GROUND WATER MONITORING REPORT
Atlantic Richfield Company
Third and Fourth Quarters of 2006
August 21, 2006

Delta Environmental Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

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Former ARCO Facility No.:	5508
Address:	1306 112th Street SW, Everett, WA
Atlantic Richfield Company Environmental Business Manager:	Scott Hooton
Consulting Co./Contact Person:	Delta Environmental Consultants, Inc./Matt Miller
Consultant Project Number:	G0BK4
Primary Agency/Regulatory ID No.:	Washington State Department of Ecology

WORK PERFORMED DURING THE THIRD AND FOURTH QUARTERS OF 2006:

- Delta conducted semi-annual ground water monitoring and sampling on July 27, 2006.
- Delta prepared this semi-annual ground water monitoring report.

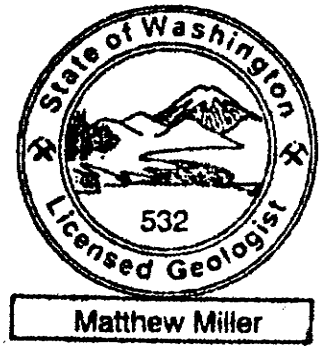
WORK SCHEDULED FOR THE FIRST AND SECOND QUARTERS OF 2007:

- Delta will conduct semi-annual ground water monitoring and sampling.
- Delta will prepare a semi-annual ground water monitoring report.

Current Phase of Project:	Monitoring	**(Phase I, Addt'l Assmnt RAP/CAP, Remed., etc)**
Frequency of Ground Water Sampling and Monitoring:	Semi-annual	**(Quarterly, etc)**
Are LPH Present On-Site:	No	**(Yes/No)**
LPH Recovered this Reporting Period:	None	**(Gallons)**
Cumulative LPH Recovered to Date:	None	**(Gallons)**
Amount of Soil Removed to Date:	2.66 tons (July 2004)	**(Cubic yards/tons)**
Current Remediation Techniques:	Natural Attenuation	**(SVES/Sparge/Pump and Treat)**
Approximate Depth to Ground Water:	5.40 to 7.81	**(Feet)**
Ground Water Gradient:	Southwest	**(Direction)**
	0.03 ft/linear ft	**(Magnitude)**

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's client and the Department of Ecology. Delta will not and cannot be liable for unauthorized reliance by any other party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

Matt Miller
Project Manager



Attachments:
- Table 1 - Summary of Ground Water Data
- Figure 1 - Site Location Map
- Figure 2 – Site Aerial Map
- Figure 3 - Inferred Water Table Contour Map – 01/24/06
- Figure 4 – MW-3 Hydrocarbon Concentrations and Water Elevations vs. Time
- Test America Analytical Lab Report
- Field Data Sheets

cc: John Wietfeld, Washington Department of Ecology, NW Region

TABLE 1
SUMMARY OF GROUND WATER DATA
FORMER ARCO FACILITY NO. 5508
1306 112TH STREET SW
EVERETT, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-1	99.31	06/18/04	4.95	94.36	2.3	<0.500	<0.500	<0.500	<1.00	<5.00	<0.010	<1.00	<50.0	NA	NA	51.4	<1.00	P
MW-1	99.31	08/30/04	5.02	94.29	0.9	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	<1.00	<1.00	P
MW-1	99.31	11/10/04	4.75	94.56	1.8	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	NA	NA	1.24	<1.00	P
MW-1	99.31	02/23/05	4.51	94.80	2.6	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	NA	NA	<1.00	<1.00	P
MW-1	99.31	08/11/05	4.66	94.65	2.3	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	<1.00	<1.00	NP
MW-1	99.31	01/24/06	3.95	95.36	3.2	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	NA	NA	<1.00	<1.00	NP
MW-1	99.31	07/27/06	5.40	93.91	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	98.80	06/18/04	4.97	93.83	2.4	<0.500	<0.500	<0.500	<1.00	<5.00	<0.010	<1.00	<50.0	NA	NA	13.8	<1.00	P
MW-2	98.80	08/30/04	5.16	93.64	1	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	<1.00	<1.00	P
MW-2	98.80	11/10/04	4.72	94.08	0.8	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	NA	NA	<1.00	<1.00	P
MW-2	98.80	02/23/05	4.65	94.15	1.2	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	NA	NA	<1.00	<1.00	P
MW-2	98.80	08/11/05	4.76	94.04	1.6	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	<1.00	<1.00	NP
MW-2	98.80	10/04/05																ABANDONED
MW-3	97.76	06/18/04	7.01	90.75	2.1	1.01	0.997	5.49	16.6	<5.00	<0.010	<1.00	1080	NA	NA	2.1	<1.00	P
MW-3	97.76	08/30/04	7.02	90.74	NM	2.44	1.22	5.27	14.5	<1.00 (a)	NA	NA	1250	NA	NA	<1.00	<1.00	P
MW-3	97.76	11/10/04	6.9	90.86	0.9	<0.200	<0.500	0.970	<1.00	<2.00	NA	NA	964	NA	NA	<1.00	<1.00	P
MW-3	97.76	02/23/05	6.90	90.86	1.2	<0.200	<0.500	2.94	<1.00	<2.00	NA	NA	1050	NA	NA	<1.00	<1.00	P
MW-3	97.76	08/11/05	6.76	91.00	2.3	0.581	<0.500	1.50	1.04	<1.00	NA	NA	537	NA	NA	<1.00	<1.00	NP
MW-3	97.76	01/24/06	6.71	91.05	3.0	<0.500	0.59	5.26	8.59	<1.00	NA	NA	1,050	NA	NA	<1.00	<1.00	NP
MW-3	97.76	07/27/06	7.81	89.95	2.7	0.81	<0.500	<0.500	<1.00	<1.00	NA	NA	823	NA	NA	<1.00	NA	NP
MW-4	98.03	06/18/04	7.79	90.24	0.9	1.75	<0.500	<0.500	<1.00	<5.00	<0.010	<1.00	107	NA	NA	31.8	<1.00	P
MW-4	98.03	08/30/04	7.98	90.05	0.8	2.72	<0.500	0.583	1.91	<1.00 (a)	NA	NA	268	NA	NA	<1.00	<1.00	P
MW-4	98.03	11/10/04	7.71	90.32	0.8	0.63	<0.500	<0.500	<1.00	<2.00	NA	NA	120	NA	NA	<1.00	<1.00	P
MW-4	98.03	02/23/05	7.45	90.58	2.1	1.83	<0.500	<0.500	<1.00	<2.00	NA	NA	318	NA	NA	<1.00	<1.00	P
MW-4	98.03	08/11/05	7.85	90.18	2.1	1.70	<0.500	<0.500	<1.00	<2.00	NA	NA	339	NA	NA	<1.00	<1.00	NP
MW-4	98.03	01/24/06	7.60	90.43	4.0	0.66	<0.500	<0.500	<3.00	<1.00	NA	NA	383	NA	NA	<1.00	<1.00	NP
MW-4	98.03	07/27/06	6.48	91.55	3.7	<0.500	<0.500	1.67	<1.00	<1.00	NA	NA	460	NA	NA	<1.00	NA	NP

