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FILE

February 27, 2006

Atlantic Richfield
295 SW 41st Street, Bldg 13, Suite N
Renton, WA 98055

RECEIVED

SEP 27 2013

DEPT. OF ECOLOGY

Attention: Mr. Scott Hooton
Environmental Business Manager

Subject: Environmental Oversight during Retail Facility Upgrade Activities
ARCO Facility No. 5810
2101 West 6th Street
Bremerton, WA
Delta Project No. G0BN1-RR53-1

Dear Mr. Hooton:

Delta Environmental Consultants, Inc. (Delta) was retained by Remediation Management (RM), an Atlantic Richfield (AR) affiliated company to conduct environmental oversight during facility upgrade activities at ARCO Facility No. 5810 (hereinafter referred to as "subject property"). The subject property is located at 2101 West 6th Street in Bremerton, Washington (Figure 1). As part of environmental oversight activities, Delta collected soil samples from beneath two new dispenser islands and from stockpiled soils during facility upgrade activities on September 14, 2005. This letter summarizes the field activities, the analytical results of the soil samples, and the disposal of the excavated soils.

Joe Hall Construction, Inc. (Joe Hall) of Fife, Washington, was contracted by AR to complete the installation of two additional dispenser islands, retrofit the existing product piping to incorporate the additional dispensers and extend the exiting station canopy at the subject property. The two additional dispenser islands were installed northwest of the existing dispenser islands. Prior to soil sampling activities, Joe Hall removed the concrete and asphalt surface material as well as the pea gravel and fill material that had been utilized to backfill the existing product piping that extended from the dispenser islands to the Underground Storage Tank (UST) complex. This fill material was stockpiled on-site. There was no visual or other evidence of potential contamination (e.g., discoloration, odor, or evidence of staining) on the fill material.

A member of:



On September 14, 2005, Delta collected one soil sample from beneath each of the new dispenser islands and five soil samples from the soil stockpile. The soil samples were collected using Environmental Protection Agency (EPA) Method 5035A sampling techniques. Based on field observations, soil samples were collected by hand approximately three feet below grade surface (bgs), beneath the new dispenser islands. Surface soil was not incorporated into the sample. The samples were field screened using the headspace method. Soils were placed, with a minimum of handling and atmospheric exposure, in clean Zip-Lock plastic bags. These bags were filled to half to two-thirds capacity and then sealed tightly. Soils in the bags were then gently agitated to facilitate the break-up of any lumps and allowed to sit for approximately 10 minutes prior to analyzing the air above the soil in the bag (headspace). The bagged soil samples were screened for the presence of volatile organic compounds (VOCs) by inserting the probe of a Thermo 580B Photoionization Detector (PID) equipped with a 10.6 eV lamp, through the seal into the headspace of the plastic bag. The PID was calibrated using 100 parts per million (ppm) isobutylene gas. The maximum vapor concentrations were recorded for each soil sample collected; they did not exceed the background level of zero ppm during this project. Soil sample locations are shown on Figure 2. Ground water was not encountered during the excavation activities.

The soil samples were labeled, transported on ice, and submitted to North Creek Analytical, Inc. (NCA) of Bothell, Washington, under chain-of-custody documentation. The soil samples were submitted for 24-hour turn-around and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tert-butyl ether (MTBE) by EPA Method 8021B, total petroleum hydrocarbons-gasoline range (TPH-Gx) by Northwest Method NWTPH-Gx and total lead by EPA Method 6020.

Laboratory analytical results indicated that none of the soil samples collected from beneath the new dispenser islands or from the soil stockpile contained petroleum hydrocarbon concentrations above the laboratory reporting limits (Table 1). Copies of the laboratory analytical reports are attached.


According to Joe Hall, approximately 86 cubic yards of clean soil was hauled to Port Orchard Sand and Gravel. The remaining soil excavated and stockpiled as part of the construction activities was used as backfill material on site. All soils were generated as part of the construction scope of services and either used on site or hauled as clean material to Port Orchard Sand and Gravel.

Environmental Oversight during Retail Facility Upgrade Activities
ARCO Facility No. 5810
2101 West 6th Street
Bremerton, WA
Delta Project No. G0BN1-RR53-1

Delta appreciates the opportunity to provide services to AR. If you have any questions, or if you require any additional information on this project, please contact Bryan Taylor at (425) 498-7727 or Markham Hurd at (206) 679-8074.


Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.


