
	09/23/02	43.16	4.96	38.20	0.00	09/23/02	101	<0.200	19.3	<0.500	<1.00	4,480	<750	19.3	--
	12/13/02	43.16	6.00	37.16	0.00	12/14/02	87.7	<0.200	12.2	<0.500	<1.00	7,330	<750	12.2	--
	03/28/03	43.16	6.44	36.72	0.00	03/29/03	<50.0	<0.200	1.18	<0.500	<1.00	6,390	<750	1.18	--
	10/02/03	43.16	7.14	36.02	0.00	10/03/03	131	0.414	11.4	1.04	1.8	5,050	<750	14.7	--
	08/10/04	43.16	8.30	34.86	0.00	08/12/04	<50.0	<0.200	<0.500	<0.500	<1.00	1,400	<750	ND	--
02/21/05	43.16	3.14	40.02	0.00	02/21/05	<50.0	<0.200	<0.500	<0.500	<1.00	<100	<750	ND	--	
MW-9	10/31/01	39.46	2.35	37.11	0.00	11/01/01	<50.0	0.389	0.717	<0.500	<1.00	404	<750	1.11	--
	03/27/02	39.46	3.00	36.46	0.00	03/27/02	<50.0	<0.200	1.36	<0.500	<1.00	802	<750	1.36	--
	06/24/02	39.46	3.76	35.70	0.00	06/25/02	<50.0	<0.200	2.07	<0.500	<1.00	270	<750	2.07	--
	09/23/02	39.46	2.79	36.67	0.00	09/23/02	<50.0	0.277	7.50	<0.500	<1.00	367	<750	7.78	--
	12/13/02	39.46	3.97	35.49	0.00	12/13/02	<50.0	<0.200	<0.500	<0.500	<1.00	187	<750	ND	--
	03/28/03	39.46	3.04	36.42	0.00	03/29/03	<50.0	<0.200	<0.500	<0.500	<1.00	<100	<750	ND	--
	10/02/03	39.46	3.09	36.37	0.00	10/03/03	<50.0	<0.200	3.61	<0.500	<1.00	540	<750	3.61	--
	08/10/04	39.46	3.74	35.72	0.00	08/12/04	<50.0	<0.200	<0.500	<0.500	<1.00	<100	<750	ND	--
02/21/05	39.46	2.27	37.19	0.00	02/21/05	<50.0	<0.200	<0.500	<0.500	<1.00	143	<750	ND	--	
<i>Tank Farm Pit Grab Samples</i>															
TF-2	--	--	--	--	--	10/01/03	1,110	1.64	1.09	6.67	12.1	4,380	<750	21.5	--
TF-4	--	--	--	--	--	10/01/03	1,240	5.81	1.28	97.3	102	53,900	2,550	206	--

Table 1
Groundwater Analytical Data
(Petroleum Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
1417 Peninsula Street
Wrangell, Alaska

Sample Description	Date Monitored	Well Elevation (feet-MSL)	Depth to Water (feet TOC)	Groundwater Elevation (feet-MSL)	SPH Thickness (feet)	Date Sampled	GRO (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	DRO (ppb)	RRO (ppb)	Total TAH (ppb)	Total TAqH (ppb)
<i>Seep Samples</i>															
Seep-1	--	--	--	--	--	11/01/01	<50.0	<0.200	<0.500	<0.500	<1.00	824	<750	ND	72.0
	--	--	--	--	--	03/27/02	<50.0	<0.200	<0.500	<0.500	<1.00	293	<750	ND	1.00
	--	--	--	--	--	06/25/02	<50.0	<0.200	<0.500	<0.500	<1.00	<100	<750	ND	9.50
	--	--	--	--	--	09/23/02	<50.0	<0.200	<0.500	<0.500	<1.00	178	<750	ND	35.2
	--	--	--	--	--	12/14/02	<50.0	<0.200	<0.500	<0.500	<1.00	152	<750	ND	ND
	--	--	--	--	--	03/29/03	<50.0	<0.200	1.09	<0.500	2.14	<100	<750	3.23	3.63
	--	--	--	--	--	10/03/03	<50.0	<0.200	<0.500	<0.500	<1.00	152	<750	ND	127
	--	--	--	--	--	08/10/04					DRY				
	--	--	--	--	--	02/21/05					DRY				
Seep-2	--	--	--	--	--	11/01/01	69.8	1.09	2.75	1.05	13.2	755	<1,430	18.1	19.0
	--	--	--	--	--	03/27/02	<50.0	<0.200	<0.500	<0.500	<1.00	<100	<750	ND	ND
	--	--	--	--	--	06/26/02	<50.0	0.275	0.572	<0.500	<1.00	642	1,160	0.847	1.68
	--	--	--	--	--	09/23/02	<50.0	<0.200	<0.500	<0.500	<1.00	<100	<750	ND	--
	--	--	--	--	--	12/14/02	<50.0	<0.200	<0.500	<0.500	<1.00	144	<750	ND	--
	--	--	--	--	--	03/29/03	<50.0	<0.200	<0.500	<0.500	<1.00	<100	<750	ND	ND
	--	--	--	--	--	10/03/03					DRY				
	--	--	--	--	--	08/10/04					DRY				
	--	--	--	--	--	02/21/05					DRY				
Table C Cleanup Levels	--	--	--	--	--	--	1,300	5	1,000	700	10,000	1,500	1,100	--	--
Surface Water Standards	--	--	--	--	0.00	--	--	--	--	--	--	--	--	10	15

Notes:

GRO = gasoline range organics
DRO = diesel range organics
RRO = residual range organics
MSL = mean sea level
TOC = top of casing
TAH = total aromatic hydrocarbons (totalled concentrations of benzene, toluene, ethyl-benzene, and total xylenes)
TAqH = total aqueous hydrocarbons (totalled concentrations of TAH and total PAHs from Table 2)
-- = not analyzed
ND = not detected - all compounds
ppb = parts per billion
< = not detected at or above laboratory detection limit shown
a = not detected at or above laboratory detection limit shown
b = 10.0 feet of casing added to well due to residential construction activities.
c = Re-sampled on 4/26/02 for GRO/BTEX Compounds due to container breakage by laboratory.
d = 5.0 feet removed following residential construction activities

Table 2
Groundwater Analytical Data
(Polynuclear Aromatic Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
 1417 Peninsula Street
 Wrangell, Alaska

Analyte	Table C Standards	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3
		10/3/2003	10/31/2001	3/27/2002	6/25/2002	9/23/2002	12/14/2002	10/3/2003	10/3/2003	8/10/2004
<i>Polynuclear Aromatic Hydrocarbons in ppb</i>										
1-Methylnaphthalene	--	--	--	--	--	--	--	--	--	1.59
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	0.140
Acenaphthene	2,200	0.528	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.328
Acenaphthylene	--	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Anthracene	11,000	0.604	<0.100	<0.100	<0.100	<0.100	<0.100	0.604	<0.100	<0.100
Benzo (a) anthracene	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Benzo (a) pyrene	0.2	0.566	<0.100	<0.100	<0.100	<0.100	<0.100	0.566	<0.100	0.260
Benzo (b) fluoranthene	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Benzo (ghi) perylene	--	<0.100	<0.100	0.152	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Benzo (k) fluoranthene	10	<0.100	<0.100	<0.100	<0.100	0.491	<0.100	<0.100	<0.100	<0.100
Chrysene	100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Dibenzo (a,h) anthracene	0.1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Fluoranthene	1,460	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Fluorene	1,460	<0.100	0.151	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.864
Indeno (1,2,3-cd) pyrene	1	<0.100	<0.100	<0.100	<0.100	0.453	<0.100	<0.100	<0.100	<0.100
Napthalene	1,460	0.208	2.11	1.20	1.30	1.17	0.660	0.472	0.340	1.41
Phenanthrene	--	<0.100	0.132	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.251
Pyrene	1,100	<0.100	0.113	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TOTAL PAH:	--	1.91	2.51	1.35	1.30	2.11	0.660	1.640	0.340	4.84

Notes:
 PAH = polynuclear aromatic hydrocarbons
 -- = not analyzed
 < = not detected at or above laboratory detection
 limit shown
 ppb = parts per billion

Table 2
Groundwater Analytical Data
(Polynuclear Aromatic Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
 1417 Peninsula Street
 Wrangell, Alaska

Analyte	Table C Standards	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-5	MW-5
		10/31/2001	3/27/2002	6/25/2002	9/23/2002	12/14/2002	10/3/2003	8/12/2004	10/31/2001	3/27/2002
<i>Polynuclear Aromatic Hydrocarbons in ppb</i>										
1-Methylnaphthalene	--	--	--	--	--	--	--	0.362	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	0.209	--	--
Acenaphthene	2,200	<0.100	0.133	0.120	<0.100	<0.100	0.736	0.606	0.202	<0.100
Acenaphthylene	--	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Anthracene	11,000	<0.100	<0.100	<0.100	<0.100	<0.100	0.623	<0.100	0.956	0.171
Benzo (a) anthracene	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.08	0.457
Benzo (a) pyrene	0.2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.754	<0.100
Benzo (b) fluoranthene	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.01	0.686
Benzo (ghi) perylene	--	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.423	0.133
Benzo (k) fluoranthene	10	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.331	0.229
Chrysene	100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.901	0.343
Dibenzo (a,h) anthracene	0.1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.202	<0.100
Fluoranthene	1,460	0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.91	0.648
Fluorene	1,460	0.337	0.114	<0.100	<0.100	<0.100	<0.100	0.242	0.294	0.114
Indeno (1,2,3-cd) pyrene	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.441	<0.100
Napthalene	1,460	0.730	1.18	0.580	0.698	0.604	0.623	1.62	0.312	<0.100
Phenanthrene	--	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.136	1.67	0.533
Pyrene	1,100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.54	0.648
TOTAL PAH:	--	1.22	1.43	0.700	0.698	0.604	1.98	3.18	12.0	3.96

Notes:
 PAH = polynuclear aromatic hydrocarbons
 -- = not analyzed
 < = not detected at or above laboratory detection
 limit shown
 ppb = parts per billion

Table 2
Groundwater Analytical Data
(Polynuclear Aromatic Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
 1417 Peninsula Street
 Wrangell, Alaska

Analyte	Table C Standards	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	SEEP-1	SEEP-1
		9/23/2002	10/3/2003	8/12/2004	11/1/2001	9/23/2002	10/3/2003	8/12/2004	11/1/2001	3/27/2002
<i>Polynuclear Aromatic Hydrocarbons in ppb</i>										
1-Methylnaphthalene	--	--	--	<0.100	--	--	--	0.792	--	--
2-Methylnaphthalene	--	--	--	<0.100	--	--	--	1.26	--	--
Acenaphthene	2,200	<0.100	0.528	<0.100	<0.100	<0.100	<0.100	<0.100	0.114	0.200
Acenaphthylene	--	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Anthracene	11,000	0.151	0.642	<0.100	<0.100	<0.100	<0.100	0.283	1.38	<0.100
Benzo (a) anthracene	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	8.12	<0.100
Benzo (a) pyrene	0.2	0.358	0.566	<0.100	<0.100	<0.100	<0.100	<0.100	4.26	<0.100
Benzo (b) fluoranthene	1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	11.0	<0.100
Benzo (ghi) perylene	--	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.49	<0.100
Benzo (k) fluoranthene	10	0.491	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	3.08	<0.100
Chrysene	100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	8.33	<0.100
Dibenzo (a,h) anthracene	0.1	0.528	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.530	<0.100
Fluoranthene	1,460	0.151	<0.100	0.102	<0.100	<0.100	<0.100	<0.100	14.4	<0.100
Fluorene	1,460	0.113	<0.100	<0.100	<0.100	3.77	<0.100	<0.100	0.322	0.160
Indeno (1,2,3-cd) pyrene	1	0.453	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	2.29	<0.100
Napthalene	1,460	<0.100	0.170	<0.100	<0.100	215	4.36	1.42	<0.100	0.440
Phenanthrene	--	0.208	0.151	0.149	0.100	<0.100	<0.100	0.472	1.84	0.200
Pyrene	1,100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	14.8	<0.100
TOTAL PAH:	--	2.45	2.06	2.51	0.100	219	4.36	4.23	72.0	1.00

Notes:
 PAH = polynuclear aromatic hydrocarbons
 -- = not analyzed
 < = not detected at or above laboratory detection
 limit shown
 ppb = parts per billion

Table 2
Groundwater Analytical Data
(Polynuclear Aromatic Hydrocarbons)