TABLE 1
SUMMARY OF GROUND WATER DATA
FORMER ARCO FACILITY NO. 5508
1306 112TH STREET SW
EVERETT, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments

Notes: Benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (MTBE) analyzed by EPA Method 8021B or EPA Method 8260B. Samples with MTBE detections above the laboratory method reporting limit using 821B were re-analyzed using 8260B to confirm the MTBE concentration.

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

TPH-D = Diesel-range hydrocarbons analyzed by the Northwest method NWTPH-Dx.

TPH-O = Oil-range hydrocarbons analyzed by the Northwest method NWTPH-Dx.

1,2-Dibromoethane (EDB) analyzed by EPA Method 8011.

1,2-Dichloroethane (EDC) analyzed by EPA Method 8260B.

Total and dissolved lead analyzed by EPA Method 6020.

ug/L = Micrograms per liter.

mg/L = Milligrams per liter.

NA = Not analyzed.

a = MTBE false positive detected by EPA method 8021B and confirmed below method reporting limits by EPA method 8260B.

*TOC = Top of casing elevations and ground water elevations referenced to a site specific benchmark, assigned an elevation of 100.00 feet.

NP = Non-purge sampling methods were used.

P = Purge sampling methods were utilized.

<1.00 = Concentrations were not detected above the stated laboratory reporting limit.

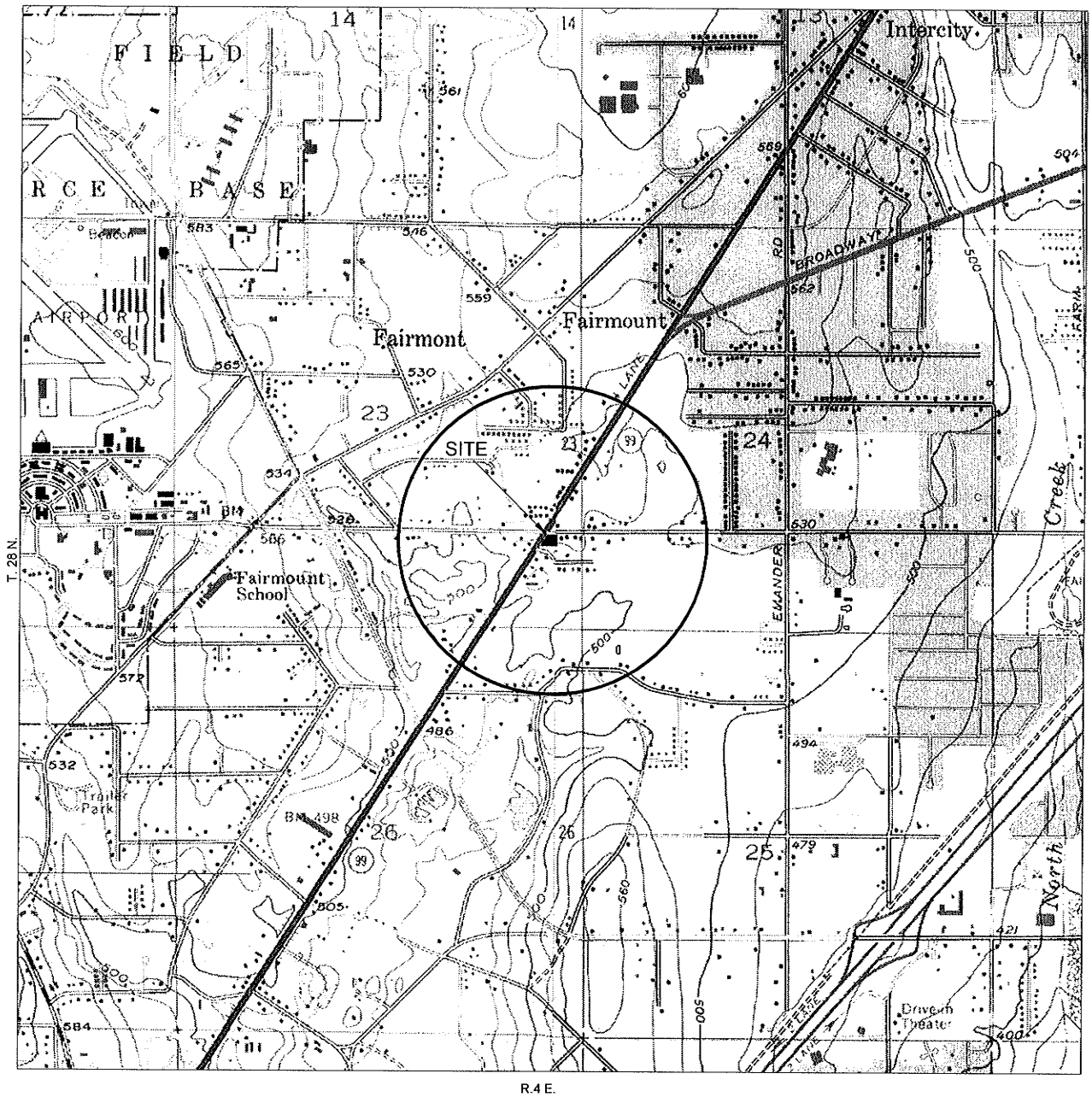
MW-2 was abandoned during the fourth quarter of 2005.