Sarah Milliken
Staff Hydrogeologist

Reviewed by:


Bryan Taylor
Project Manager


Markham Hurd, L.G.
NW Technical Coordinator

Attachments: Table 1 – Summary of Soil Analytical Data
Figure 1– Site Location Map
Figure 2 – Soil Analytical Data – 9/14/05
North Creek Analytical Laboratory Report

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
ARCO FACILITY NO. 5810
2101 W 6TH ST
BREMERTON, WASHINGTON

Sample ID	Date Sampled	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TPH-G (mg/kg)	Total Lead (mg/kg)	Comments
DP-1	09/14/05	NA	<0.0300	<0.0500	<0.0500	<0.100	<0.100	<5.00	1.81	
DP-2	09/14/05	NA	<0.0259	<0.0432	<0.0432	<0.0864	<0.0864	<4.32	1.98	
SP-1	09/14/05	NA	<0.0300	<0.0500	<0.0500	<0.100	<0.100	<5.00	5.21	
SP-2	09/14/05	NA	<0.0270	<0.0450	<0.0450	<0.0901	<0.0901	<4.50	7.43	
SP-3	09/14/05	NA	<0.0251	<0.0419	<0.0419	<0.0838	<0.0838	<4.19	14.7	
SP-4	09/14/05	NA	<0.0300	<0.0500	<0.0500	<0.100	<0.100	<5.00	8.90	
SP-5	09/14/05	NA	<0.0272	<0.0454	<0.0454	<0.0907	<0.0907	<4.54	19.0	

Notes: Benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (MTBE) analyzed by EPA Method 8021B.

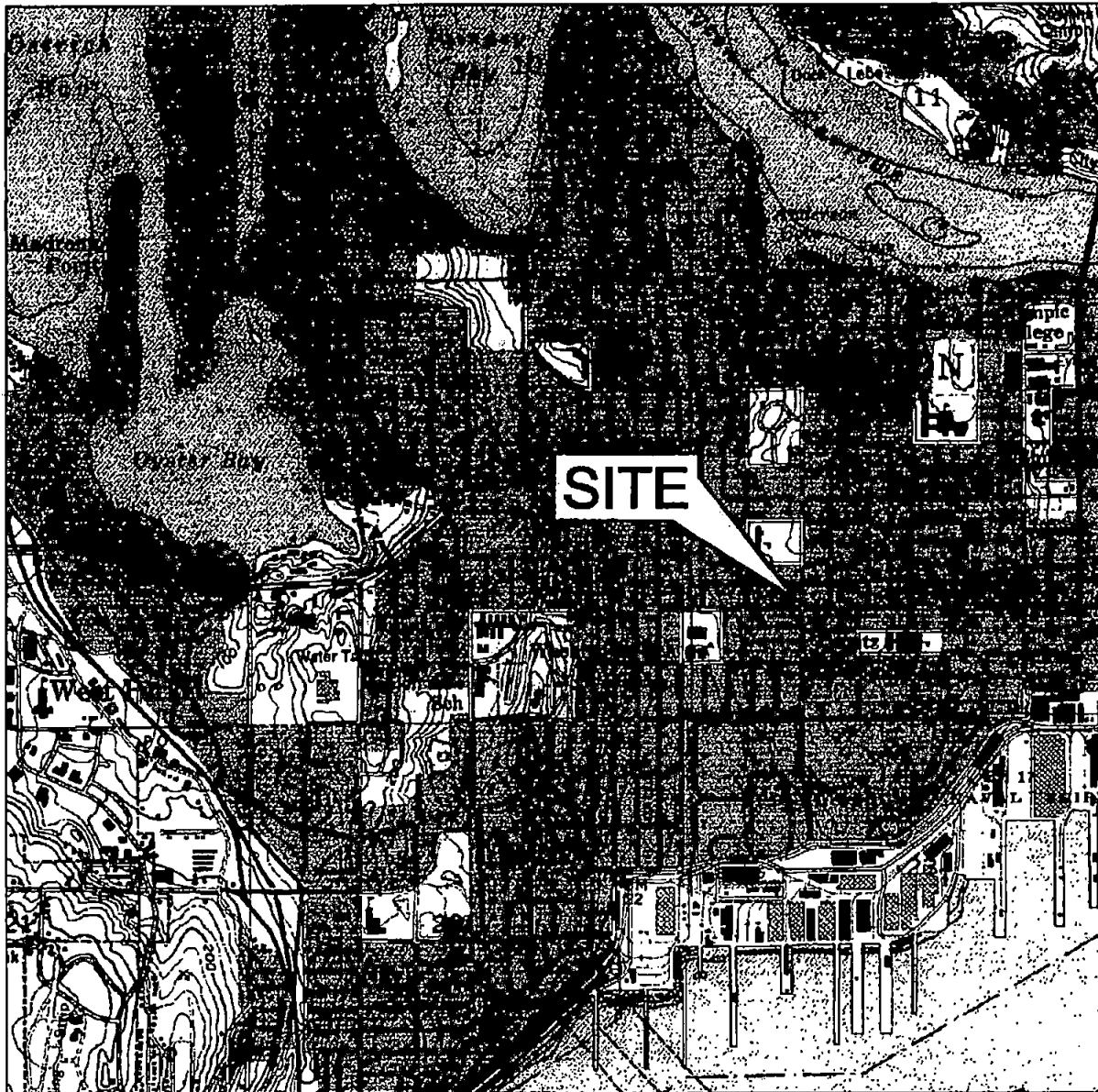
TPH-G = Gasoline-range hydrocarbons analyzed by the Northwest method NWTPH-Gx.