Delta Western/Former Chevron Bulk Terminal #1001467
 1417 Peninsula Street
 Wrangell, Alaska

Analyte	Table C Standards	SEEP-1	SEEP-1	SEEP-1	SEEP-1	SEEP-2	SEEP-2	SEEP-2
		6/25/2002	9/23/2002	12/14/2002	10/2/2003	10/31/2001	3/27/2002	9/23/2002
<i>Polynuclear Aromatic Hydrocarbons in ppb</i>								
1-Methylnaphthalene	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--
Acenaphthene	2,200	<0.100	<0.100	<0.100	0.716	<0.100	<0.100	<0.100
Acenaphthylene	--	<0.100	0.226	<0.100	1.01	<0.100	<0.100	<0.100
Anthracene	11,000	<0.100	0.415	<0.100	3.26	<0.100	<0.100	<0.100
Benzo (a) anthracene	1	1.20	4.17	<0.100	15.1	<0.100	<0.100	<0.100
Benzo (a) pyrene	0.2	0.540	2.36	<0.100	6.40	<0.100	<0.100	0.340
Benzo (b) fluoranthene	1	0.900	3.34	<0.100	11.6	<0.100	<0.100	<0.100
Benzo (ghi) perylene	--	0.200	0.717	<0.100	2.10	<0.100	<0.100	<0.100
Benzo (k) fluoranthene	10	0.500	3.45	<0.100	6.30	<0.100	<0.100	0.491
Chrysene	100	1.02	4.40	<0.100	14.6	<0.100	<0.100	<0.100
Dibenzo (a,h) anthracene	0.1	<0.100	<0.100	<0.100	1.19	<0.100	<0.100	<0.100
Fluoranthene	1,460	2.64	7.81	<0.100	37.4	0.151	<0.100	<0.100
Fluorene	1,460	<0.100	0.245	<0.100	0.247	<0.100	<0.100	<0.100
Indeno (1,2,3-cd) pyrene	1	0.200	1.13	<0.100	2.54	<0.100	<0.100	<0.100
Napthalene	1,460	<0.100	<0.100	<0.100	0.222	0.396	<0.100	<0.100
Phenanthrene	--	<0.100	1.08	<0.100	1.11	0.189	<0.100	<0.100
Pyrene	1,100	2.30	5.89	<0.100	23.1	0.208	<0.100	<0.100
TOTAL PAH:	--	9.50	35.2	ND	127	0.944	ND	0.831

Notes:
 PAH = polynuclear aromatic hydrocarbons
 -- = not analyzed
 < = not detected at or above laboratory detection
 limit shown
 ppb = parts per billion

ATTACHEMENT E

Test America Analytical Testing Corporation Analytical Report

June 05, 2007

Andrew Ellsmore
Cambria Environmental Technology, Inc.
2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

RE: 100-1467

Enclosed are the results of analyses for samples received by the laboratory on 05/24/07 18:37.
The following list is a summary of the Work Orders contained in this report, generated on 06/05/07
10:48.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
AQE0084	100-1467	[none]

TestAmerica - Anchorage, AK

RJ

Rachel J James For Andy Goodson, LIMS Analyst

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name: 100-1467	Report Created:
	Project Number: [none]	06/05/07 10:48
	Project Manager: Andrew Ellsmore	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FOC-3-HA	AQE0084-01	Soil	05/22/07 19:30	05/24/07 18:37
FOC-3-HA-SGC	AQE0084-02	Soil	05/22/07 19:38	05/24/07 18:37
DUP-1	AQE0084-03	Soil	05/22/07 00:00	05/24/07 18:37
TRIP BLANK	AQE0084-04	Soil	05/22/07 00:00	05/24/07 18:37

TestAmerica - Anchorage, AK



Rachel J James For Andy Goodson, LIMS Analyst

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/05/07 10:48

Gasoline Range Organics (C6-C10) and BTEX per AK101
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0084-01 (FOC-3-HA)		Soil			Sampled: 05/22/07 19:30					
Gasoline Range Organics	AK101 GRO/BTEX	5.57	----	3.33	mg/kg dry	1x	7050096	05/29/07 09:22	05/29/07 22:34	
Benzene	"	ND	----	0.0166	"	"	"	"	"	"
Toluene	"	ND	----	0.0333	"	"	"	"	"	"
Ethylbenzene	"	ND	----	0.0333	"	"	"	"	"	"
Xylenes (total)	"	0.0878	----	0.0500	"	"	"	"	"	"
<i>Surrogate(s): a,a,a-TFT (FID)</i>			70.5%		50 - 150 %	"				"
<i>a,a,a-TFT (PID)</i>			51.4%		50 - 150 %	"				"

AQE0084-03 (DUP-1)		Soil			Sampled: 05/22/07 00:00					
Gasoline Range Organics	AK101 GRO/BTEX	5.45	----	3.33	mg/kg dry	1x	7050096	05/29/07 09:22	05/29/07 23:07	
Benzene	"	ND	----	0.0166	"	"	"	"	"	"
Toluene	"	ND	----	0.0333	"	"	"	"	"	"
Ethylbenzene	"	ND	----	0.0333	"	"	"	"	"	"
Xylenes (total)	"	0.0710	----	0.0500	"	"	"	"	"	"
<i>Surrogate(s): a,a,a-TFT (FID)</i>			72.7%		50 - 150 %	"				"
<i>a,a,a-TFT (PID)</i>			54.3%		50 - 150 %	"				"

AQE0084-04 (TRIP BLANK)		Soil			Sampled: 05/22/07 00:00					
Gasoline Range Organics	AK101 GRO/BTEX	ND	----	3.33	mg/kg wet	1x	7050096	05/29/07 09:22	05/30/07 02:27	
Benzene	"	ND	----	0.0166	"	"	"	"	"	"
Toluene	"	ND	----	0.0333	"	"	"	"	"	"
Ethylbenzene	"	ND	----	0.0333	"	"	"	"	"	"
Xylenes (total)	"	ND	----	0.0500	"	"	"	"	"	"
<i>Surrogate(s): a,a,a-TFT (FID)</i>			106%		50 - 150 %	"				"
<i>a,a,a-TFT (PID)</i>			82.1%		50 - 150 %	"				"

TestAmerica - Anchorage, AK

RJ

Rachel J James For Andy Goodson, LIMS Analyst

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/05/07 10:48

Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0084-01 (FOC-3-HA)		Soil			Sampled: 05/22/07 19:30					
Diesel Range Organics	AK102/103	260	----	37.7	mg/kg dry	1x	7050097	05/29/07 10:24	05/31/07 19:03	
Residual Range Organics	"	144	----	94.3	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			88.2%		50 - 150 %	"				"
<i>Triacontane</i>			86.1%		50 - 150 %	"				"
AQE0084-03 (DUP-1)		Soil			Sampled: 05/22/07 00:00					
Diesel Range Organics	AK102/103	258	----	38.4	mg/kg dry	1x	7050097	05/29/07 10:24	05/31/07 19:36	
Residual Range Organics	"	135	----	96.0	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			85.4%		50 - 150 %	"				"
<i>Triacontane</i>			82.4%		50 - 150 %	"				"

TestAmerica - Anchorage, AK

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Rachel J James For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name: 100-1467	Report Created:
	Project Number: [none]	06/05/07 10:48
	Project Manager: Andrew Ellsmore	

Diesel Range (C10-C25) and Residual Range (C25-C36) Organics per AK102/RRO w/SG Cleanup
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0084-02 (FOC-3-HA-SGC)		Soil			Sampled: 05/22/07 19:38					
Diesel Range Organics	AK102/103	167	----	80.6	mg/kg dry	2.5x	7060008	06/02/07 13:08	06/03/07 20:01	
Residual Range Organics	"	ND	----	202	"	"	"	"	"	
Surrogate(s):	<i>1-Chlorooctadecane</i>		87.1%		50 - 150 %	"				"
	<i>Triacontane</i>		56.3%		50 - 150 %	"				"

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/05/07 10:48

Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0084-01 (FOC-3-HA)		Soil			Sampled: 05/22/07 19:30					
Dry Weight	TA-SOP	61.6	----	1.00	%	1x	7050098	05/29/07 16:19	05/30/07 12:07	
AQE0084-02 (FOC-3-HA-SGC)		Soil			Sampled: 05/22/07 19:38					
Dry Weight	TA-SOP	59.6	----	1.00	%	1x	7050098	05/29/07 16:19	05/30/07 12:07	
AQE0084-03 (DUP-1)		Soil			Sampled: 05/22/07 00:00					
Dry Weight	TA-SOP	58.4	----	1.00	%	1x	7050098	05/29/07 16:19	05/30/07 12:07	

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/05/07 10:48

Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050096 **Soil Preparation Method: AK101 Field Prep**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7050096-BLK1)

Extracted: 05/29/07 09:22

Gasoline Range Organics	AK101 GRO/BTEX	ND	---	3.33	mg/kg wet	1x	--	--	--	--	--	--	05/29/07 15:39	
Benzene	"	ND	---	0.0166	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.0333	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.0333	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 111%		Limits: 50-150%	"								05/29/07 15:39	
a,a,a-TFT (PID)		88.8%		50-150%	"								"	

LCS (7050096-BS1)

Extracted: 05/29/07 09:22

Gasoline Range Organics	AK101 GRO/BTEX	21.4	---	3.33	mg/kg wet	1x	--	22.0	97.3%	(60-120)	--	--	05/29/07 14:32	
Benzene	"	0.265	---	0.0166	"	"	--	0.328	80.8%	(73.5-120)	--	--	"	
Toluene	"	1.29	---	0.0333	"	"	--	1.66	77.7%	(76.3-120)	--	--	"	
Ethylbenzene	"	0.317	---	0.0333	"	"	--	0.388	81.7%	(80-122)	--	--	"	
Xylenes (total)	"	1.77	---	0.0500	"	"	--	1.91	92.7%	(80-120)	--	--	"	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 113%		Limits: 60-120%	"								05/29/07 14:32	
a,a,a-TFT (PID)		92.1%		60-120%	"								"	

LCS Dup (7050096-BSD1)

Extracted: 05/29/07 09:22

Gasoline Range Organics	AK101 GRO/BTEX	22.4	---	3.33	mg/kg wet	1x	--	22.0	102%	(60-120)	4.57% (20)		05/29/07 15:06	
Benzene	"	0.281	---	0.0166	"	"	--	0.328	85.7%	(73.5-120)	5.86% (13)		"	
Toluene	"	1.37	---	0.0333	"	"	--	1.66	82.5%	(76.3-120)	6.02% (12.3)		"	
Ethylbenzene	"	0.335	---	0.0333	"	"	--	0.388	86.3%	(80-122)	5.52% (10.1)		"	
Xylenes (total)	"	1.84	---	0.0500	"	"	--	1.91	96.3%	(80-120)	3.88% (11.6)		"	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 118%		Limits: 60-120%	"								05/29/07 15:06	
a,a,a-TFT (PID)		95.0%		60-120%	"								"	

Duplicate (7050096-DUP1)

QC Source: AQE0076-03

Extracted: 05/29/07 09:22

Gasoline Range Organics	AK101 GRO/BTEX	ND	---	2.74	mg/kg dry	3x	ND	--	--	--	3.99% (35.8)		05/29/07 19:14	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 88.4%		Limits: 50-150%	"								05/29/07 19:14	

Matrix Spike (7050096-MS1)

QC Source: AQE0076-03

Extracted: 05/29/07 09:22

Benzene	AK101 GRO/BTEX	0.610	---	0.0137	mg/kg dry	3x	0.00141	0.693	87.8%	(80-125)	--	--	05/29/07 19:47	
Toluene	"	0.588	---	0.0274	"	"	0.00434	0.663	88.0%	(80-130)	--	--	"	
Ethylbenzene	"	0.565	---	0.0274	"	"	0.00316	0.666	84.4%	(80-138)	--	--	"	
Xylenes (total)	"	1.90	---	0.0411	"	"	0.00854	2.00	94.6%	(80-141)	--	--	"	
Surrogate(s): a,a,a-TFT (PID)		Recovery: 71.6%		Limits: 50-150%	"								05/29/07 19:47	

TestAmerica - Anchorage, AK

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Rachel J James For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name: 100-1467	Report Created:
	Project Number: [none]	06/05/07 10:48
	Project Manager: Andrew Ellsmore	

Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050096 Soil Preparation Method: AK101 Field Prep