GW elevation = Ground water elevation as calculated by TOC elevation – depth to water.

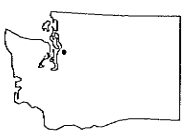
Sampling Frequency:

1Q 2006: MW-1, MW-3, MW-4

3Q 2006: MW-3, MW-4



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
MUKILTEO & EVERETT, WA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1968 &1973



QUADRANGLE LOCATION

SCALE 1:24,000

FIGURE 1

SITE LOCATION MAP

ARCO FACILITY NO. 5508
1306 112TH STREET SW
EVERETT, WA.

PROJECT NO. AM85-996	DRAWN BY M.L. 4/2/03
FILE NO. AM85996A	PREPARED BY C.K.
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

GENERAL NOTES:
AERIAL PHOTOGRAPH
DATED 6/13/02

N

0 150 FT

SCALE

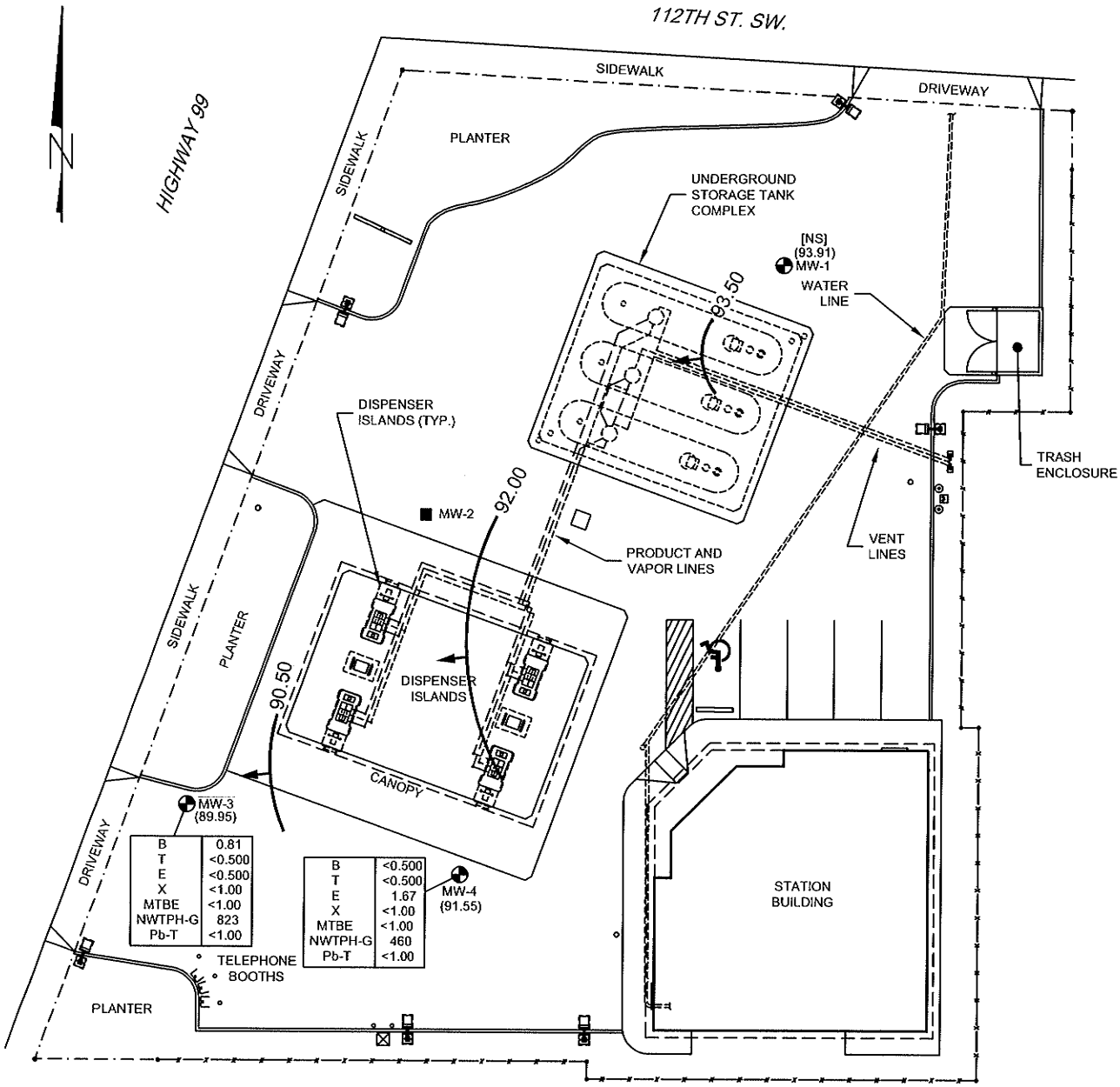
FIGURE 2

SITE AERIAL MAP

ARCO FACILITY NO. 5508
1306 112TH STREET SW
EVERETT, WA.