Total lead analyzed by EPA Method 6020.

<1.00 = Concentrations were not detected above the method detection limit.

mg/kg = Milligrams per kilogram (ppm).

NA = Not analyzed.



QUADRANGLE LOCATION



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, BREMERTON QUADRANT

FIGURE 1

SITE LOCATION MAP

ARCO FACILITY NO. 5810
2101 WEST 6TH STREET
BREMERTON, WA.

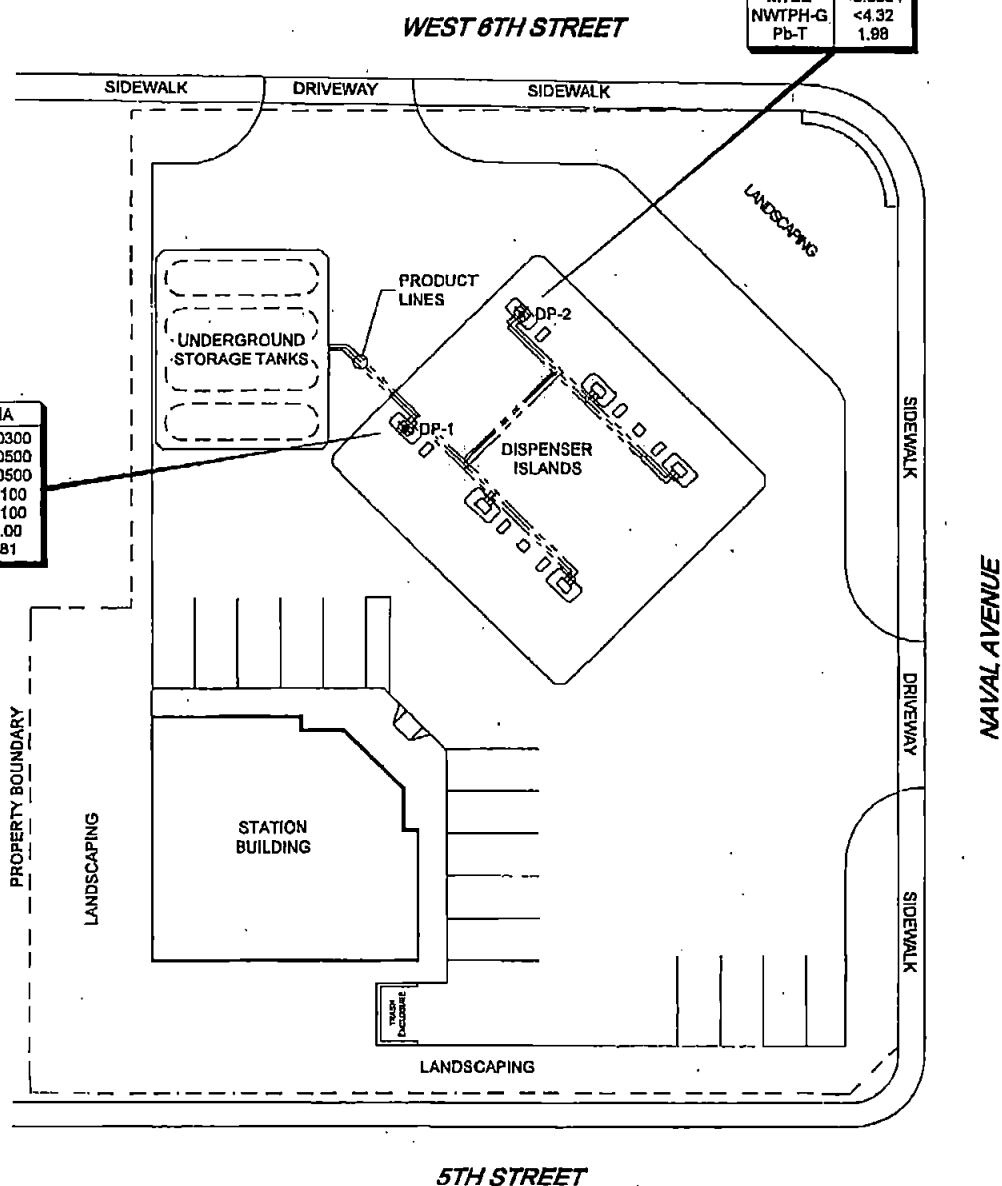
PROJECT NO. G08N1	DRAWN BY MC 12/1/05
FILE NO. Site Locator	PREPARED BY MC
REVISION NO. 1	REVIEWED BY