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (7050096-MSD1)			QC Source: AQE0076-03				Extracted: 05/29/07 09:22							
Benzene	AK101 GRO/BTEX	0.615	---	0.0137	mg/kg dry	3x	0.00141	0.693	88.5%	(80-125)	0.816% (18.4)		05/29/07 20:21	
Toluene	"	0.595	---	0.0274	"	"	0.00434	0.663	89.1%	(80-130)	1.18% (18)		"	
Ethylbenzene	"	0.562	---	0.0274	"	"	0.00316	0.666	83.9%	(80-138)	0.532% (15.3)		"	
Xylenes (total)	"	1.90	---	0.0411	"	"	0.00854	2.00	94.6%	(80-141)	0.00% (14.2)		"	
<i>Surrogate(s): a,a,a-TFT (PID)</i>		<i>Recovery: 69.4%</i>		<i>Limits: 50-150%</i>		"							<i>05/29/07 20:21</i>	

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/05/07 10:48

Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050097 Soil Preparation Method: EPA 3545

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7050097-BLK1)

Extracted: 05/29/07 10:24

Diesel Range Organics	AK102/103	ND	---	20.0	mg/kg wet	1x	--	--	--	--	--	--	05/30/07 09:03	
Residual Range Organics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>05/30/07 09:03</i>	
<i> Triacontane</i>		<i> 82.4%</i>											<i>"</i>	
										<i>Limits: 50-150%</i>				
										<i>50-150%</i>				

LCS (7050097-BS1)

Extracted: 05/29/07 10:24

Diesel Range Organics	AK102/103	131	---	20.0	mg/kg wet	1x	--	129	102%	(75-125)	--	--	05/30/07 09:36	
Residual Range Organics	"	129	---	50.0	"	"	--	"	100%	(60-120)	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>05/30/07 09:36</i>	
<i> Triacontane</i>		<i> 98.5%</i>											<i>"</i>	
										<i>Limits: 60-120%</i>				
										<i>60-120%</i>				

LCS Dup (7050097-BSD1)

Extracted: 05/29/07 10:24

Diesel Range Organics	AK102/103	135	---	20.0	mg/kg wet	1x	--	129	105%	(75-125)	3.01%	(20)	05/30/07 10:08	
Residual Range Organics	"	132	---	50.0	"	"	--	"	102%	(60-120)	2.30%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>05/30/07 10:08</i>	
<i> Triacontane</i>		<i> 99.3%</i>											<i>"</i>	
										<i>Limits: 60-120%</i>				
										<i>60-120%</i>				

Duplicate (7050097-DUP1)

QC Source: AQE0076-01

Extracted: 05/29/07 10:24

Diesel Range Organics	AK102/103	ND	---	20.0	mg/kg dry	1x	ND	--	--	--	9.36%	(20)	05/30/07 09:03	
Residual Range Organics	"	ND	---	50.0	"	"	ND	--	--	--	15.1%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>05/30/07 09:03</i>	
<i> Triacontane</i>		<i> 85.3%</i>											<i>"</i>	
										<i>Limits: 50-150%</i>				
										<i>50-150%</i>				

Matrix Spike (7050097-MS1)

QC Source: AQE0076-01

Extracted: 05/29/07 10:24

Diesel Range Organics	AK102/103	120	---	20.0	mg/kg dry	1x	4.14	130	89.1%	(75-125)	--	--	05/30/07 10:08	
Residual Range Organics	"	117	---	50.0	"	"	4.42	"	86.6%	(60-150)	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>05/30/07 10:08</i>	
<i> Triacontane</i>		<i> 89.7%</i>											<i>"</i>	
										<i>Limits: 50-150%</i>				
										<i>50-150%</i>				

Matrix Spike Dup (7050097-MSD1)

QC Source: AQE0076-01

Extracted: 05/29/07 10:24

Diesel Range Organics	AK102/103	120	---	20.0	mg/kg dry	1x	4.14	129	89.8%	(75-125)	0.00%	(25)	05/30/07 10:41	
Residual Range Organics	"	120	---	50.0	"	"	4.42	"	89.6%	(60-150)	2.53%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>05/30/07 10:41</i>	
<i> Triacontane</i>		<i> 91.1%</i>											<i>"</i>	
										<i>Limits: 50-150%</i>				
										<i>50-150%</i>				

TestAmerica - Anchorage, AK

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/05/07 10:48

Diesel Range (C10-C25) and Residual Range (C25-C36) Organics per AK102/RRO w/SG Cleanup - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7060008 **Soil Preparation Method: EPA 3545**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7060008-BLK1)

Extracted: 06/02/07 13:08

Diesel Range Organics	AK102/103	ND	---	50.0	mg/kg wet	2.5x	--	--	--	--	--	--	06/03/07 18:22	
Residual Range Organics	"	ND	---	125	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>06/03/07 18:22</i>	
<i> Triacontane</i>		<i> 48.0%</i>											<i>"</i>	<i>Z6</i>
				<i>Limits: 50-150%</i>		<i>"</i>								
				<i>50-150%</i>		<i>"</i>								

LCS (7060008-BS1)

Extracted: 06/02/07 13:08

Diesel Range Organics	AK102/103	125	---	50.0	mg/kg wet	2.5x	--	129	96.9%	(75-125)	--	--	06/03/07 18:55	
Residual Range Organics	"	118	---	125	"	"	--	"	91.5%	(60-120)	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>06/03/07 18:55</i>	
<i> Triacontane</i>		<i> 97.0%</i>											<i>"</i>	
				<i>Limits: 60-120%</i>		<i>"</i>								
				<i>60-120%</i>		<i>"</i>								

LCS Dup (7060008-BSD1)

Extracted: 06/02/07 13:08

Diesel Range Organics	AK102/103	124	---	50.0	mg/kg wet	2.5x	--	129	96.1%	(75-125)	0.803% (20)	--	06/03/07 19:28	
Residual Range Organics	"	115	---	125	"	"	--	"	89.1%	(60-120)	2.58%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>06/03/07 19:28</i>	
<i> Triacontane</i>		<i> 94.1%</i>											<i>"</i>	
				<i>Limits: 60-120%</i>		<i>"</i>								
				<i>60-120%</i>		<i>"</i>								

Duplicate (7060008-DUP1)

QC Source: AQE0076-01

Extracted: 06/02/07 13:08

Diesel Range Organics	AK102/103	ND	---	50.0	mg/kg dry	2.5x	ND	--	--	--	NR (20)	--	06/03/07 18:22	RL7
Residual Range Organics	"	ND	---	125	"	"	ND	--	--	--	NR	"	"	RL7
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>06/03/07 18:22</i>	
<i> Triacontane</i>		<i> 83.8%</i>											<i>"</i>	
				<i>Limits: 50-150%</i>		<i>"</i>								
				<i>50-150%</i>		<i>"</i>								

Matrix Spike (7060008-MS1)

QC Source: AQE0076-01

Extracted: 06/02/07 13:08

Diesel Range Organics	AK102/103	122	---	50.0	mg/kg dry	2.5x	ND	130	93.8%	(75-125)	--	--	06/03/07 19:28	RL7
Residual Range Organics	"	123	---	125	"	"	ND	"	94.6%	(60-150)	--	--	"	RL7
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>06/03/07 19:28</i>	
<i> Triacontane</i>		<i> 86.8%</i>											<i>"</i>	
				<i>Limits: 50-150%</i>		<i>"</i>								
				<i>50-150%</i>		<i>"</i>								

Matrix Spike Dup (7060008-MSD1)

QC Source: AQE0076-01

Extracted: 06/02/07 13:08

Diesel Range Organics	AK102/103	123	---	50.0	mg/kg dry	2.5x	ND	129	95.3%	(75-125)	0.816% (25)	--	06/03/07 20:01	RL7
Residual Range Organics	"	124	---	125	"	"	ND	"	96.1%	(60-150)	0.810%	"	"	RL7
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery:</i>											<i>06/03/07 20:01</i>	
<i> Triacontane</i>		<i> 89.6%</i>											<i>"</i>	
				<i>Limits: 50-150%</i>		<i>"</i>								
				<i>50-150%</i>		<i>"</i>								

TestAmerica - Anchorage, AK

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Rachel J James For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name:	100-1467	Report Created:
	Project Number:	[none]	06/05/07 10:48
	Project Manager:	Andrew Ellsmore	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050098 Soil Preparation Method: * DEFAULT PREP**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (7050098-DUP1)			QC Source: AQE0076-01				Extracted: 05/29/07 16:19							
Dry Weight	TA-SOP	96.8	---	1.00	%	1x	96.9	--	--	--	0.103% (25)		05/30/07 12:07	

TestAmerica - Anchorage, AK

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

Project Name: **100-1467**
Project Number: [none]
Project Manager: Andrew Ellsmore

Report Created:
06/05/07 10:48

Notes and Definitions

Report Specific Notes:

- RL7 - Sample required dilution due to high concentrations of target analyte.
- Z6 - Surrogate recovery was below acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Anchorage, AK

Rachel J James For Andy Goodson, LIMS Analyst

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CHAIN OF CUSTODY REPORT

Work Order #: **AQE0084**

CLIENT: Chevron		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD.			
REPORT TO: Conestoga - Rovers + Associates		P.O. NUMBER:					
ADDRESS: 2828 North Speer Blvd., Suite 140				OTHER Specify: _____ * Turnaround Request less than standard may incur Rush Charges.			
PHONE: 303-433-3912 FAX: 303-433-3974							
PROJECT NAME: 100-1467		PRESERVATIVE		MATRIX (W, S, O) # OF CONT. LOCATION / COMMENTS TA WO ID			
PROJECT NUMBER:		MeOH MeOH					
SAMPLED BY: NGEP		REQUESTED ANALYSES		SOIL 4 SOIL 2 *Silicone Gel Cleanup SOIL 4 WATER 1			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	GRO (AK10)	BTEX (802)				
1 FOC-3-HA	05/22/07 // 1930	X	X	X	X		
2 FOC-3-HA-S6C	05/22/07 // 1938			X	X		
3 Dup-1	05/22/07	X	X	X	X		
4 Trip Blank	—	X	X				
5							
6							
7							
8							
9							
10							
RELEASED BY: Nicholas Greco	FIRM: CRA	DATE: 05/23/07	TIME: 0900	RECEIVED BY: Troy Engstrom	FIRM: TA-AK	DATE: 5-23-07	TIME: 18:37
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:
PRINT NAME:				PRINT NAME:			
ADDITIONAL REMARKS:							
COC REV 09/2004						TEMP: 3.2	PAGE 1 OF 1

Test America Cooler Receipt Form

(Army Corps Compliant)

WORK ORDER # AR50084

CLIENT: Cooking/Chow

PROJECT: At Site

100-11

Date /Time Cooler Arrived 5 / 23 / 27 18 : 33 Cooler signed for by: David Houston

(Print name)

Preliminary Examination Phase:

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

Cooler opened by (print) Trey Engstrom (sign) Trey Engstrom

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

Shipment Tracking # if applicable 3956 6520 (include copy of shipping papers in file)

2. Number of Custody Seals 2 Signed by See back Date 5 / 23 / 27

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 place? Yes No

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

Temperature by Digi-Thermo Probe 3.2 °C Thermometer # Rec #3

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

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

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

Log-in Phase:

Date of sample log-in 5 / 24 / 07

Samples logged in by (print) Sen M'Lean (sign) Sen M'Lean

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

ADDRESS

CUSTODY SEAL

Date 5/23/07

Signature [Signature]

TestAmerica
ANALYTICAL TESTING CORPORATION

TestAmerica
ANALYTICAL TESTING CORPORATION

CUSTODY SEAL
Date 5/23/07
Signature [Signature]

June 06, 2007

Andrew Ellsmore
Cambria Environmental Technology, Inc.
2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

RE: 100-1467

Enclosed are the results of analyses for samples received by the laboratory on 05/23/07 18:45.
The following list is a summary of the Work Orders contained in this report, generated on 06/06/07
16:47.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
AQE0085	100-1467	[none]

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name:	100-1467	Report Created:
	Project Number:	[none]	06/06/07 16:47
	Project Manager:	Andrew Ellsmore	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	AQE0085-01	Water	05/22/07 14:30	05/23/07 18:45
MW-4	AQE0085-02	Water	05/22/07 12:45	05/23/07 18:45
MW-5	AQE0085-03	Water	05/22/07 13:45	05/23/07 18:45
MW-6	AQE0085-04	Water	05/22/07 15:30	05/23/07 18:45
DUP-1	AQE0085-05	Water	05/22/07 00:00	05/23/07 18:45
SEEP-1	AQE0085-06	Water	05/22/07 10:45	05/23/07 18:45
TRIP BLANK	AQE0085-07	Water	05/22/07 00:00	05/23/07 18:45