PROJECT NO. -	DRAWN BY M.L. 6/15/05
FILE NO. AM04308D	PREPARED BY SBM
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND:

MW-4	PROPOSED MONITORING WELL LOCATION
MW-2	ABANDONED WELL LOCATION
(93.91)	GROUND WATER ELEVATION IN FEET REFERENED TO A SITE SPECIFIC BENCHMARK
93.50	INFERRED WATER TABLE CONTOUR IN FEET REFERENED TO A SITE SPECIFIC BENCHMARK (CONTOUR INTERVAL: 1.50 FT)
	INFERRED GROUND WATER FLOW DIRECTION (GROUNDWATER GRADIENT: 0.03 FT/LINEAR FT)
NS	NOT SAMPLED

GROUNBDWATER DATA

B	<0.500	BENZENE IN MICROGRAMS PER LITER (ug/L)
T	<0.500	TOLUENE IN ug/L
E	1.67	ETHYLBENZENE IN ug/L
X	<1.00	XYLENES IN ug/L
MTBE	<1.00	METHYL TERT-BUTYL ETHER IN ug/L
NWTPH-G	460	GASOLINE-RANGE HYDROCARBONS IN ug/L
Pb-T	<1.00	TOTAL LEAD IN ug/L

0 30 FT

SCALE

SOURCE: IN-FORM, INC. AS-BUILT CAD FILE DATED 8/21/02

FIGURE 3

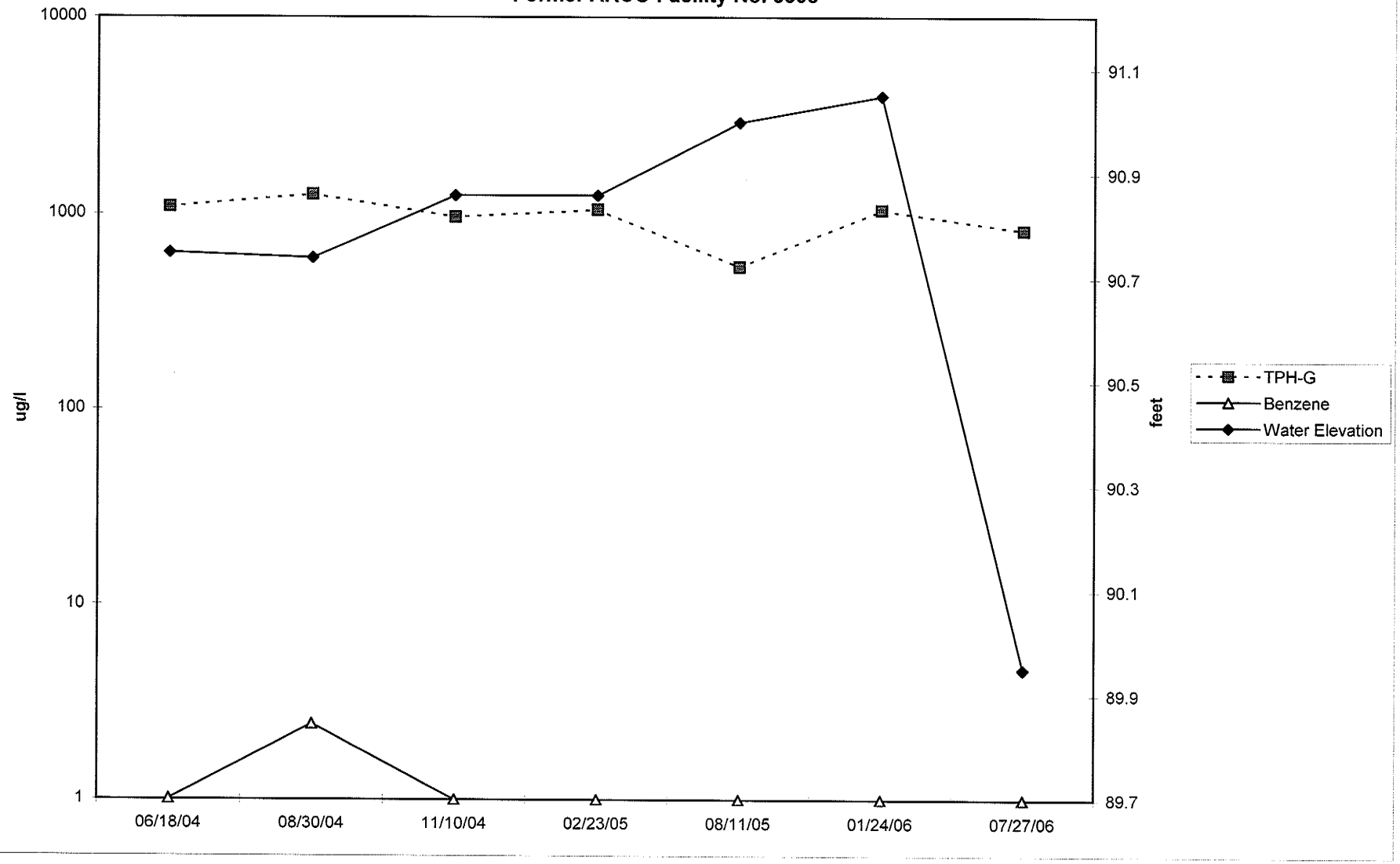
INFERRED WATER TABLE CONTOUR MAP 7/27/06

ARCO FACILITY NO. 5508
1306 112TH STREET SW
EVERETT, WA.

PROJECT NO. G0BK4	DRAWN BY KYM 8/23/06
FILE NO. AR-5508A -3Q06	PREPARED BY SBM
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

Figure 4
MW-3 Hydrocarbon Concentrations and Water Elevations vs. Time
Former ARCO Facility No. 5508



TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

August 14, 2006

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

RE: BP/GEM Facility No: 5508

Enclosed are the results of analyses for samples received by the laboratory on 07/31/06 16:40. The following list is a summary of the Work Orders contained in this report, generated on 08/14/06 15:50.