D	NA
B	<0.0300
T	<0.0500
E	<0.0500
X	<0.100
MTBE	<0.100
NWTPH-G	<5.00
Pb-T	1.81

D	NA
B	<0.0259
T	<0.0432
E	<0.0432
X	<0.0884
MTBE	<0.0884
NWTPH-G	<4.32
Pb-T	1.88



LEGEND:

X DP-1 SOIL SAMPLE LOCATION



APPROX. SCALE

SOIL DATA

D	NA
B	<0.0300
T	<0.0500
E	<0.0500
X	<0.100
MTBE	<0.100
NWTPH-G	<5.00
Pb-T	1.81

DEPTH OF SAMPLE IN FEET
 BENZENE IN MILLIGRAMS PER KILOGRAM (mg/kg)
 TOLUENE IN mg/kg
 ETHYLBENZENE IN mg/kg
 XYLENES IN mg/kg
 METHYL TERT-BUTYL ETHER IN mg/kg
 GASOLINE RANGE HYDROCARBONS IN mg/kg
 TOTAL LEAD IN mg/kg

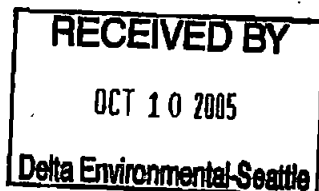
FIGURE 2

SOIL ANALYTICAL DATA
 9/14/05

ARCO FACILITY NO. 5810
 2101 WEST 6TH STREET
 BREMERTON, WA.

PROJECT NO.	DRAWN BY M.L. 2/22/06
FILE NO. ARCO 5810	PREPARED BY M.M.
REVISION NO. 1	REVIEWED BY





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907.563.9200 fax 907.563.9210

16 September 2005

Bryan Taylor
Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052
RE: BP/GEM Facility No: 5810

Enclosed are the results of analyses for samples received by the laboratory on 09/14/05 13:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra Yakamavich
Project Manager



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Delta Environmental
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Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-1	B5I0292-01	Soil	09/14/05 09:30	09/14/05 13:55
DP-2	B5I0292-02	Soil	09/14/05 09:45	09/14/05 13:55
SP-1	B5I0292-03	Soil	09/14/05 10:00	09/14/05 13:55
SP-2	B5I0292-04	Soil	09/14/05 10:05	09/14/05 13:55
SP-3	B5I0292-05	Soil	09/14/05 10:10	09/14/05 13:55
SP-4	B5I0292-06	Soil	09/14/05 10:15	09/14/05 13:55
SP-5	B5I0292-07	Soil	09/14/05 10:20	09/14/05 13:55

North Creek Analytical - Bothell

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.

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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Delta Environmental
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Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

Volatile Petroleum Products by NWTPH-Gx
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-1 (B5I0292-01) Soil Sampled: 09/14/05 09:30 Received: 09/14/05 13:55									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	5I13032	09/14/05	09/15/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	75.8 %	50-150			"	"	"	"	
DP-2 (B5I0292-02) Soil Sampled: 09/14/05 09:45 Received: 09/14/05 13:55									
Gasoline Range Hydrocarbons	ND	4.32	mg/kg dry	1	5I13032	09/14/05	09/15/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	77.3 %	50-150			"	"	"	"	
SP-1 (B5I0292-03) Soil Sampled: 09/14/05 10:00 Received: 09/14/05 13:55									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	5I13032	09/14/05	09/15/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	77.4 %	50-150			"	"	"	"	
SP-2 (B5I0292-04) Soil Sampled: 09/14/05 10:05 Received: 09/14/05 13:55									
Gasoline Range Hydrocarbons	ND	4.50	mg/kg dry	1	5I13032	09/14/05	09/15/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	72.0 %	50-150			"	"	"	"	
SP-3 (B5I0292-05) Soil Sampled: 09/14/05 10:10 Received: 09/14/05 13:55									
Gasoline Range Hydrocarbons	ND	4.19	mg/kg dry	1	5I13032	09/14/05	09/15/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	72.5 %	50-150			"	"	"	"	
SP-4 (B5I0292-06) Soil Sampled: 09/14/05 10:15 Received: 09/14/05 13:55									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	5I13032	09/14/05	09/15/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	75.7 %	50-150			"	"	"	"	
SP-5 (B5I0292-07) Soil Sampled: 09/14/05 10:20 Received: 09/14/05 13:55									
Gasoline Range Hydrocarbons	ND	4.54	mg/kg dry	1	5I13032	09/14/05	09/15/05	NWTPH-Gx	
Surrogate: 4-BFB (FID)	76.4 %	50-150			"	"	"	"	