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

Project Name: **100-1467**
Project Number: [none]
Project Manager: Andrew Ellsmore

Report Created:
06/06/07 16:47

Gasoline Range Organics (C6-C10) and BTEX per AK101

TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-01 (MW-2)		Water			Sampled: 05/22/07 14:30					
Gasoline Range Organics	AK101 GRO/BTEX	ND	----	50.0	ug/l	1x	7050095	05/30/07 08:42	05/31/07 21:54	
Benzene	"	0.566	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>				102%	50 - 150 %	"				"
<i>a,a,a-TFT (PID)</i>				78.9%	50 - 150 %	"				"
AQE0085-02 (MW-4)		Water			Sampled: 05/22/07 12:45					
Gasoline Range Organics	AK101 GRO/BTEX	ND	----	50.0	ug/l	1x	7050095	05/30/07 08:42	05/31/07 22:28	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>				103%	50 - 150 %	"				"
<i>a,a,a-TFT (PID)</i>				80.5%	50 - 150 %	"				"
AQE0085-03 (MW-5)		Water			Sampled: 05/22/07 13:45					
Gasoline Range Organics	AK101 GRO/BTEX	ND	----	50.0	ug/l	1x	7050095	05/30/07 08:42	05/31/07 23:01	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>				105%	50 - 150 %	"				"
<i>a,a,a-TFT (PID)</i>				82.3%	50 - 150 %	"				"
AQE0085-06 (SEEP-1)		Water			Sampled: 05/22/07 10:45					
Gasoline Range Organics	AK101 GRO/BTEX	ND	----	50.0	ug/l	1x	7050095	05/30/07 08:42	06/01/07 02:55	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>				103%	50 - 150 %	"				"
<i>a,a,a-TFT (PID)</i>				80.3%	50 - 150 %	"				"

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name: 100-1467	Report Created:
	Project Number: [none]	06/06/07 16:47
	Project Manager: Andrew Ellsmore	

Gasoline Range Organics (C6-C10) and BTEX per AK101
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-07 (TRIP BLANK)		Water			Sampled: 05/22/07 00:00					
Gasoline Range Organics	AK101 GRO/BTEX	ND	----	50.0	ug/l	1x	7050095	05/30/07 08:42	05/31/07 18:31	
Benzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	ND	----	0.500	"	"	"	"	"	"
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>a,a,a-TFT (FID)</i>			<i>102%</i>	<i>50 - 150 %</i>	<i>"</i>				<i>"</i>
	<i>a,a,a-TFT (PID)</i>			<i>80.5%</i>	<i>50 - 150 %</i>	<i>"</i>				<i>"</i>

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name: 100-1467	Report Created:
	Project Number: [none]	06/06/07 16:47
	Project Manager: Andrew Ellsmore	

Gasoline Range Organics (C6-C10) per AK101
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-04 (MW-6)		Water			Sampled: 05/22/07 15:30					
Gasoline Range Organics	AK101 GRO	689	----	50.0	ug/l	1x	7050095	05/30/07 08:42	05/31/07 23:35	
<i>Surrogate(s): a,a,a-TFT (FID)</i>			102%		50 - 150 %	"				"
AQE0085-05 (DUP-1)		Water			Sampled: 05/22/07 00:00					
Gasoline Range Organics	AK101 GRO	587	----	50.0	ug/l	1x	7050095	05/30/07 08:42	06/01/07 02:22	
<i>Surrogate(s): a,a,a-TFT (FID)</i>			103%		50 - 150 %	"				"

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-01 (MW-2)		Water			Sampled: 05/22/07 14:30					
Diesel Range Organics	AK102/103	ND	----	0.391	mg/l	1x	7050102	05/30/07 13:30	05/31/07 18:30	
Residual Range Organics	"	ND	----	0.391	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			91.8%		50 - 150 %	"				"
<i>Triacontane</i>			88.7%		50 - 150 %	"				"
AQE0085-02 (MW-4)		Water			Sampled: 05/22/07 12:45					
Diesel Range Organics	AK102/103	ND	----	0.391	mg/l	1x	7050102	05/30/07 13:30	05/31/07 18:30	
Residual Range Organics	"	ND	----	0.391	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			82.3%		50 - 150 %	"				"
<i>Triacontane</i>			80.7%		50 - 150 %	"				"
AQE0085-03 (MW-5)		Water			Sampled: 05/22/07 13:45					
Diesel Range Organics	AK102/103	ND	----	0.391	mg/l	1x	7050102	05/30/07 13:30	05/31/07 19:03	
Residual Range Organics	"	ND	----	0.391	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			92.9%		50 - 150 %	"				"
<i>Triacontane</i>			90.7%		50 - 150 %	"				"
AQE0085-04 (MW-6)		Water			Sampled: 05/22/07 15:30					
Diesel Range Organics	AK102/103	1.11	----	0.397	mg/l	1x	7050110	05/31/07 11:12	06/01/07 01:36	
Residual Range Organics	"	0.447	----	0.397	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			87.2%		50 - 150 %	"				"
<i>Triacontane</i>			84.3%		50 - 150 %	"				"
AQE0085-05 (DUP-1)		Water			Sampled: 05/22/07 00:00					
Diesel Range Organics	AK102/103	1.33	----	0.391	mg/l	1x	7050110	05/31/07 11:12	06/01/07 02:09	
Residual Range Organics	"	0.467	----	0.391	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			88.3%		50 - 150 %	"				"
<i>Triacontane</i>			85.2%		50 - 150 %	"				"

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-04 (MW-6)		Water			Sampled: 05/22/07 15:30					
Acetone	EPA 8260B	ND	----	50.0	ug/l	2x	7051407	05/30/07 08:16	05/30/07 13:37	
Benzene	"	ND	----	2.00	"	"	"	"	"	
Bromobenzene	"	ND	----	2.00	"	"	"	"	"	
Bromochloromethane	"	ND	----	2.00	"	"	"	"	"	
Bromodichloromethane	"	ND	----	2.00	"	"	"	"	"	
Bromoform	"	ND	----	2.00	"	"	"	"	"	
Bromomethane	"	ND	----	10.0	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	20.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	10.0	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	2.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	2.00	"	"	"	"	"	
Carbon disulfide	"	ND	----	20.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	2.00	"	"	"	"	"	
Chlorobenzene	"	ND	----	2.00	"	"	"	"	"	
Chloroethane	"	ND	----	2.00	"	"	"	"	"	
Chloroform	"	ND	----	2.00	"	"	"	"	"	
Chloromethane	"	ND	----	10.0	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	2.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	2.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	10.0	"	"	"	"	"	
Dibromochloromethane	"	ND	----	2.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	2.00	"	"	"	"	"	
Dibromomethane	"	ND	----	2.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	10.0	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	2.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	2.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	2.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	2.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	2.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	2.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	2.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	2.00	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	8.00	"	"	"	"	"	
2-Hexanone	"	ND	----	20.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	4.00	"	"	"	"	"	
p-Isopropyltoluene	"	4.94	----	4.00	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-04 (MW-6)		Water				Sampled: 05/22/07 15:30				
4-Methyl-2-pentanone	EPA 8260B	ND	----	10.0	ug/l	2x	7051407	05/30/07 08:16	05/30/07 13:37	
Methyl tert-butyl ether	"	ND	----	2.00	"	"	"	"	"	
Methylene chloride	"	ND	----	10.0	"	"	"	"	"	
Naphthalene	"	ND	----	4.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	2.00	"	"	"	"	"	
Styrene	"	ND	----	2.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	2.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	2.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	2.00	"	"	"	"	"	
Toluene	"	203	----	2.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	2.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	2.00	"	"	"	"	"	
Trichloroethene	"	ND	----	2.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	2.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	2.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	2.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	2.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	2.00	"	"	"	"	"	
o-Xylene	"	ND	----	2.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	4.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB</i>			<i>102%</i>		<i>80 - 120 %</i>	<i>1x</i>				<i>"</i>
<i>1,2-DCA-d4</i>			<i>102%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Dibromofluoromethane</i>			<i>102%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>98.0%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>

AQE0085-05 (DUP-1)		Water				Sampled: 05/22/07 00:00				
Acetone	EPA 8260B	ND	----	50.0	ug/l	2x	7051407	05/30/07 08:16	05/30/07 14:04	
Benzene	"	ND	----	2.00	"	"	"	"	"	
Bromobenzene	"	ND	----	2.00	"	"	"	"	"	
Bromochloromethane	"	ND	----	2.00	"	"	"	"	"	
Bromodichloromethane	"	ND	----	2.00	"	"	"	"	"	
Bromoform	"	ND	----	2.00	"	"	"	"	"	
Bromomethane	"	ND	----	10.0	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	20.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	10.0	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	2.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	2.00	"	"	"	"	"	
Carbon disulfide	"	ND	----	20.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	2.00	"	"	"	"	"	
Chlorobenzene	"	ND	----	2.00	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-05 (DUP-1)		Water				Sampled: 05/22/07 00:00				
Chloroethane	EPA 8260B	ND	----	2.00	ug/l	2x	7051407	05/30/07 08:16	05/30/07 14:04	
Chloroform	"	ND	----	2.00	"	"	"	"	"	
Chloromethane	"	ND	----	10.0	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	2.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	2.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	10.0	"	"	"	"	"	
Dibromochloromethane	"	ND	----	2.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	2.00	"	"	"	"	"	
Dibromomethane	"	ND	----	2.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	10.0	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	2.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	2.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	2.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	2.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	2.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	2.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	2.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	2.00	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	8.00	"	"	"	"	"	
2-Hexanone	"	ND	----	20.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	4.00	"	"	"	"	"	
p-Isopropyltoluene	"	5.70	----	4.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	10.0	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	2.00	"	"	"	"	"	
Methylene chloride	"	ND	----	10.0	"	"	"	"	"	
Naphthalene	"	ND	----	4.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	2.00	"	"	"	"	"	
Styrene	"	ND	----	2.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	2.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	2.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	2.00	"	"	"	"	"	
Toluene	"	228	----	2.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	2.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	2.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	2.00	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
 Denver, CO/USA 80211

Project Name: **100-1467**
 Project Number: [none]
 Project Manager: Andrew Ellsmore

Report Created:
 06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-05 (DUP-1)		Water		Sampled: 05/22/07 00:00						
Trichloroethene	EPA 8260B	ND	----	2.00	ug/l	2x	7051407	05/30/07 08:16	05/30/07 14:04	
Trichlorofluoromethane	"	ND	----	2.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	2.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	2.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	2.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	2.00	"	"	"	"	"	
o-Xylene	"	ND	----	2.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	4.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB</i>			<i>105%</i>		<i>80 - 120 %</i>	<i>1x</i>				<i>"</i>
<i>1,2-DCA-d4</i>			<i>106%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Dibromofluoromethane</i>			<i>106%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>102%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
AQE0085-07 (TRIP BLANK)		Water		Sampled: 05/22/07 00:00						
Acetone	EPA 8260B	ND	----	25.0	ug/l	1x	7051407	05/30/07 08:16	05/30/07 10:55	
Benzene	"	ND	----	1.00	"	"	"	"	"	
Bromobenzene	"	ND	----	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromoform	"	ND	----	1.00	"	"	"	"	"	
Bromomethane	"	ND	----	5.00	"	"	"	"	"	
2-Butanone (MEK)	"	ND	----	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	----	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	1.00	"	"	"	"	"	
Chloromethane	"	ND	----	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

Project Name: **100-1467**
Project Number: [none]
Project Manager: Andrew Ellsmore

Report Created:
06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0085-07 (TRIP BLANK)		Water		Sampled: 05/22/07 00:00						
1,2-Dichloroethane	EPA 8260B	ND	----	1.00	ug/l	1x	7051407	05/30/07 08:16	05/30/07 10:55	
1,1-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB</i>				106%		80 - 120 %	"			"
<i>1,2-DCA-d4</i>				108%		80 - 120 %	"			"
<i>Dibromofluoromethane</i>				110%		80 - 120 %	"			"
<i>Toluene-d8</i>				106%		80 - 120 %	"			"

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050095 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7050095-BLK1) Extracted: 05/30/07 08:42