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

Work Order	Project	ProjectNumber
BPH0005	BP/GEM Facility No: 5508	BP/GEM Work Release No: W

TestAmerica - Seattle, WA

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

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ANALYTICAL TESTING CORPORATION

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BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Delta Environmental	Project Name:	**BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3-7.81	BPH0005-01	Water	07/27/06 11:30	07/31/06 16:40
MW-4-6.48	BPH0005-02	Water	07/27/06 11:00	07/31/06 16:40
trip blank	BPH0005-03	Water	07/27/06 12:00	07/31/06 16:40

TestAmerica - Seattle, WA

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

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.

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Delta Environmental	Project Name:	**BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

Volatile Petroleum Products by NWTPH-Gx

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0005-01 (MW-3-7.81)		**Water**			**Sampled: 07/27/06 11:30**					
Gasoline Range Hydrocarbons	NWTPH-Gx	**823**	-----	50.0	ug/l	1x	6H07022	08/07/06 10:05	08/07/06 21:54	
Surrogate(s): 4-BFB (FID)			*108%*		*58 - 144 %*	"			"	
BPH0005-02 (MW-4-6.48)		**Water**			**Sampled: 07/27/06 11:00**					
Gasoline Range Hydrocarbons	NWTPH-Gx	**460**	-----	50.0	ug/l	1x	6H07022	08/07/06 10:05	08/07/06 22:24	
Surrogate(s): 4-BFB (FID)			*109%*		*58 - 144 %*	"			"	

TestAmerica - Seattle, WA

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Delta Environmental	Project Name: **BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number: BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager: Matt Miller	08/14/06 15:50

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0005-01 (MW-3-7.81)		**Water**				**Sampled: 07/27/06 11:30**				
Lead	EPA 6020	ND	-----	0.00100	mg/l	1x	6H02039	08/02/06 14:31	08/07/06 10:41	
BPH0005-02 (MW-4-6.48)		**Water**				**Sampled: 07/27/06 11:00**				
Lead	EPA 6020	ND	-----	0.00100	mg/l	1x	6H02039	08/02/06 14:31	08/07/06 10:58	

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.

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

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Delta Environmental	Project Name:	**BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPH0005-01 (MW-3-7.81)		**Water**			**Sampled: 07/27/06 11:30**					
Benzene	EPA 8260B	**0.810**	-----	0.500	ug/l	1x	6H03048	08/02/06 10:34	08/02/06 19:52	
Ethylbenzene	"	ND	-----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	-----	1.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*100%*		*70 - 130 %*	"			"	
Toluene-d8			*105%*		*75 - 125 %*	"			"	
4-BFB			*84.0%*		*75 - 125 %*	"			"	
BPH0005-02 (MW-4-6.48)		**Water**			**Sampled: 07/27/06 11:00**					
Benzene	EPA 8260B	ND	-----	0.500	ug/l	1x	6H03048	08/02/06 10:34	08/02/06 20:21	
Ethylbenzene	"	**1.67**	-----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	-----	1.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*94.5%*		*70 - 130 %*	"			"	
Toluene-d8			*104%*		*75 - 125 %*	"			"	
4-BFB			*85.0%*		*75 - 125 %*	"			"	
BPH0005-03 (trip blank)		**Water**			**Sampled: 07/27/06 12:00**					
Benzene	EPA 8260B	ND	-----	0.500	ug/l	1x	6H04016	08/04/06 11:34	08/04/06 14:11	
Ethylbenzene	"	ND	-----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	-----	1.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*121%*		*70 - 130 %*	"			"	
Toluene-d8			*99.5%*		*75 - 125 %*	"			"	
4-BFB			*100%*		*75 - 125 %*	"			"	

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

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4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H07022 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H07022-BLK1)								Extracted: 08/07/06 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	08/07/06 14:36	
Surrogate(s): 4-BFB (FID)		*Recovery: 77.5%*			*Limits: 58-144%*	"							*08/07/06 14:36*	
LCS (6H07022-BS1)								Extracted: 08/07/06 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	945	---	50.0	ug/l	1x	--	1000	94.5%	(80-120)	--	--	08/07/06 13:30	
Surrogate(s): 4-BFB (FID)		*Recovery: 87.5%*			*Limits: 58-144%*	"							*08/07/06 13:30*	
Duplicate (6H07022-DUP1)					QC Source: BPH0091-01			Extracted: 08/07/06 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR	(25)	08/07/06 15:36	
Surrogate(s): 4-BFB (FID)		*Recovery: 83.5%*			*Limits: 58-144%*	"							*08/07/06 15:36*	
Duplicate (6H07022-DUP2)					QC Source: BPH0090-04			Extracted: 08/07/06 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR	(25)	08/08/06 05:21	
Surrogate(s): 4-BFB (FID)		*Recovery: 80.5%*			*Limits: 58-144%*	"							*08/08/06 05:21*	
Matrix Spike (6H07022-MS1)					QC Source: BPH0091-01			Extracted: 08/07/06 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	977	---	50.0	ug/l	1x	ND	1000	97.7%	(75-131)	--	--	08/07/06 16:55	
Surrogate(s): 4-BFB (FID)		*Recovery: 86.0%*			*Limits: 58-144%*	"							*08/07/06 16:55*	
Matrix Spike Dup (6H07022-MSD1)					QC Source: BPH0091-01			Extracted: 08/07/06 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	930	---	50.0	ug/l	1x	ND	1000	93.0%	(75-131)	4.93%	(25)	08/07/06 17:25	
Surrogate(s): 4-BFB (FID)		*Recovery: 89.5%*			*Limits: 58-144%*	"							*08/07/06 17:25*	