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Sandra Yakamovich

Sandra Yakamovich, Project Manager

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Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-1 (B5I0292-01) Soil Sampled: 09/14/05 09:30 Received: 09/14/05 13:55									
Lead	1.81	0.500	mg/kg dry	1	5115019	09/15/05	09/16/05	EPA 6020	
DP-2 (B5I0292-02) Soil Sampled: 09/14/05 09:45 Received: 09/14/05 13:55									
Lead	1.98	0.500	mg/kg dry	1	5115019	09/15/05	09/16/05	EPA 6020	
SP-1 (B5I0292-03) Soil Sampled: 09/14/05 10:00 Received: 09/14/05 13:55									
Lead	5.21	0.500	mg/kg dry	1	5115019	09/15/05	09/16/05	EPA 6020	
SP-2 (B5I0292-04) Soil Sampled: 09/14/05 10:05 Received: 09/14/05 13:55									
Lead	7.43	0.500	mg/kg dry	1	5115019	09/15/05	09/16/05	EPA 6020	
SP-3 (B5I0292-05) Soil Sampled: 09/14/05 10:10 Received: 09/14/05 13:55									
Lead	14.7	0.500	mg/kg dry	1	5115019	09/15/05	09/16/05	EPA 6020	
SP-4 (B5I0292-06) Soil Sampled: 09/14/05 10:15 Received: 09/14/05 13:55									
Lead	8.90	0.500	mg/kg dry	1	5115019	09/15/05	09/16/05	EPA 6020	
SP-5 (B5I0292-07) Soil Sampled: 09/14/05 10:20 Received: 09/14/05 13:55									
Lead	19.0	0.500	mg/kg dry	1	5115019	09/15/05	09/16/05	EPA 6020	

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Sandra Yakamavich, Project Manager

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Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-1 (B5I0292-01) Soil Sampled: 09/14/05 09:30 Received: 09/14/05 13:55									
Dry Weight	92.8	1.00	%	1	5I15044	09/15/05	09/16/05	BSOPSPL003R08	
DP-2 (B5I0292-02) Soil Sampled: 09/14/05 09:45 Received: 09/14/05 13:55									
Dry Weight	93.2	1.00	%	1	5I15044	09/15/05	09/16/05	BSOPSPL003R08	
SP-1 (B5I0292-03) Soil Sampled: 09/14/05 10:00 Received: 09/14/05 13:55									
Dry Weight	90.0	1.00	%	1	5I15044	09/15/05	09/16/05	BSOPSPL003R08	
SP-2 (B5I0292-04) Soil Sampled: 09/14/05 10:05 Received: 09/14/05 13:55									
Dry Weight	95.9	1.00	%	1	5I16024	09/16/05	09/16/05	BSOPSPL003R08	
SP-3 (B5I0292-05) Soil Sampled: 09/14/05 10:10 Received: 09/14/05 13:55									
Dry Weight	94.8	1.00	%	1	5I15044	09/15/05	09/16/05	BSOPSPL003R08	
SP-4 (B5I0292-06) Soil Sampled: 09/14/05 10:15 Received: 09/14/05 13:55									
Dry Weight	95.4	1.00	%	1	5I15044	09/15/05	09/16/05	BSOPSPL003R08	
SP-5 (B5I0292-07) Soil Sampled: 09/14/05 10:20 Received: 09/14/05 13:55									
Dry Weight	93.1	1.00	%	1	5I15044	09/15/05	09/16/05	BSOPSPL003R08	

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Sandra Yakamavich, Project Manager

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Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

BTEX and MTBE by EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DP-1 (B5I0292-01) Soil Sampled: 09/14/05 09:30 Received: 09/14/05 13:55									
Benzene	ND	0.0300	mg/kg dry	1	5I13032	09/14/05	09/15/05	EPA 8021B	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	53-142			"	"	"	"	
DP-2 (B5I0292-02) Soil Sampled: 09/14/05 09:45 Received: 09/14/05 13:55									
Benzene	ND	0.0259	mg/kg dry	1	5I13032	09/14/05	09/15/05	EPA 8021B	
Toluene	ND	0.0432	"	"	"	"	"	"	
Ethylbenzene	ND	0.0432	"	"	"	"	"	"	
Xylenes (total)	ND	0.0864	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0864	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	53-142			"	"	"	"	
SP-1 (B5I0292-03) Soil Sampled: 09/14/05 10:00 Received: 09/14/05 13:55									
Benzene	ND	0.0300	mg/kg dry	1	5I13032	09/14/05	09/15/05	EPA 8021B	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	53-142			"	"	"	"	
SP-2 (B5I0292-04) Soil Sampled: 09/14/05 10:05 Received: 09/14/05 13:55									
Benzene	ND	0.0270	mg/kg dry	1	5I13032	09/14/05	09/15/05	EPA 8021B	
Toluene	ND	0.0450	"	"	"	"	"	"	
Ethylbenzene	ND	0.0450	"	"	"	"	"	"	
Xylenes (total)	ND	0.0901	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0901	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	100 %	53-142			"	"	"	"	