Gasoline Range Organics	AK101 GRO/BTEX	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	05/30/07 10:49	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 107%	Limits: 50-150%		"		05/30/07 10:49							
a,a,a-TFT (PID)		86.4%	50-150%		"		"							

LCS (7050095-BS1) Extracted: 05/30/07 08:42

Benzene	AK101 GRO/BTEX	18.6	---	0.500	ug/l	1x	--	20.6	90.3%	(80-120)	--	--	05/30/07 09:42	
Toluene	"	18.1	---	0.500	"	"	--	19.7	91.9%	"	--	--	"	
Ethylbenzene	"	17.3	---	0.500	"	"	--	19.8	87.4%	(80-126)	--	--	"	
Xylenes (total)	"	57.7	---	1.50	"	"	--	59.6	96.8%	(80-127)	--	--	"	
Surrogate(s): a,a,a-TFT (PID)		Recovery: 91.1%	Limits: 60-120%		"		05/30/07 09:42							

LCS (7050095-BS2) Extracted: 05/30/07 08:42

Gasoline Range Organics	AK101 GRO/BTEX	617	---	50.0	ug/l	1x	--	550	112%	(60-120)	--	--	05/30/07 10:15	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 113%	Limits: 60-120%		"		05/30/07 10:15							

LCS Dup (7050095-BSD1) Extracted: 05/30/07 08:42

Benzene	AK101 GRO/BTEX	18.4	---	0.500	ug/l	1x	--	20.6	89.3%	(80-120)	1.08% (13.8)		05/30/07 18:14	
Toluene	"	18.4	---	0.500	"	"	--	19.7	93.4%	"	1.64% (10.4)		"	
Ethylbenzene	"	17.7	---	0.500	"	"	--	19.8	89.4%	(80-126)	2.29% (11.8)		"	
Xylenes (total)	"	59.2	---	1.50	"	"	--	59.6	99.3%	(80-127)	2.57% (11.2)		"	
Surrogate(s): a,a,a-TFT (PID)		Recovery: 91.6%	Limits: 60-120%		"		05/30/07 18:14							

LCS Dup (7050095-BSD2) Extracted: 05/30/07 08:42

Gasoline Range Organics	AK101 GRO/BTEX	624	---	50.0	ug/l	1x	--	550	113%	(60-120)	1.13% (20)		05/30/07 17:40	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 114%	Limits: 60-120%		"		05/30/07 17:40							

Duplicate (7050095-DUP1) QC Source: AQE0082-08 Extracted: 05/30/07 08:42

Gasoline Range Organics	AK101 GRO/BTEX	ND	---	50.0	ug/l	1x	ND	--	--	--	33.3% (35)		05/30/07 23:18	
Surrogate(s): a,a,a-TFT (PID)		Recovery: 102%	Limits: 50-150%		"		05/30/07 23:18							

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050095 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Matrix Spike (7050095-MS1)

QC Source: AQE0082-02

Extracted: 05/30/07 08:42

Benzene	AK101 GRO/BTEX	17.9	---	0.500	ug/l	1x	ND	20.6	86.9%	(69-124)	--	--	05/30/07 23:52	
Toluene	"	17.4	---	0.500	"	"	0.0640	19.7	88.0%	(80-126)	--	--	"	
Ethylbenzene	"	16.4	---	0.500	"	"	ND	19.8	82.8%	(77.3-143)	--	--	"	
Xylenes (total)	"	54.2	---	1.50	"	"	ND	59.6	90.9%	(67.5-140)	--	--	"	

Surrogate(s): a,a,a-TFT (PID) Recovery: 83.6% Limits: 50-150% " 05/30/07 23:52

Matrix Spike Dup (7050095-MSD1)

QC Source: AQE0082-02

Extracted: 05/30/07 08:42

Benzene	AK101 GRO/BTEX	17.3	---	0.500	ug/l	1x	ND	20.6	84.0%	(69-124)	3.41% (10)		05/31/07 02:05	
Toluene	"	16.9	---	0.500	"	"	0.0640	19.7	85.5%	(80-126)	2.92%	"	"	
Ethylbenzene	"	16.0	---	0.500	"	"	ND	19.8	80.8%	(77.3-143)	2.47%	"	"	
Xylenes (total)	"	53.6	---	1.50	"	"	ND	59.6	89.9%	(67.5-140)	1.11%	"	"	

Surrogate(s): a,a,a-TFT (PID) Recovery: 80.6% Limits: 50-150% " 05/31/07 02:05

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Gasoline Range Organics (C6-C10) per AK101 - Laboratory Quality Control Results
TestAmerica - Anchorage, AK

QC Batch: 7050095 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050095-BLK1)							Extracted: 05/30/07 08:42							
Gasoline Range Organics	AK101 GRO	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	05/30/07 10:49	
<i>Surrogate(s): a,a,a-TFT (FID)</i>		<i>Recovery: 107%</i>		<i>Limits: 50-150%</i>	<i>"</i>								<i>05/30/07 10:49</i>	
LCS (7050095-BS2)							Extracted: 05/30/07 08:42							
Gasoline Range Organics	AK101 GRO	617	---	50.0	ug/l	1x	--	550	112%	(60-120)	--	--	05/30/07 10:15	
<i>Surrogate(s): a,a,a-TFT (FID)</i>		<i>Recovery: 113%</i>		<i>Limits: 60-120%</i>	<i>"</i>								<i>05/30/07 10:15</i>	
LCS Dup (7050095-BSD2)							Extracted: 05/30/07 08:42							
Gasoline Range Organics	AK101 GRO	624	---	50.0	ug/l	1x	--	550	113%	(60-120)	1.13%	(20)	05/30/07 17:40	
<i>Surrogate(s): a,a,a-TFT (FID)</i>		<i>Recovery: 114%</i>		<i>Limits: 60-120%</i>	<i>"</i>								<i>05/30/07 17:40</i>	
Duplicate (7050095-DUP1)				QC Source: AQE0082-08				Extracted: 05/30/07 08:42						
Gasoline Range Organics	AK101 GRO	ND	---	50.0	ug/l	1x	ND	--	--	--	33.3%	(35)	05/30/07 23:18	
<i>Surrogate(s): a,a,a-TFT (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 50-150%</i>	<i>"</i>								<i>05/30/07 23:18</i>	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050102 Water Preparation Method: EPA 3510

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7050102-BLK1) Extracted: 05/30/07 13:30

Diesel Range Organics	AK102/103	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	05/30/07 17:26	
Residual Range Organics	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 102%</i>		<i>Limits: 50-150%</i>		<i>"</i>						<i>05/30/07 17:26</i>		
<i>Triacontane</i>		<i>95.2%</i>		<i>50-150%</i>		<i>"</i>						<i>"</i>		

LCS (7050102-BS1) Extracted: 05/30/07 13:30

Diesel Range Organics	AK102/103	11.1	---	0.500	mg/l	1x	--	10.3	108%	(75-125)	--	--	05/30/07 17:58	
Residual Range Organics	"	10.8	---	0.500	"	"	--	"	105%	(60-120)	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 111%</i>		<i>Limits: 60-120%</i>		<i>"</i>						<i>05/30/07 17:58</i>		
<i>Triacontane</i>		<i>103%</i>		<i>60-120%</i>		<i>"</i>						<i>"</i>		

LCS Dup (7050102-BSD1) Extracted: 05/30/07 13:30

Diesel Range Organics	AK102/103	10.1	---	0.500	mg/l	1x	--	10.3	98.1%	(75-125)	9.43% (20)		05/30/07 18:30	
Residual Range Organics	"	9.81	---	0.500	"	"	--	"	95.2%	(60-120)	9.61%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 99.1%</i>		<i>Limits: 60-120%</i>		<i>"</i>						<i>05/30/07 18:30</i>		
<i>Triacontane</i>		<i>92.2%</i>		<i>60-120%</i>		<i>"</i>						<i>"</i>		

Duplicate (7050102-DUP1) QC Source: AQE0073-01 Extracted: 05/30/07 13:30

Diesel Range Organics	AK102/103	8.18	---	0.391	mg/l	1x	14.3	--	--	--	54.4% (20)		05/30/07 17:58	R2
Residual Range Organics	"	ND	---	0.391	"	"	ND	--	--	--	22.0%	"	"	R2
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 92.5%</i>		<i>Limits: 50-150%</i>		<i>"</i>						<i>05/30/07 17:58</i>		
<i>Triacontane</i>		<i>90.4%</i>		<i>50-150%</i>		<i>"</i>						<i>"</i>		

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO - Laboratory Quality Control Results
 TestAmerica - Anchorage, AK

QC Batch: 7050110 Water Preparation Method: EPA 3510

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050110-BLK1)										Extracted: 05/31/07 11:12				
Diesel Range Organics	AK102/103	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	06/01/07 01:03	
Residual Range Organics	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 100%</i>		<i>Limits: 50-150%</i>		<i>"</i>						<i>06/01/07 01:03</i>		
<i>Triacontane</i>		<i>98.1%</i>		<i>50-150%</i>		<i>"</i>						<i>"</i>		
LCS (7050110-BS1)										Extracted: 05/31/07 11:12				
Diesel Range Organics	AK102/103	11.1	---	0.500	mg/l	1x	--	10.3	108%	(75-125)	--	--	06/01/07 01:36	
Residual Range Organics	"	11.1	---	0.500	"	"	--	"	108%	(60-120)	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 111%</i>		<i>Limits: 60-120%</i>		<i>"</i>						<i>06/01/07 01:36</i>		
<i>Triacontane</i>		<i>103%</i>		<i>60-120%</i>		<i>"</i>						<i>"</i>		
LCS Dup (7050110-BSD1)										Extracted: 05/31/07 11:12				
Diesel Range Organics	AK102/103	11.2	---	0.500	mg/l	1x	--	10.3	109%	(75-125)	0.897% (20)		06/01/07 02:09	
Residual Range Organics	"	11.3	---	0.500	"	"	--	"	110%	(60-120)	1.79%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 112%</i>		<i>Limits: 60-120%</i>		<i>"</i>						<i>06/01/07 02:09</i>		
<i>Triacontane</i>		<i>104%</i>		<i>60-120%</i>		<i>"</i>						<i>"</i>		
Duplicate (7050110-DUP1)										QC Source: AQE0085-04 Extracted: 05/31/07 11:12				
Diesel Range Organics	AK102/103	1.75	---	0.397	mg/l	1x	1.11	--	--	--	44.8% (20)		06/01/07 01:03	R2
Residual Range Organics	"	1.02	---	0.397	"	"	0.447	--	--	--	78.1%	"	"	R2
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 89.0%</i>		<i>Limits: 50-150%</i>		<i>"</i>						<i>06/01/07 01:03</i>		
<i>Triacontane</i>		<i>85.7%</i>		<i>50-150%</i>		<i>"</i>						<i>"</i>		

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7051407 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7051407-BLK1)										Extracted: 05/30/07 08:16				
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	--	--	--	--	--	--	05/30/07 10:28	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

TestAmerica - Anchorage, AK



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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7051407 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7051407-BLK1)

Extracted: 05/30/07 08:16

Hexachlorobutadiene	EPA 8260B	ND	---	4.00	ug/l	1x	--	--	--	--	--	--	05/30/07 10:28	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>4-BFB</i>	<i>Recovery:</i>	<i>98.0%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>	<i>05/30/07 10:28</i>
	<i>1,2-DCA-d4</i>		<i>102%</i>		<i>80-120%</i>	<i>"</i>	<i>"</i>
	<i>Dibromofluoromethane</i>		<i>104%</i>		<i>80-120%</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>	<i>"</i>	<i>"</i>

TestAmerica - Anchorage, AK



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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/06/07 16:47

Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7051407 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7051407-BS1)													Extracted: 05/30/07 08:16	
Benzene	EPA 8260B	20.2	---	1.00	ug/l	1x	--	20.0	101%	(80-120)	--	--	05/30/07 08:40	
Chlorobenzene	"	20.7	---	1.00	"	"	--	"	104%	(80-124)	--	--	"	
1,1-Dichloroethene	"	18.8	---	1.00	"	"	--	"	94.0%	(78-120)	--	--	"	
Toluene	"	20.4	---	1.00	"	"	--	"	102%	(80-124)	--	--	"	
Trichloroethene	"	20.0	---	1.00	"	"	--	"	100%	(80-132)	--	--	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery:</i>	<i>98.5%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>05/30/07 08:40</i>	
<i>1,2-DCA-d4</i>		<i>98.5%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Dibromofluoromethane</i>		<i>102%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Toluene-d8</i>		<i>97.0%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (7051407-MS1)													QC Source: PQE0971-01		Extracted: 05/30/07 08:16	
Benzene	EPA 8260B	20.1	---	1.00	ug/l	1x	ND	20.0	100%	(80-124)	--	--	05/30/07 09:07			
Chlorobenzene	"	20.8	---	1.00	"	"	ND	"	104%	(72.9-134)	--	--	"			
1,1-Dichloroethene	"	20.4	---	1.00	"	"	ND	"	102%	(79.3-127)	--	--	"			
Toluene	"	20.0	---	1.00	"	"	ND	"	100%	(79.7-131)	--	--	"			
Trichloroethene	"	19.9	---	1.00	"	"	ND	"	99.5%	(68.4-130)	--	--	"			
<i>Surrogate(s): 4-BFB</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>05/30/07 09:07</i>			
<i>1,2-DCA-d4</i>		<i>103%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>			
<i>Dibromofluoromethane</i>		<i>106%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>			
<i>Toluene-d8</i>		<i>102%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>			

Matrix Spike Dup (7051407-MSD1)													QC Source: PQE0971-01		Extracted: 05/30/07 08:16	
Benzene	EPA 8260B	19.9	---	1.00	ug/l	1x	ND	20.0	99.5%	(80-124)	1.00%	(25)	05/30/07 09:34			
Chlorobenzene	"	20.7	---	1.00	"	"	ND	"	104%	(72.9-134)	0.482%	"	"			
1,1-Dichloroethene	"	20.1	---	1.00	"	"	ND	"	100%	(79.3-127)	1.48%	"	"			
Toluene	"	20.0	---	1.00	"	"	ND	"	100%	(79.7-131)	0.00%	"	"			
Trichloroethene	"	19.5	---	1.00	"	"	ND	"	97.5%	(68.4-130)	2.03%	"	"			
<i>Surrogate(s): 4-BFB</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>05/30/07 09:34</i>			
<i>1,2-DCA-d4</i>		<i>106%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>			
<i>Dibromofluoromethane</i>		<i>108%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>			
<i>Toluene-d8</i>		<i>104%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>			

TestAmerica - Anchorage, AK



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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

Project Name: **100-1467**
Project Number: [none]
Project Manager: Andrew Ellsmore

Report Created:
06/06/07 16:47

Notes and Definitions

Report Specific Notes:

R2 - The RPD exceeded the acceptance limit.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Test America

ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **AQ E0085**

CLIENT: <u>Client</u>			INVOICE TO:			TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.								
REPORT TO: <u>Conestoga - Rivers & Associates</u>			P.O. NUMBER:											
ADDRESS: <u>2828 N. Speer Blvd Suite 140</u>														
Denver, CO 80211														
PHONE: <u>303-433-3912</u> FAX: <u>303-433-3974</u>														
PROJECT NAME: <u>100-1467</u>			PRESERVATIVE											
PROJECT NUMBER:			HCl HCl HCl HCl HCl None None											
SAMPLED BY: <u>NGEP</u>			REQUESTED ANALYSES											
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		<u>Geo (AK101)</u>	<u>BTEX (8021)</u>	<u>DRO (AK102)</u>	<u>P-RO (AK103)</u>	<u>VOCs w/BTEX (8260)</u>	<u>Sub</u>	<u>Other</u>	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
1 MW-2		5/22/07 1430		X	X	X	X		Sub	Other	GW	5		1
2 MW-4		5/22/07 1245		X	X	X	X		Sub	Other	GW	5		2
3 MW-5		5/22/07 1345		X	X	X	X		Sub	Other	GW	5		3
4 MW-6		5/22/07 1530		X		X	X	X	Sub	Other	GW	8		4
5 DUP-1		5/22/07 —		X		X	X	X	Sub	Other	GW	8		5
6 SEEP-1		5/22/07 1045		X	X				Sub	Other	GW	3		6
7 TRIP BLANK		— —		X	X			X	Sub	Other	—	3		
8														
9														
10														
RELEASED BY: <u>Eric Purcell</u>			DATE: <u>5/22/07</u>			RECEIVED BY: <u>Trey Engstrom</u>			DATE: <u>5/23/07</u>					
PRINT NAME: <u>Eric Purcell</u>			FIRM: <u>CRA</u>			PRINT NAME: <u>Trey Engstrom</u>			FIRM: <u>TA-AK</u>					
RELEASED BY:			DATE:			RECEIVED BY:			DATE:					
PRINT NAME:			FIRM:			PRINT NAME:			FIRM:					
ADDITIONAL REMARKS:														
LOC REV 09/2004									TEMP: <u>3.3</u>					
									PAGE 1 OF 1					

Test America Cooler Receipt Form

(Army Corps. Complaint)

WORK ORDER # AD50085

CLIENT Lawson/Cambria

PROJECT: 100-1467

Date/Time Cooler Arrived 5/23/07 18:45 Cooler signed for by: Daved Houston

(Print name)

Preliminary Examination Phase:

Date cooler opened: same as date received or

Cooler opened by (print) Troy S. Strom (sign) Troy S. Strom

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

Shipment Tracking # if applicable 8956-6520 (include copy of shipping papers in file)

2. Number of Custody Seals 2 Signed by See back Date 5/23/07

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 place? Yes No

6. Was ice used? Yes No Type of ice: blue ice gel ice real ice dry ice Condition of ice: None

Temperature by Digi-Thermo Probe 4.2 °C Thermometer # Dec 43
3.3

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

14. Were VOA vials free of bubbles? N/A Yes No
If "NO" which containers contained "head space" or bubbles? _____

Log-in Phase:

Date of sample log-in 5/24/06
Samples logged in by (print) TEAM Leader (sign) [Signature]

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

CUSTODY SEAL

Date 5/23/01

Signature [Signature]

Test America
ANALYTICAL TESTING CORPORATION

AD E0085

June 13, 2007

Andrew Ellsmore
Cambria Environmental Technology, Inc.
2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

RE: 100-1467

Enclosed are the results of analyses for samples received by the laboratory on 05/23/07 18:46.
The following list is a summary of the Work Orders contained in this report, generated on 06/13/07
18:38.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
AQE0083	100-1467	[none]

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Cambria Environmental Technology, Inc. 2828 North Speer Blvd., Suite 140 Denver, CO/USA 80211	Project Name:	100-1467	Report Created:
	Project Number:	[none]	06/13/07 18:38
	Project Manager:	Andrew Ellsmore	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	AQE0083-01	Water	05/22/07 15:30	05/23/07 18:46
DUP-1	AQE0083-02	Water	05/22/07 15:30	05/23/07 18:46
SEEP-1	AQE0083-03	Water	05/22/07 10:45	05/23/07 18:46
TRIP BLANK	AQE0083-04	Water	05/22/07 00:00	05/23/07 18:46

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

Project Name: **100-1467**
Project Number: [none]
Project Manager: Andrew Ellsmore

Report Created:
06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0083-01 (MW-6)		Water		Sampled: 05/22/07 15:30						
Acenaphthene	EPA 8270C	ND	----	4.76	ug/l	1x	7051371	05/29/07 17:40	06/02/07 00:50	
Acenaphthylene	"	ND	----	4.76	"	"	"	"	"	
Anthracene	"	ND	----	4.76	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	4.76	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	4.76	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	4.76	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	4.76	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	4.76	"	"	"	"	"	
Benzoic Acid	"	ND	----	47.6	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.52	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	4.76	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	4.76	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	4.76	"	"	"	"	"	
4-Chloroaniline	"	ND	----	19.0	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	4.76	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.52	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	4.76	"	"	"	"	"	
2-Chlorophenol	"	ND	----	4.76	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	4.76	"	"	"	"	"	
Chrysene	"	ND	----	4.76	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	4.76	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	4.76	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	4.76	"	"	"	"	"	
Dibenzofuran	"	ND	----	4.76	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	4.76	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	4.76	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	4.76	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	4.76	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	4.76	"	"	"	"	"	
Diethyl phthalate	"	ND	----	4.76	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.52	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	4.76	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	23.8	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	4.76	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	4.76	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.52	"	"	"	"	"	
Fluoranthene	"	ND	----	4.76	"	"	"	"	"	
Fluorene	"	ND	----	4.76	"	"	"	"	"	
Hexachlorobenzene	"	ND	----	4.76	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.52	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.52	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
 Denver, CO/USA 80211

Project Name: **100-1467**
 Project Number: [none]
 Project Manager: Andrew Ellsmore

Report Created:
 06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0083-01 (MW-6)		Water				Sampled: 05/22/07 15:30				
Hexachloroethane	EPA 8270C	ND	----	9.52	ug/l	1x	7051371	05/29/07 17:40	06/02/07 00:50	
Indeno (1,2,3-cd) pyrene	"	ND	----	4.76	"	"	"	"	"	
Isophorone	"	ND	----	4.76	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	4.76	"	"	"	"	"	
2-Methylphenol	"	ND	----	9.52	"	"	"	"	"	
3-,4-Methylphenol	"	ND	----	4.76	"	"	"	"	"	
Naphthalene	"	ND	----	4.76	"	"	"	"	"	
2-Nitroaniline	"	ND	----	4.76	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
Nitrobenzene	"	ND	----	4.76	"	"	"	"	"	
2-Nitrophenol	"	ND	----	4.76	"	"	"	"	"	
4-Nitrophenol	"	ND	----	23.8	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	4.76	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.52	"	"	"	"	"	
Phenanthrene	"	ND	----	4.76	"	"	"	"	"	
Phenol	"	ND	----	4.76	"	"	"	"	"	
Pyrene	"	ND	----	4.76	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	4.76	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	4.76	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	4.76	"	"	"	"	"	
<hr/>										
<i>Surrogate(s):</i>										
	<i>2-Fluorobiphenyl</i>		<i>74.6%</i>		<i>22 - 120 %</i>					
	<i>2-Fluorophenol</i>		<i>63.6%</i>		<i>5 - 120 %</i>					
	<i>Nitrobenzene-d5</i>		<i>78.6%</i>		<i>26 - 127 %</i>					
	<i>Phenol-d6</i>		<i>71.3%</i>		<i>4 - 121 %</i>					
	<i>p-Terphenyl-d14</i>		<i>66.5%</i>		<i>37 - 130 %</i>					
	<i>2,4,6-Tribromophenol</i>		<i>78.3%</i>		<i>21 - 129 %</i>					
<hr/>										
AQE0083-02 (DUP-1)		Water				Sampled: 05/22/07 15:30				
Acenaphthene	EPA 8270C	ND	----	4.85	ug/l	1x	7051371	05/29/07 17:40	06/02/07 01:33	
Acenaphthylene	"	ND	----	4.85	"	"	"	"	"	
Anthracene	"	ND	----	4.85	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	4.85	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	4.85	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	4.85	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	4.85	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	4.85	"	"	"	"	"	
Benzoic Acid	"	ND	----	48.5	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.71	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	4.85	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	4.85	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
 Denver, CO/USA 80211

Project Name: **100-1467**
 Project Number: [none]
 Project Manager: Andrew Ellsmore