TestAmerica - Seattle, WA

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Delta Environmental	Project Name:	**BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H02039 **Water Preparation Method: EPA 3020A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H02039-BLK1)								Extracted: 08/02/06 14:31						
Lead	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	08/07/06 09:49	
LCS (6H02039-BS1)								Extracted: 08/02/06 14:31						
Lead	EPA 6020	0.0832	---	0.00100	mg/l	1x	--	0.0800	104%	(80-120)	--	--	08/07/06 09:55	
Duplicate (6H02039-DUP1)				QC Source: BPG0640-01				Extracted: 08/02/06 14:31						
Lead	EPA 6020	0.00143	---	0.00100	mg/l	1x	0.00141	--	--	--	1.41%	(20)	08/07/06 10:13	
Matrix Spike (6H02039-MS1)				QC Source: BPG0640-01				Extracted: 08/02/06 14:31						
Lead	EPA 6020	0.0837	---	0.00100	mg/l	1x	0.00141	0.0800	103%	(80-120)	--	--	08/07/06 10:07	
Post Spike (6H02039-PS1)				QC Source: BPG0640-01				Extracted: 08/02/06 14:31						
Lead	EPA 6020	0.105	---		ug/ml	1x	0.00141	0.0995	104%	(75-125)	--	--	08/07/06 10:01	

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Delta Environmental	Project Name:	**BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H03048 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H03048-BLK1)								Extracted: 08/02/06 10:34						
Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	08/02/06 14:55	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 92.5%*			*Limits: 70-130%*	"							*08/02/06 14:55*	
Toluene-d8		*106%*			*75-125%*	"							"	
4-BFB		*85.0%*			*75-125%*	"							"	
LCS (6H03048-BS1)								Extracted: 08/02/06 10:34						
Benzene	EPA 8260B	18.4	---	0.500	ug/l	1x	--	20.0	92.0%	(80-120)	--	--	08/02/06 11:53	
Ethylbenzene	"	21.5	---	0.500	"	"	--	"	108%	"	--	--	"	
Methyl tert-butyl ether	"	18.0	---	1.00	"	"	--	"	90.0%	"	--	--	"	
Toluene	"	20.0	---	0.500	"	"	--	"	100%	"	--	--	"	
Total Xylenes	"	58.8	---	1.00	"	"	--	60.0	98.0%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 90.5%*			*Limits: 70-130%*	"							*08/02/06 11:53*	
Toluene-d8		*102%*			*75-125%*	"							"	
4-BFB		*85.5%*			*75-125%*	"							"	
LCS Dup (6H03048-BSD1)								Extracted: 08/02/06 10:34						
Benzene	EPA 8260B	19.4	---	0.500	ug/l	1x	--	20.0	97.0%	(80-120)	5.29%	(20)	08/02/06 12:38	
Ethylbenzene	"	23.1	---	0.500	"	"	--	"	116%	"	7.17%	"	"	
Methyl tert-butyl ether	"	18.6	---	1.00	"	"	--	"	93.0%	"	3.28%	"	"	
Toluene	"	20.8	---	0.500	"	"	--	"	104%	"	3.92%	"	"	
Total Xylenes	"	61.5	---	1.00	"	"	--	60.0	102%	"	4.49%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 90.0%*			*Limits: 70-130%*	"							*08/02/06 12:38*	
Toluene-d8		*102%*			*75-125%*	"							"	
4-BFB		*85.5%*			*75-125%*	"							"	

TestAmerica - Seattle, WA

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

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Delta Environmental	Project Name:	**BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6H04016 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6H04016-BLK1)								Extracted: 08/04/06 10:35						
Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	08/04/06 13:20	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 117%*			*Limits: 70-130%*	"							*08/04/06 13:20*	
Toluene-d8		*98.5%*			*75-125%*	"							"	
4-BFB		*102%*			*75-125%*	"							"	
LCS (6H04016-BS1)								Extracted: 08/04/06 10:35						
Benzene	EPA 8260B	18.7	---	0.500	ug/l	1x	--	20.0	93.5%	(80-120)	--	--	08/04/06 11:54	
Ethylbenzene	"	20.0	---	0.500	"	"	--	"	100%	"	--	--	"	
Methyl tert-butyl ether	"	19.3	---	1.00	"	"	--	"	96.5%	"	--	--	"	
Toluene	"	19.8	---	0.500	"	"	--	"	99.0%	"	--	--	"	
Total Xylenes	"	61.8	---	1.00	"	"	--	60.0	103%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 116%*			*Limits: 70-130%*	"							*08/04/06 11:54*	
Toluene-d8		*103%*			*75-125%*	"							"	
4-BFB		*99.5%*			*75-125%*	"							"	
LCS Dup (6H04016-BSD1)								Extracted: 08/04/06 10:35						
Benzene	EPA 8260B	19.0	---	0.500	ug/l	1x	--	20.0	95.0%	(80-120)	1.59%	(20)	08/04/06 12:20	
Ethylbenzene	"	20.3	---	0.500	"	"	--	"	102%	"	1.49%	"	"	
Methyl tert-butyl ether	"	19.1	---	1.00	"	"	--	"	95.5%	"	1.04%	"	"	
Toluene	"	20.1	---	0.500	"	"	--	"	100%	"	1.50%	"	"	
Total Xylenes	"	61.5	---	1.00	"	"	--	60.0	102%	"	0.487%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 114%*			*Limits: 70-130%*	"							*08/04/06 12:20*	
Toluene-d8		*102%*			*75-125%*	"							"	
4-BFB		*97.5%*			*75-125%*	"							"	

TestAmerica - Seattle, WA

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

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ANALYTICAL TESTING CORPORATION

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BOTHELL, WA 98011-8244
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Delta Environmental	Project Name:	**BP/GEM Facility No: 5508**	
4006 148th Ave NE	Project Number:	BP/GEM Work Release No: WR166445	Report Created:
Redmond, WA/USA 98052	Project Manager:	Matt Miller	08/14/06 15:50

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.