North Creek Analytical - Bothell

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Sandra Yakamavich

Sandra Yakamavich, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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907.563.9200 fax 907.563.9210

Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

BTEX and MTBE by EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-3 (B5I0292-05) Soil Sampled: 09/14/05 10:10 Received: 09/14/05 13:55									
Benzene	ND	0.0251	mg/kg dry	1	5113032	09/14/05	09/15/05	EPA 8021B	
Toluene	ND	0.0419	"	"	"	"	"	"	
Ethylbenzene	ND	0.0419	"	"	"	"	"	"	
Xylenes (total)	ND	0.0838	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0838	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	53-142			"	"	"	"	
SP-4 (B5I0292-06) Soil Sampled: 09/14/05 10:15 Received: 09/14/05 13:55									
Benzene	ND	0.0300	mg/kg dry	1	5113032	09/14/05	09/15/05	EPA 8021B	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	53-142			"	"	"	"	
SP-5 (B5I0292-07) Soil Sampled: 09/14/05 10:20 Received: 09/14/05 13:55									
Benzene	ND	0.0272	mg/kg dry	1	5113032	09/14/05	09/15/05	EPA 8021B	
Toluene	ND	0.0454	"	"	"	"	"	"	
Ethylbenzene	ND	0.0454	"	"	"	"	"	"	
Xylenes (total)	ND	0.0907	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0907	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	53-142			"	"	"	"	

North Creek Analytical - Bothell

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Sandra Yakamavich

Sandra Yakamavich, Project Manager

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Environmental Laboratory Network

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907.563.9200 fax 907.563.9210

Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

Volatile Petroleum Products by NWTPH-Gx - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5I13032: Prepared 09/14/05 Using EPA 5030B (MeOH)									
Blank (5I13032-BLK1)									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg						
Surrogate: 4-BFB (FID)	2.12		"	3.00		70.7	50-150		
LCS (5I13032-BS1)									
Gasoline Range Hydrocarbons	46.0	5.00	mg/kg	50.0		92.0	75-125		
Surrogate: 4-BFB (FID)	2.69		"	3.00		89.7	50-150		
LCS Dup (5I13032-BSD1)									
Gasoline Range Hydrocarbons	48.8	5.00	mg/kg	50.0		97.6	75-125	5.91	25
Surrogate: 4-BFB (FID)	2.82		"	3.00		94.0	50-150		
Matrix Spike (5I13032-MS1) Source: B5I0228-03									
Gasoline Range Hydrocarbons	45.1	5.00	mg/kg dry	50.7	1.08	86.8	42-125		
Surrogate: 4-BFB (FID)	2.74		"	3.04		90.1	50-150		
Matrix Spike Dup (5I13032-MSD1) Source: B5I0228-03									
Gasoline Range Hydrocarbons	44.9	5.00	mg/kg dry	50.7	1.08	86.4	42-125	0.444	40
Surrogate: 4-BFB (FID)	2.75		"	3.04		90.5	50-150		

North Creek Analytical - Bothell

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Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5I15019: Prepared 09/15/05 Using EPA 3050B										
Blank (5I15019-BLK1)										
Lead	ND	0.500	mg/kg							
LCS (5I15019-BS1)										
Lead	35.0	0.500	mg/kg	39.2		89.3	80-120			
LCS Dup (5I15019-BSD1)										
Lead	36.8	0.500	mg/kg	40.0		92.0	80-120	5.01	20	
Matrix Spike (5I15019-MS1)										
					Source: B5I0292-03					
Lead	42.1	0.500	mg/kg dry	40.8	5.21	90.4	29-162			
Matrix Spike Dup (5I15019-MSD1)										
					Source: B5I0292-03					
Lead	43.5	0.500	mg/kg dry	44.0	5.21	87.0	29-162	3.27	30	
Post Spike (5I15019-PS1)										
					Source: B5I0292-03					
Lead	0.110		ug/ml	0.100	0.00966	100	75-125			