Report Created:
 06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0083-02 (DUP-1)		Water		Sampled: 05/22/07 15:30						
4-Chloro-3-methylphenol	EPA 8270C	ND	----	4.85	ug/l	1x	7051371	05/29/07 17:40	06/02/07 01:33	
4-Chloroaniline	"	ND	----	19.4	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.71	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	4.85	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.71	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	4.85	"	"	"	"	"	
2-Chlorophenol	"	ND	----	4.85	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	4.85	"	"	"	"	"	
Chrysene	"	ND	----	4.85	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	4.85	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	4.85	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	4.85	"	"	"	"	"	
Dibenzofuran	"	ND	----	4.85	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	4.85	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	4.85	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	4.85	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	4.85	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	4.85	"	"	"	"	"	
Diethyl phthalate	"	ND	----	4.85	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.71	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	4.85	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.71	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	24.3	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	4.85	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	4.85	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.71	"	"	"	"	"	
Fluoranthene	"	ND	----	4.85	"	"	"	"	"	
Fluorene	"	ND	----	4.85	"	"	"	"	"	
Hexachlorobenzene	"	ND	----	4.85	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.71	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.71	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.71	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	4.85	"	"	"	"	"	
Isophorone	"	ND	----	4.85	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	4.85	"	"	"	"	"	
2-Methylphenol	"	ND	----	9.71	"	"	"	"	"	
3-,4-Methylphenol	"	147	----	4.85	"	"	"	"	"	
Naphthalene	"	ND	----	4.85	"	"	"	"	"	
2-Nitroaniline	"	ND	----	4.85	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.71	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.71	"	"	"	"	"	
Nitrobenzene	"	ND	----	4.85	"	"	"	"	"	
2-Nitrophenol	"	ND	----	4.85	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0083-02 (DUP-1)		Water				Sampled: 05/22/07 15:30				
4-Nitrophenol	EPA 8270C	ND	----	24.3	ug/l	1x	7051371	05/29/07 17:40	06/02/07 01:33	
N-Nitrosodi-n-propylamine	"	ND	----	9.71	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	4.85	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.71	"	"	"	"	"	
Phenanthrene	"	ND	----	4.85	"	"	"	"	"	
Phenol	"	ND	----	4.85	"	"	"	"	"	
Pyrene	"	ND	----	4.85	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	4.85	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	4.85	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	4.85	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>2-Fluorobiphenyl</i>	<i>83.8%</i>	<i>22 - 120 %</i>	<i>"</i>	<i>"</i>
	<i>2-Fluorophenol</i>	<i>74.7%</i>	<i>5 - 120 %</i>	<i>"</i>	<i>"</i>
	<i>Nitrobenzene-d5</i>	<i>87.8%</i>	<i>26 - 127 %</i>	<i>"</i>	<i>"</i>
	<i>Phenol-d6</i>	<i>82.2%</i>	<i>4 - 121 %</i>	<i>"</i>	<i>"</i>
	<i>p-Terphenyl-d14</i>	<i>75.8%</i>	<i>37 - 130 %</i>	<i>"</i>	<i>"</i>
	<i>2,4,6-Tribromophenol</i>	<i>87.7%</i>	<i>21 - 129 %</i>	<i>"</i>	<i>"</i>

AQE0083-04 (TRIP BLANK)		Water				Sampled: 05/22/07 00:00				
Acenaphthene	EPA 8270C	ND	----	4.81	ug/l	1x	7051371	05/29/07 17:40	06/01/07 23:20	
Acenaphthylene	"	ND	----	4.81	"	"	"	"	"	
Anthracene	"	ND	----	4.81	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	4.81	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	4.81	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	4.81	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	4.81	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	4.81	"	"	"	"	"	
Benzoic Acid	"	ND	----	48.1	"	"	"	"	"	
Benzyl alcohol	"	ND	----	9.62	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	4.81	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	4.81	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	4.81	"	"	"	"	"	
4-Chloroaniline	"	ND	----	19.2	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.62	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	4.81	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.62	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	4.81	"	"	"	"	"	
2-Chlorophenol	"	ND	----	4.81	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	4.81	"	"	"	"	"	
Chrysene	"	ND	----	4.81	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	4.81	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	4.81	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	4.81	"	"	"	"	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
 Denver, CO/USA 80211

Project Name: **100-1467**
 Project Number: [none]
 Project Manager: Andrew Ellsmore

Report Created:
 06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0083-04 (TRIP BLANK)		Water		Sampled: 05/22/07 00:00						
Dibenzofuran	EPA 8270C	ND	----	4.81	ug/l	1x	7051371	05/29/07 17:40	06/01/07 23:20	
1,2-Dichlorobenzene	"	ND	----	4.81	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	4.81	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	4.81	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	4.81	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	4.81	"	"	"	"	"	
Diethyl phthalate	"	ND	----	4.81	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.62	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	4.81	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.62	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	24.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	4.81	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	4.81	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	9.62	"	"	"	"	"	
Fluoranthene	"	ND	----	4.81	"	"	"	"	"	
Fluorene	"	ND	----	4.81	"	"	"	"	"	
Hexachlorobenzene	"	ND	----	4.81	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	9.62	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	9.62	"	"	"	"	"	
Hexachloroethane	"	ND	----	9.62	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	4.81	"	"	"	"	"	
Isophorone	"	ND	----	4.81	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	4.81	"	"	"	"	"	
2-Methylphenol	"	ND	----	9.62	"	"	"	"	"	
3-,4-Methylphenol	"	ND	----	4.81	"	"	"	"	"	
Naphthalene	"	ND	----	4.81	"	"	"	"	"	
2-Nitroaniline	"	ND	----	4.81	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.62	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.62	"	"	"	"	"	
Nitrobenzene	"	ND	----	4.81	"	"	"	"	"	
2-Nitrophenol	"	ND	----	4.81	"	"	"	"	"	
4-Nitrophenol	"	ND	----	24.0	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.62	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	4.81	"	"	"	"	"	
Pentachlorophenol	"	ND	----	9.62	"	"	"	"	"	
Phenanthrene	"	ND	----	4.81	"	"	"	"	"	
Phenol	"	ND	----	4.81	"	"	"	"	"	
Pyrene	"	ND	----	4.81	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	4.81	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	----	4.81	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	4.81	"	"	"	"	"	

Surrogate(s): 2-Fluorobiphenyl

77.1%

22 - 120 %

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
AQE0083-04 (TRIP BLANK)		Water			Sampled: 05/22/07 00:00					
<i>2-Fluorophenol</i>		70.1%			5 - 120 %	<i>1x</i>			06/01/07 23:20	
<i>Nitrobenzene-d5</i>		84.3%			26 - 127 %	"			"	
<i>Phenol-d6</i>		78.5%			4 - 121 %	"			"	
<i>p-Terphenyl-d14</i>		85.2%			37 - 130 %	"			"	
<i>2,4,6-Tribromophenol</i>		81.2%			21 - 129 %	"			"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

Project Name: **100-1467**
Project Number: [none]
Project Manager: Andrew Ellsmore

Report Created:
06/13/07 18:38

Polynuclear Aromatic Compounds per EPA 8270M-SIM
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

AQE0083-03 (SEEP-1)

Water

Sampled: 05/22/07 10:45

Acenaphthene	EPA 8270m	ND	----	0.0952	ug/l	1x	7051375	05/29/07 17:50	06/05/07 16:33	
Acenaphthylene	"	ND	----	0.0952	"	"	"	"	"	
Anthracene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0952	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0952	"	"	"	"	"	
Chrysene	"	ND	----	0.0952	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.190	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0952	"	"	"	"	"	
Fluorene	"	ND	----	0.0952	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0952	"	"	"	"	"	
Naphthalene	"	ND	----	0.0952	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0952	"	"	"	"	"	
Pyrene	"	ND	----	0.0952	"	"	"	"	"	

Surrogate(s): Fluorene-d10	97.5%	25 - 125 %	"	"
Pyrene-d10	94.5%	23 - 150 %	"	"
Benzo (a) pyrene-d12	63.4%	10 - 125 %	"	"

AQE0083-04 (TRIP BLANK)

Water

Sampled: 05/22/07 00:00

Acenaphthene	EPA 8270m	ND	----	0.0962	ug/l	1x	7051375	05/29/07 17:50	06/05/07 17:07	
Acenaphthylene	"	ND	----	0.0962	"	"	"	"	"	
Anthracene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0962	"	"	"	"	"	
Chrysene	"	ND	----	0.0962	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.192	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0962	"	"	"	"	"	
Fluorene	"	ND	----	0.0962	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0962	"	"	"	"	"	
Naphthalene	"	ND	----	0.0962	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0962	"	"	"	"	"	
Pyrene	"	ND	----	0.0962	"	"	"	"	"	

Surrogate(s): Fluorene-d10	103%	25 - 125 %	"	"
Pyrene-d10	97.9%	23 - 150 %	"	"
Benzo (a) pyrene-d12	95.8%	10 - 125 %	"	"

TestAmerica - Anchorage, AK

Troy J Engstrom

Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7051371 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7051371-BLK1)										Extracted: 05/29/07 17:40				
Acenaphthene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	06/01/07 18:51	
Acenaphthylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results
TestAmerica - Portland, OR

QC Batch: 7051371 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7051371-BLK1)													Extracted: 05/29/07 17:40	
Fluorene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	06/01/07 18:51	
Hexachlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3-,4-Methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>2-Fluorobiphenyl</i>	<i>Recovery:</i>	<i>70.7%</i>	<i>Limits:</i>	<i>22-120%</i>	<i>"</i>							<i>06/01/07 18:51</i>	
	<i>2-Fluorophenol</i>		<i>65.1%</i>		<i>5-120%</i>	<i>"</i>							<i>"</i>	
	<i>Nitrobenzene-d5</i>		<i>79.9%</i>		<i>26-127%</i>	<i>"</i>							<i>"</i>	
	<i>Phenol-d6</i>		<i>73.3%</i>		<i>4-121%</i>	<i>"</i>							<i>"</i>	
	<i>p-Terphenyl-d14</i>		<i>81.1%</i>		<i>37-130%</i>	<i>"</i>							<i>"</i>	
	<i>2,4,6-Tribromophenol</i>		<i>77.3%</i>		<i>21-129%</i>	<i>"</i>							<i>"</i>	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/13/07 18:38

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7051371 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7051371-BS1)													Extracted: 05/29/07 17:40	
Acenaphthene	EPA 8270C	43.9	---	5.00	ug/l	1x	--	50.0	87.8%	(56-120)	--	--	06/01/07 19:36	
4-Chloro-3-methylphenol	"	42.6	---	5.00	"	"	--	"	85.2%	(37-131)	--	--	"	
2-Chlorophenol	"	40.7	---	5.00	"	"	--	"	81.4%	(31-130)	--	--	"	
1,4-Dichlorobenzene	"	36.9	---	5.00	"	"	--	"	73.8%	(8-124)	--	--	"	
2,4-Dinitrotoluene	"	36.6	---	5.00	"	"	--	"	73.2%	(50-127)	--	--	"	
4-Nitrophenol	"	37.9	---	25.0	"	"	--	"	75.8%	(1-157)	--	--	"	
N-Nitrosodi-n-propylamine	"	42.7	---	10.0	"	"	--	"	85.4%	(44-129)	--	--	"	
Pentachlorophenol	"	44.4	---	10.0	"	"	--	"	88.8%	(23-149)	--	--	"	
Phenol	"	41.2	---	5.00	"	"	--	"	82.4%	(1-145)	--	--	"	
Pyrene	"	46.3	---	5.00	"	"	--	"	92.6%	(56-125)	--	--	"	
1,2,4-Trichlorobenzene	"	36.9	---	5.00	"	"	--	"	73.8%	(33-116)	--	--	"	
<i>Surrogate(s):</i>	<i>2-Fluorobiphenyl</i>	<i>Recovery:</i>	<i>79.1%</i>	<i>Limits:</i>	<i>22-120%</i>	<i>"</i>							<i>06/01/07 19:36</i>	
	<i>2-Fluorophenol</i>		<i>69.3%</i>		<i>5-120%</i>	<i>"</i>							<i>"</i>	
	<i>Nitrobenzene-d5</i>		<i>85.9%</i>		<i>26-127%</i>	<i>"</i>							<i>"</i>	
	<i>Phenol-d6</i>		<i>76.7%</i>		<i>4-121%</i>	<i>"</i>							<i>"</i>	
	<i>p-Terphenyl-d14</i>		<i>91.9%</i>		<i>37-130%</i>	<i>"</i>							<i>"</i>	
	<i>2,4,6-Tribromophenol</i>		<i>88.0%</i>		<i>21-129%</i>	<i>"</i>							<i>"</i>	