Cherie Howland

Cherie Howland For Sandra Yakamavich, Project Manager

3PH0005

Page ___ of ___

Chain of Custody Record

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): Standard TAT

On-site Time:	1100	Temp:	70
Off-site Time:	1400	Temp:	80
Sky Conditions:	Clear		
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: **Test America**	BP/AR Facility No.: **5508**	Consultant/Contractor: **Delta Environmental Consultants**
Address: **11720 North Creek Parkway N., Suite 400**	BP/AR Facility Address: **1306 112th Street SW, Everett, WA**	Address: **4006 148th Avenue NE**
Bothell, Washington 98011-8244	Site Lat/Long:	**Redmond, Washington 98052**
Lab PM: **Sandra Yakamavich**	California Global ID No.: NA	Consultant/Contractor Project No.: **G0BK4RP63A**
Tele/Fax: (425) 420-9200/(425) 420-9210	Enfos Project No.: **G0BK4-0011/WR166445**	Consultant/Contractor PM: **Matt Miller**
BP/AR PM Contact: Scott Hooton	~~Provision~~ or RCOP (circle one)	Tele/Fax: (425)498-7722/(425)869-1892
Address: 295 SW 41st Street, Bldg. 13, Ste N	Phase/WBS: **04-Monitoring Only**	Report Type & QC Level: BP Level 1
Renton, WA 98055	Sub Phase/Task: **27-Sampling**	E-mail EDD To: mrmiller@deltaenv.com
Tele/Fax: (425) 251-0689/(425) 251-0736	Cost Element: **05-Subcontracted Costs**	Invoice to: ~~Consultant~~ or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: NWTPH-Gx	Requested Analysis: BTEX(8021B)	Requested Analysis: BTEX+MTBE(8021B)*	Requested Analysis: EDC(8260B)	Requested Analysis: EDB(8011B)	Requested Analysis: NWTPH-Dx	Requested Analysis: Total Lead	Requested Analysis: Dissolved Lead	Requested Analysis:	Requested Analysis:	Sample Point Lat/Long and Comments
1	MW3- 7.81	1130	7/31/06		S			5			1	HCl		X		X				X				
2	MW4- 6.48	1100	7/31/06		S			5			1	HCl		X		X				X				
3	temp																							
4	trip																							
5																								
6																								
7																								
8																								
9																								
10																								

Sampler's Name:	Matt Miller	**Relinquished By / Affiliation**	**Date**	**Time**	**Accepted By / Affiliation**	**Date**	**Time**
Sampler's Company:	Delta Environmental	Matt Miller Delta	7/31/06		Francisco Lung, Jr. TA.	7/31/06	1546
Shipment Date:	7/31/06						
Shipment Method:	test America						
Shipment Tracking No:							

Special Instructions: @ lab 1640

*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 X Temp Blank Yes X No Cooler Temperature on Receipt 0.7 °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

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WELL MONITORING & SAMPLING FIELD FORM

Project Name: ARCO Facility # 5508 EVERETT
Project #: G0BK4RP63A
Monitoring/Sampling Date: 07/27/06

Monitoring Well ID: MW-1
Field Personnel: Kevin Hill
Start Time: 1200
Weather Conditions: Sun
Approx Air Temp (F): 72

INITIAL WELL DATA & WELL PURGING INFORMATION

Top of Casing Elevation (ft):	Depth to Water Measuring Technique: WLI
Total Well Depth (ft):	Detection Method of Free Product:
Depth to Water (ft): 5.40	Conversion Factors (casing dia. = gallons/linear ft.) Circle One
Free Product Detected:	0.75"=0.02 1"=0.04 2" = 0.17 3" = 0.37
Depth to Free Product :	4" = 0.66 6" = 1.47 8" = 2.61 12" = 5.88
Casing Diameter (in.): 2	Three Well Purge Volumes (gallons) = 3 X _____ = _____
Quantity of Free Product Bailed (gal):	Method of Collecting Free Product:

Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (decree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						2.1		

Total Purged =	Purge Pumping Rate (approx. gpm or ml/min):	Well Yield: High / Moderate / Low
Purge Method (circle one):	PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other	
Water Level After Purging (TOC - ft.):	Decontamination Methods:	
Instrument Type & Number:	Instrument Notes:	
Instrument Calibration Date & Time:		

WELL CONDITION

Casing (circle one):	Stainless Steel (SS) Carbon Steel (PVC) Other:		
Casing Condition:	(OK) / NA / Needs Repairs / Repaired	Lock Condition:	(OK) / NA / Needs Repairs / Repaired
Cap Condition:	(OK) / NA / Needs Repairs / Repaired	Inner Casing Condition:	(OK) / NA / Needs Repairs / Repaired
Paint Condition:	(OK) / NA / Needs Repairs / Repaired	Monument Condition:	OK / NA / Needs Repairs / (Repaired)

Recommended Well Repairs: Added lock

SAMPLING INFORMATION / DATA

Date Sampled: 07/27/06	QA/QC Sample (circle one): YES / NO	Water Chemistry Sample: YES / NO
Time Sampled:	Sampling Method (circle One): SS Bailer Poly Bailer Grunfos Pump	
Chain-of-Custody #:	Teflon Bailer Peristaltic Pump Other:	

Sample ID	Bottles (total)	Bottles (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
	4	VOA	HCL			NWTPH-Gx, BTEX, MTBE

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: YES / NO

Field Observation / Notes of Sampling Event: Subjective

TOC - Top of Casing

Sampler (Print): Kevin Hill Sampler Signature: [signature] Date Signed: 07/27/06

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1200 - 112th Avenue NE, Suite C-210, Bellevue, WA 98004
425/450-7726, Toll Free: 800/477-7411, Fax: 425/450-8837

Delta Environmental Consultants, Inc. — A member of: Inogen

WELL MONITORING & SAMPLING FIELD FORM

Project Name: ARCO Facility # 5508 EVERETT

Project #: G0BK4RP63A

Monitoring/Sampling Date: 07/27/06

Monitoring Well ID: MW-3

Field Personnel: Kevin Hill

Start Time: 1130

Weather Conditions: Sun

Approx Air Temp (F): 75

INITIAL WELL DATA & WELL PURGING INFORMATION

Top of Casing Elevation (ft):	Depth to Water Measuring Technique: WLI
Total Well Depth (ft):	Detection Method of Free Product:
Depth to Water (ft): 7.81	Conversion Factors (casing dia. = gallons/linear ft.) Circle One
Free Product Detected:	0.75"=0.02 1"=0.04 2" = 0.17 3" = 0.37
Depth to Free Product :	4" = 0.66 6" = 1.47 8" = 2.61 12" = 5.88
Casing Diameter (in.): 2	Three Well Purge Volumes (gallons) = 3 X _____ = _____
Quantity of Free Product Bailed (gal):	Method of Collecting Free Product:

Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (decree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						2.7		

Total Purged =	Purge Pumping Rate (approx. gpm or ml/min):	Well Yield: High / Moderate / Low
Purge Method (circle one):	PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other	
Water Level After Purging (TOC - ft.):	Decontamination Methods:	
Instrument Type & Number:	Instrument Notes:	
Instrument Calibration Date & Time:		

WELL CONDITION

Casing (circle one):	Stainless Steel (SS) Carbon Steel (PVC) Other:		
Casing Condition:	(OK) / NA / Needs Repairs / Repaired	Lock Condition:	OK / NA / Needs Repairs / (Repaired)
Cap Condition:	(OK) / NA / Needs Repairs / Repaired	Inner Casing Condition:	(OK) / NA / Needs Repairs / Repaired
Paint Condition:	(OK) / NA / Needs Repairs / Repaired	Monument Condition:	(OK) / NA / Needs Repairs / Repaired

Recommended Well Repairs: added lock + lock Plate added bolts

SAMPLING INFORMATION / DATA

Date Sampled: 07/27/06	QA/QC Sample (circle one): YES / NO	Water Chemistry Sample: (YES) / NO
Time Sampled: 1130	Sampling Method (circle One): SS Bailer (Poly Bailer) Grunfos Pump	
Chain-of-Custody #:	Teflon Bailer Peristaltic Pump Other:	

Sample ID	Bottles (total)	Bottles (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
MW-3-7.81	4	VOA	HCL			NWTPH-Gx, BTEX, MTBE
	1					

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: (YES) / NO

Field Observation / Notes of Sampling Event:

TOC - Top of Casing

Sampler (Print): HH

Sampler Signature:

Date Signed: 07/27/06

Delta Environmental Consultants, Inc.
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425/450-7726, Toll Free: 800/477-7411, Fax: 425/450-8837

Delta Environmental Consultants, Inc. — A member of: Inogen

WELL MONITORING & SAMPLING FIELD FORM

Project Name: ARCO Facility # 5508 EVERETT

Project #: G0BK4RP63A

Monitoring/Sampling Date: 07/27/06

Monitoring Well ID: MW-4 | Field Personnel: Kevin Hill

Start Time: 1100 | Weather Conditions: Sunny | Approx Air Temp (F): 71

INITIAL WELL DATA & WELL PURGING INFORMATION

Top of Casing Elevation (ft):	Depth to Water Measuring Technique: WLI
Total Well Depth (ft):	Detection Method of Free Product:
Depth to Water (ft): 6.48	Conversion Factors (casing dia. = gallons/linear ft.) Circle One
Free Product Detected:	0.75"=0.02 1"=0.04 2" = 0.17 3" = 0.37
Depth to Free Product :	4" = 0.66 6" = 1.47 8" = 2.61 12" = 5.88
Casing Diameter (in.): 2	Three Well Purge Volumes (gallons) = 3 X _____ = _____
Quantity of Free Product Bailed (gal):	Method of Collecting Free Product:

Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (decree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						3.7		

Total Purged = | Purge Pumping Rate (approx. gpm or ml/min): | Well Yield: High / Moderate / Low

Purge Method (circle one): PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other

Water Level After Purging (TOC - ft.): | Decontamination Methods:

Instrument Type & Number: | Instrument Notes:

Instrument Calibration Date & Time:

WELL CONDITION

Casing (circle one): Stainless Steel (SS) Carbon Steel (PVC) Other:

Casing Condition:	(OK) / NA / Needs Repairs / Repaired	Lock Condition:	OK / NA / Needs Repairs / (Repaired)
Cap Condition:	(OK) / NA / Needs Repairs / Repaired	Inner Casing Condition:	(OK) / NA / Needs Repairs / Repaired
Paint Condition:	(OK) / NA / Needs Repairs / Repaired	Monument Condition:	(OK) / NA / Needs Repairs / Repaired

Recommended Well Repairs: added locking cap

SAMPLING INFORMATION / DATA

Date Sampled: 07/27/06 | QA/QC Sample (circle one): YES / NO | Water Chemistry Sample: (YES) / NO

Time Sampled: 1100 | Sampling Method (circle One): SS Bailer (Poly Bailer) Grunfos Pump

Chain-of-Custody #: | Teflon Bailer Peristaltic Pump Other:

Sample ID	Bottles (total)	Bottles (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
MW-4-6.48	4	VOA	HCL			NWTPH-Gx, BTEX, MTBE
	1					

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: (YES) / NO

Field Observation / Notes of Sampling Event:

Cloudy

TOC - Top of Casing

Sampler (Print): HK | Sampler Signature: [signature] | Date Signed: 07/27/06