North Creek Analytical - Bothell

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Redmond, WA/USA 98052

Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch SI15044: Prepared 09/15/05 Using Dry Weight								
Blank (SI15044-BLK1)								
Dry Weight	100	1.00	%					
Batch SI16024: Prepared 09/16/05 Using Dry Weight								
Blank (SI16024-BLK1)								
Dry Weight	99.8	1.00	%					

North Creek Analytical - Bothell

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Delta Environmental
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Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

BTEX and MTBE by EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch SI13032: Prepared 09/14/05 Using EPA 5030B (MeOH)

Blank (SI13032-BLK1)

Benzene	ND	0.0300	mg/kg							
Toluene	ND	0.0500	"							
Ethylbenzene	ND	0.0500	"							
Xylenes (total)	ND	0.100	"							
Methyl tert-butyl ether	ND	0.100	"							
Surrogate: 4-BFB (PID)	3.01		"	3.00		100	53-142			

LCS (SI13032-BS2)

Benzene	1.43	0.0300	mg/kg	1.50		95.3	75-125			
Toluene	1.40	0.0500	"	1.50		93.3	75-125			
Ethylbenzene	1.43	0.0500	"	1.50		95.3	75-125			
Xylenes (total)	4.28	0.100	"	4.50		95.1	75-125			
Methyl tert-butyl ether	1.36	0.100	"	1.50		90.7	75-125			
Surrogate: 4-BFB (PID)	3.05		"	3.00		102	53-142			

LCS Dup (SI13032-BSD2)

Benzene	1.47	0.0300	mg/kg	1.50		98.0	75-125	2.76	25	
Toluene	1.42	0.0500	"	1.50		94.7	75-125	1.42	25	
Ethylbenzene	1.45	0.0500	"	1.50		96.7	75-125	1.39	25	
Xylenes (total)	4.36	0.100	"	4.50		96.9	75-125	1.85	25	
Methyl tert-butyl ether	1.41	0.100	"	1.50		94.0	75-125	3.61	25	
Surrogate: 4-BFB (PID)	3.14		"	3.00		105	53-142			

Matrix Spike (SI13032-MS2)

Source: B510228-03

Benzene	1.44	0.0300	mg/kg dry	1.52	ND	94.7	45-125			
Toluene	1.40	0.0500	"	1.52	0.0114	91.4	55-125			
Ethylbenzene	1.43	0.0500	"	1.52	0.00542	93.7	53-132			
Xylenes (total)	4.29	0.100	"	4.56	0.0204	93.6	59-125			
Methyl tert-butyl ether	1.30	0.100	"	1.52	ND	85.5	52-127			
Surrogate: 4-BFB (PID)	3.22		"	3.04		106	53-142			

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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Delta Environmental
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Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

BTEX and MTBE by EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5I13032: Prepared 09/14/05 Using EPA 5030B (MeOH)

Matrix Spike Dup (5I13032-MSD2)

Source: B5I0228-03

Benzene	1.53	0.0300	mg/kg dry	1.52	ND	101	45-125	6.06	40	
Toluene	1.49	0.0500	"	1.52	0.0114	97.3	55-125	6.23	40	
Ethylbenzene	1.53	0.0500	"	1.52	0.00542	100	53-132	6.76	40	
Xylenes (total)	4.59	0.100	"	4.56	0.0204	100	59-125	6.76	40	
Methyl tert-butyl ether	1.44	0.100	"	1.52	ND	94.7	52-127	10.2	40	
Surrogate: 4-BFB (PID)	3.12		"	3.04		103	53-142			

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

North Creek Analytical, Inc.
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Project: BP/GEM Facility No: 5810
Project Number: BP/GEM Work Release No: 135329
Project Manager: Bryan Taylor

Reported:
09/16/05 16:29

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

North Creek Analytical - Bothell

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Sandra Yakarnavich

Sandra Yakarnavich, Project Manager

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Environmental Laboratory Network

Page 12 of 12



Chain of Custody Record

Page 1 of 1

Project Name: Routine Ground Water Sampling
BP BU/AR Region/Enfos Segment: West Coast/Retail
State or Lead Regulatory Agency: Washington Dept. of Ecology
Requested Due Date (mm/dd/yy): 24-hr TAT

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: North Creek Analytical, Inc.	BP/AR Facility No.: 5810	Consultant/Contractor: Delta Environmental Consultants
Address: 11720 North Creek Parkway N., Suite 400	BP/AR Facility Address: 2101 W 69th Street	Address: 4006 148th Avenue NE
Bothell, Washington 98011-8244	Site Lat/Long: Bremerton, WA	Redmond, Washington 98052
Lab PM: Rob Greer	California Global ID No.: NA	Consultant/Contractor Project No.: G0BN1RR531
Tele/Fax: (425) 420-9200/(425) 420-9210	Enfos Project No.: G0BN1-0001/WR135329	Consultant/Contractor PM: Bryan Taylor
BP/AR PM Contact: Scott Hooton	Provision of RCOP (circle one)	Tele/Fax: (425) 882-3528/(425) 869-1892
Address: 295 SW 41st Street, Bldg. 13, Ste N	Phase/WBS: 02-Raze and Rebuild	Report Type & QC Level: BP Level 1
Renton, WA 98055	Sub Phase/Task: 03-Analytical Costs	E-mail EDD To: btaylor@deltaenv.com
Tele/Fax: (425) 251-0689/(425) 251-0736	Cost Element:	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis							Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	NWTPH-Ck	BTEX(8021B)	BTEX+MTBE(8021B)*	EDC(8260B)	EDB(8011B)	NWTPH-Dx	Total Lead	
1	DP-1	9:30	7/14/05	X			3	1			2	X	X					X			01
2	DP-2	9:45	7/14/05	X			3	1			2	X	X					X			02
3	SP-1	10:00	7/14/05	X			3	1			2	X	X					X			03
4	SP-2	10:05	7/14/05	X			3	1			2	X	X					X			04
5	SP-3	10:10	7/14/05	X			3	1			2	X	X					X			05
6	SP-4	10:15	7/14/05	X			3	1			2	X	X					X			06
7	SP-5	10:20	7/14/05	X			3	1			2	X	X					X			07
8	Trip Blank	1200	7/14/05	X																	08
9																					
10																					

Revised Chain of Custody

Revised Chain of Custody

Sampler's Name: Sarah Miller	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Delta Environmental	Sarah Miller	7/14/05	1:55	Delwitt/ARMA/NOA	7/14/05	13:55
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:			
*If positive for MTBE or if MTBE is not detected above an MRL exceeding 20ug/L, then analyze by 8260B for confirmation MTBE.			
Custody Seals In Place Yes No	Temp Blank Yes No	Cooler Temperature on Receipt 51 °F/C	Trip Blank Yes No

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04



Chain of Custody Record

B5-002-10

Project Name: Routine Ground Water Sampling
BP BU/AR Region/Enfos Segment: West Coast/Retail
State or Lead Regulatory Agency: Washington Dept. of Ecology
Requested Due Date (mm/dd/yy): 24-hr TAT

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: North Creek Analytical, Inc.	BP/AR Facility No.: 5810	Consultant/Contractor: Delta Environmental Consultants
Address: 11720 North Creek Parkway N., Suite 400	BP/AR Facility Address: 2101 W 69th Street	Address: 4006 148th Avenue NE
Bothell, Washington 98011-8244	Site Lat/Long: Bremerton, WA	Redmond, Washington 98052
Lab PM: Rob Greer	California Global ID No.: NA	Consultant/Contractor Project No.: G0BN1RR531
Tele/Fax: (425) 420-9200/(425) 420-9210	Enfos Project No.: G0BN1-0001/WR135329	Consultant/Contractor PM: Bryan Taylor
BP/AR PM Contact: Scott Hooton	Provision of RCOP (circle one)	Tele/Fax: (425) 882-3528/(425) 869-1892
Address: 295 SW 41st Street, Bldg. 13, Ste N	Phase WBS: 02-Raze and Rebuild	Report Type & QC Level: BP Level 1
Renton, WA 98055	Sub Phase/Task: 03-Analytical Costs	E-mail EDD To: btaylor@deltaenv.com
Tele/Fax: (425) 251-0689/(425) 251-0736	Cost Element:	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis								Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	NWTPH-Gx	BTEX(8021B)	BTEX+MTBE(8021B)*	EDC(8260B)	EDB(8011B)	NWTPH-Dx	Total Lead	Dissolved Lead	
1	DP-1	9:30	9/14/05	X			3	1			2	X	X					X				
2	DP-2	9:45	9/14/05	X			3	1			2	X	X					X				
3	SP-1	10:00	9/14/05	X			3	1			2	X	X					X				
4	SP-2	10:05	9/14/05	X			3	1			2	X	X					X				
5	SP-3	10:10	9/14/05	X			3	1			2	X	X					X				
6	SP-4	10:15	9/14/05	X			3	1			2	X	X					X				
7	SP-5	10:20	9/14/05	X			3	1			2	X	X					X				
8			9/14/05	X																		
9																						
10																						

Sampler's Name: Sarah Miller	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Delta Environmental	Sarah Miller	9/14/05	1:55	Delta Environmental / NCA	9/14/05	13:55
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

*If positive for MTBE or if MTBE is not detected above an MRL exceeding 20ug/l, then analyze by 8260B for confirmation MTBE.

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 5-1 °F/C Trip Blank Yes No

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04