LCS Dup (7051371-BS1)													Extracted: 05/29/07 17:40	
Acenaphthene	EPA 8270C	41.5	---	5.00	ug/l	1x	--	50.0	83.0%	(56-120)	5.62% (50)		06/01/07 20:20	
4-Chloro-3-methylphenol	"	40.3	---	5.00	"	"	--	"	80.6%	(37-131)	5.55%	"	"	
2-Chlorophenol	"	40.5	---	5.00	"	"	--	"	81.0%	(31-130)	0.493%	"	"	
1,4-Dichlorobenzene	"	32.5	---	5.00	"	"	--	"	65.0%	(8-124)	12.7%	"	"	
2,4-Dinitrotoluene	"	36.4	---	5.00	"	"	--	"	72.8%	(50-127)	0.548%	"	"	
4-Nitrophenol	"	39.0	---	25.0	"	"	--	"	78.0%	(1-157)	2.86%	"	"	
N-Nitrosodi-n-propylamine	"	41.0	---	10.0	"	"	--	"	82.0%	(44-129)	4.06%	"	"	
Pentachlorophenol	"	43.6	---	10.0	"	"	--	"	87.2%	(23-149)	1.82%	"	"	
Phenol	"	40.1	---	5.00	"	"	--	"	80.2%	(1-145)	2.71%	"	"	
Pyrene	"	44.4	---	5.00	"	"	--	"	88.8%	(56-125)	4.19%	"	"	
1,2,4-Trichlorobenzene	"	34.6	---	5.00	"	"	--	"	69.2%	(33-116)	6.43%	"	"	
<i>Surrogate(s):</i>	<i>2-Fluorobiphenyl</i>	<i>Recovery:</i>	<i>75.9%</i>	<i>Limits:</i>	<i>22-120%</i>	<i>"</i>							<i>06/01/07 20:20</i>	
	<i>2-Fluorophenol</i>		<i>67.3%</i>		<i>5-120%</i>	<i>"</i>							<i>"</i>	
	<i>Nitrobenzene-d5</i>		<i>84.3%</i>		<i>26-127%</i>	<i>"</i>							<i>"</i>	
	<i>Phenol-d6</i>		<i>73.3%</i>		<i>4-121%</i>	<i>"</i>							<i>"</i>	
	<i>p-Terphenyl-d14</i>		<i>92.0%</i>		<i>37-130%</i>	<i>"</i>							<i>"</i>	
	<i>2,4,6-Tribromophenol</i>		<i>86.0%</i>		<i>21-129%</i>	<i>"</i>							<i>"</i>	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.	Project Name: 100-1467	
2828 North Speer Blvd., Suite 140	Project Number: [none]	Report Created:
Denver, CO/USA 80211	Project Manager: Andrew Ellsmore	06/13/07 18:38

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7051375 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7051375-BLK1)													Extracted: 05/29/07 17:15	
Acenaphthene	EPA 8270m	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	06/07/07 22:40	
Acenaphthylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): Fluorene-d10</i>		<i>Recovery:</i>	<i>85.6%</i>	<i>Limits:</i>	<i>25-125%</i>	<i>"</i>							<i>06/07/07 22:40</i>	
<i>Pyrene-d10</i>			<i>74.4%</i>		<i>23-150%</i>	<i>"</i>							<i>"</i>	
<i>Benzo (a) pyrene-d12</i>			<i>84.4%</i>		<i>10-125%</i>	<i>"</i>							<i>"</i>	

LCS (7051375-BS1)													Extracted: 05/29/07 17:15	
Acenaphthene	EPA 8270m	2.12	---	0.100	ug/l	1x	--	2.50	84.8%	(26-135)	--	--	06/07/07 23:14	
Benzo (a) pyrene	"	2.48	---	0.100	"	"	--	"	99.2%	(38-137)	--	--	"	
Pyrene	"	1.87	---	0.100	"	"	--	"	74.8%	(33-133)	--	--	"	
<i>Surrogate(s): Fluorene-d10</i>		<i>Recovery:</i>	<i>86.0%</i>	<i>Limits:</i>	<i>25-125%</i>	<i>"</i>							<i>06/07/07 23:14</i>	
<i>Pyrene-d10</i>			<i>71.6%</i>		<i>23-150%</i>	<i>"</i>							<i>"</i>	
<i>Benzo (a) pyrene-d12</i>			<i>94.8%</i>		<i>10-125%</i>	<i>"</i>							<i>"</i>	

LCS Dup (7051375-BSD1)													Extracted: 05/29/07 17:15	
Acenaphthene	EPA 8270m	2.18	---	0.100	ug/l	1x	--	2.50	87.2%	(26-135)	2.79% (60)		06/07/07 23:47	
Benzo (a) pyrene	"	2.68	---	0.100	"	"	--	"	107%	(38-137)	7.75%	"	"	
Pyrene	"	1.89	---	0.100	"	"	--	"	75.6%	(33-133)	1.06%	"	"	
<i>Surrogate(s): Fluorene-d10</i>		<i>Recovery:</i>	<i>86.8%</i>	<i>Limits:</i>	<i>25-125%</i>	<i>"</i>							<i>06/07/07 23:47</i>	
<i>Pyrene-d10</i>			<i>71.2%</i>		<i>23-150%</i>	<i>"</i>							<i>"</i>	
<i>Benzo (a) pyrene-d12</i>			<i>102%</i>		<i>10-125%</i>	<i>"</i>							<i>"</i>	

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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Cambria Environmental Technology, Inc.

2828 North Speer Blvd., Suite 140
Denver, CO/USA 80211

Project Name: **100-1467**
Project Number: [none]
Project Manager: Andrew Ellsmore

Report Created:
06/13/07 18:38

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Anchorage, AK



Troy J. Engstrom For Andy Goodson, LIMS Analyst

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CHAIN OF CUSTODY REPORT

Work Order #: **AGF0083**

CLIENT: Chevron			INVOICE TO:			TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.			
REPORT TO: Comestoga Rivers & Associates ADDRESS: 2828 N. Spear Blvd Suite 140 Denver, CO 80211			P.O. NUMBER:						
PHONE: 303-433-3912 FAX: 303-433-3974			PRESERVATIVE						
PROJECT NAME: 100-1467			REQUESTED ANALYSES						
PROJECT NUMBER:			NONE NONE						
SAMPLED BY: NGEP			SIOC (8270)						
			PAH (8270 S/m)						
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME					MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
1 MW-6	5/22/07 1530	X				GW	2		1
2 DWP-1	5/22/07 —	X				GW	2		2
3 SEEP-1	5/22/07 1045		X			GW	2		3
4 TRIP BLANK	— —	X	X			—	2		4
5									
6									
7									
8									
9									
10									
RELEASED BY: Eric Purcell	FIRM: CRA	DATE: 5/22/07	TIME: 0900	RECEIVED BY: David Houston	FIRM:	DATE: 5-23-07	TIME: 18346		
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:		
ADDITIONAL REMARKS:							TEMP: 4.0	PAGE 1 OF 1	

Test America Cooler Receipt Form

(Army Corps. Compliant)

WORK ORDER #

AR-E-0083 CLIENT: Chevron

PROJECT: 1007467

Date /Time Cooler Arrived

5 / 23 / 07 18:40

Cooler signed for by:

David Houston
(Print name)

Preliminary Examination Phase:

Date cooler opened: same as date received or

Cooler opened by (print) David Houston

(sign) David Houston

1. Delivered by ALASKA AIRLINES

Fed-Ex

UPS

NAC

LYNDEN

CLIENT

Other: _____

Shipment Tracking # if applicable

027-3956 6520

(include copy of shipping papers in file)

2. Number of Custody Seals 1

Signed by See back

Date 5/23/07

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 place?

Yes

No

6. Was ice used? Yes No

Type of ice: blue ice gel ice real ice dry ice

Condition of Ice: melting

Temperature by Digi-Thermo Probe 40 °C

Thermometer # Rec # 3

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. Is there adequate volume for the tests requested?

Yes

No

14. Were VOA vials free of bubbles?

N/A

Yes

No

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

Log-in Phase:

Date of sample log-in 5 / 24 / 06

Samples logged in by (print) Jim McLean

(sign) Jim McLean

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

A0E0083

CUSTODY SEAL

Date 5/23/07

Signature [Handwritten Signature]

Test America
ANALYTICAL TESTING CORPORATION

ATTACHEMENT F

**ADEC Quality Assurance Summary and
Laboratory Data Review Checklist**

QUALITY ASSURANCE SUMMARY
CHEVRON 100-1467, 1st SEMIANNUAL 2007
GROUNDWATER MONITORING EVENT

Precision

Field Duplicates: Four groundwater monitoring wells and two seeps were sampled. One blind field duplicate (Dup-1) was collected from well MW-6.

Laboratory Sample Duplicates and/or Spike Duplicates: Laboratory sample duplicates and matrix spike duplicates were analyzed and reported with all groundwater samples collected during groundwater sampling activities.

Accuracy

Laboratory QC Samples Percent Recoveries–Spikes: All laboratory QC sample percent recoveries were within accepted values.

Surrogate Percent Recoveries: All surrogate sample percent recoveries were within accepted values.

Representativeness

Site Condition Characterization: Groundwater samples were collected from all existing ADEC requested monitoring wells associated with the site.

Consistency with Conceptual Site Model (CSM) and Data Quality Objectives: Groundwater sampling was conducted in accordance with CRA's ADEC approved historical sampling plan.

Comparability

Field Screening vs. Laboratory Data Correlation: There were no noted irregularities or observations on submitted field sheets.

Laboratory Standardization: Test America Analytical Laboratories, Washington conducted all sample analysis.

Completeness

Percent Completeness: The 85% minimum completeness goal per the ADEC UST Procedures Manual was met:

$\% \text{Completeness} = (\text{Number of Valid samples} / \text{Number of total}) * 100\%$

- $\% \text{Completeness} = (6/6) * 100\% = 100\% \text{ Complete}$

Sensitivity

Limits of Detection: The laboratory limits of detection were less than the regulatory cleanup levels established in Groundwater Cleanup Levels, Table C (ADEC, 18 AAC 75.345).

Blank Results: The trip blank limits of detection were less than the PQL.

Laboratory Data Review Checklist

1. Laboratory

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

Yes No Comments:

Test America Analytical Laboratories, Anchorage

- 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 Comments:

Samples were NOT transferred.

2. Chain of Custody (COC)

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

Yes No Comments:

- b. Correct analyses requested?

Yes No Comments:

GRO, DRO, BTEX, SVOCs, VOCs, PAHs

3. Laboratory Sample Receipt Documentation

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

Yes No Comments:

3.2 degrees Celsius, 3.3 degrees Celsius, and 4.0 degrees Celsius

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

Yes No Comments:

HCl and MeOH (soil)

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

Yes No Comments:

All samples received in good condition.

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

Yes No Comments:

No discrepancies noted.

e. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

4. Case Narrative

a. Present and understandable?

Yes No Comments:

Please see "Notes and Abbreviations"

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

Yes No Comments:

No discrepancies, errors, or QC failures identified.

c. Were all corrective actions documented?

Yes No Comments:

No corrective actions necessary.

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

Comments:

No effect on data quality/usability according to the narrative.

5. Samples Results

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

Yes No Comments:

b. All applicable holding times met?

Yes No Comments:

c. All soils reported on a dry weight basis?

Yes No

Comments:

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

Yes No

Comments:

e. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

6. QC Samples

a. Method Blank

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

Yes No

Comments:

ii. All method blank results less than PQL?

Yes No

Comments:

iii. If above PQL, what samples are affected?

Comments:

No affected samples.

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

Yes No

Comments:

No affected samples.

v. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

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

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples?

Yes No Comments:

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

Yes No Comments:

Metals/Inorganics not analyzed.

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 Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No Comments:

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

Comments:

%R or RPD is NOT outside of acceptable limits.

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

Yes No Comments:

No affected samples

vii. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

c. Surrogates – Organics Only

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

Yes No 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 Comments:

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

Yes No Comments:

There are NO failed surrogate recoveries.

iv. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

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

i. One trip blank reported per matrix, analysis and cooler?

Yes No Comments:

ii. All results less than PQL?

Yes No Comments:

iii. If above PQL, what samples are affected?

Comments:

Not applicable.

iv. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

e. Field Duplicate

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

Yes No Comments:

ii. Submitted blind to lab?

Yes No

Comments:

Labelled Dup-1

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

Comments:

GRO=16.0%, DRO=18.0%, RRO=4.3%, benzene=0.0%, toluene=11.6%, ethylbenzene=0.0%, xylenes=0.0%, p-isopropyltoluene=14.3%

iv. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

f. Decontamination or Equipment Blank (if applicable)

Yes No Not Applicable

i. All results less than PQL?

Yes No

Comments:

ii. If above PQL, what samples are affected?

Comments:

Not applicable.

iii. Data quality or usability affected? Explain.

Comments:

Data quality or usability NOT affected.

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

a. Defined and appropriate?

Yes No

Comments:

No other data flags/qualifiers.

Completed by:

Nicholas Greco

Title:

Geologist

Date:

July 25, 2007

CS Report Name:

First Semiannual 2007 Groundwater Monitoring Report

Report Date:

May 22, 2007

Consultant Firm:

Conestoga-Rovers & Associates, Inc.

Laboratory Name:

Test America Analytical Laboratories

Laboratory Report Number:

AQE0083, AQE0084,
AQE0085

ADEC File Number:

1994130128401

ADEC RecKey Number: