

RELEASE # 5431

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

TEXACO - MAPLE VALLEY
TEXACO-63-232-0495

Maple Valley
UST # 3358

RECEIVED
SEP 06 2007
DEPT. OF ECOLOGY
TCP-NWRO

September 4, 2007

Sent via Regular Mail

Ms. Carol Campagna
Shell Oil Products US
20945 S. Wilmington Avenue
Carson, California 90810-1039

SUBJ: SHELL GRASP MONITORING REPORT
Shell Service Station
21641 Maple Valley Highway
Maple Valley, Washington
Delta Project ST216-41G-X



Dear Ms. Campagna:

Delta Consultants (Delta), has prepared this Shell GRASP Monitoring Report for the above referenced site.

GRASP (GRoundwater ASsessment Program) is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more public water supply wells. The purpose of this program is to proactively monitor the groundwater beneath these sites and, in the event of a subsurface release, to respond quickly to protect public wells from this impact.

If you have any questions regarding this site, please contact Matthew Miller (Delta) at (425) 498-7722.

Sincerely,

DELTA CONSULTANTS

Jamey Peterson
for Jamey Peterson
Staff Scientist

Matthew Miller
Matthew Miller, L.G.
Project Specialist



Matthew Miller

Attachments: Shell GRASP Monitoring Report

cc: John Wietfield, Department of Ecology, 3190 160th Avenue SE Bellevue, WA 98008



4006 148TH AVENUE NE REDMOND, WASHINGTON 98052 USA
PHONE 425.882.3528 / 800.477.7411 FAX 425.869.1892 WWW.DELTAENV.COM

September 4, 2007

SHELL GRASP MONITORING REPORT

Station Address: 21641 Maple Valley Highway
Maple Valley, Washington
SHELL GRASP Incident No.: 97420022
DELTA Project No.: ST216-41G-X
SHELL Environmental Engin./Phone No.: Carol M. Campagna / (707) 399-7878
DELTA Project Manager/Phone No.: Matthew Miller / (425) 498-7722

Current Phase of Project: GRASP Groundwater Monitoring
Frequency of Sampling: Annual
Frequency of Monitoring: Annual
Most Recent Sampling Event: April 5, 2007
Is Separate Phase Hydrocarbon Present On-site Yes No
(Well #'s):
Cumulative SPH Recovered to Date : None
SPH Recovered This Quarter : None
Sensitive Receptor(s) Information: Nearest production well is a municipal supply well, approximately 845 ft east of the site
Approximate Depth to Groundwater: 14.85 to 16.24 feet
Groundwater Gradient: Indeterminable on 4/5/07
Summary of Unusual Activity: None

Matthew Miller, L.G.
Project Specialist (Delta)

ATTACHED:

- Table 1 – Groundwater Gauging and Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Groundwater Map
- Appendix A – Field Data Sheets
- Appendix B – Field Procedures
- Appendix C – Laboratory Report and Chain-of-Custody Documents

TABLE

TABLE 1
GROUNDWATER GAUGING AND ANALYTICAL DATA
21641 Maple Valley Highway
Maple Valley, Washington

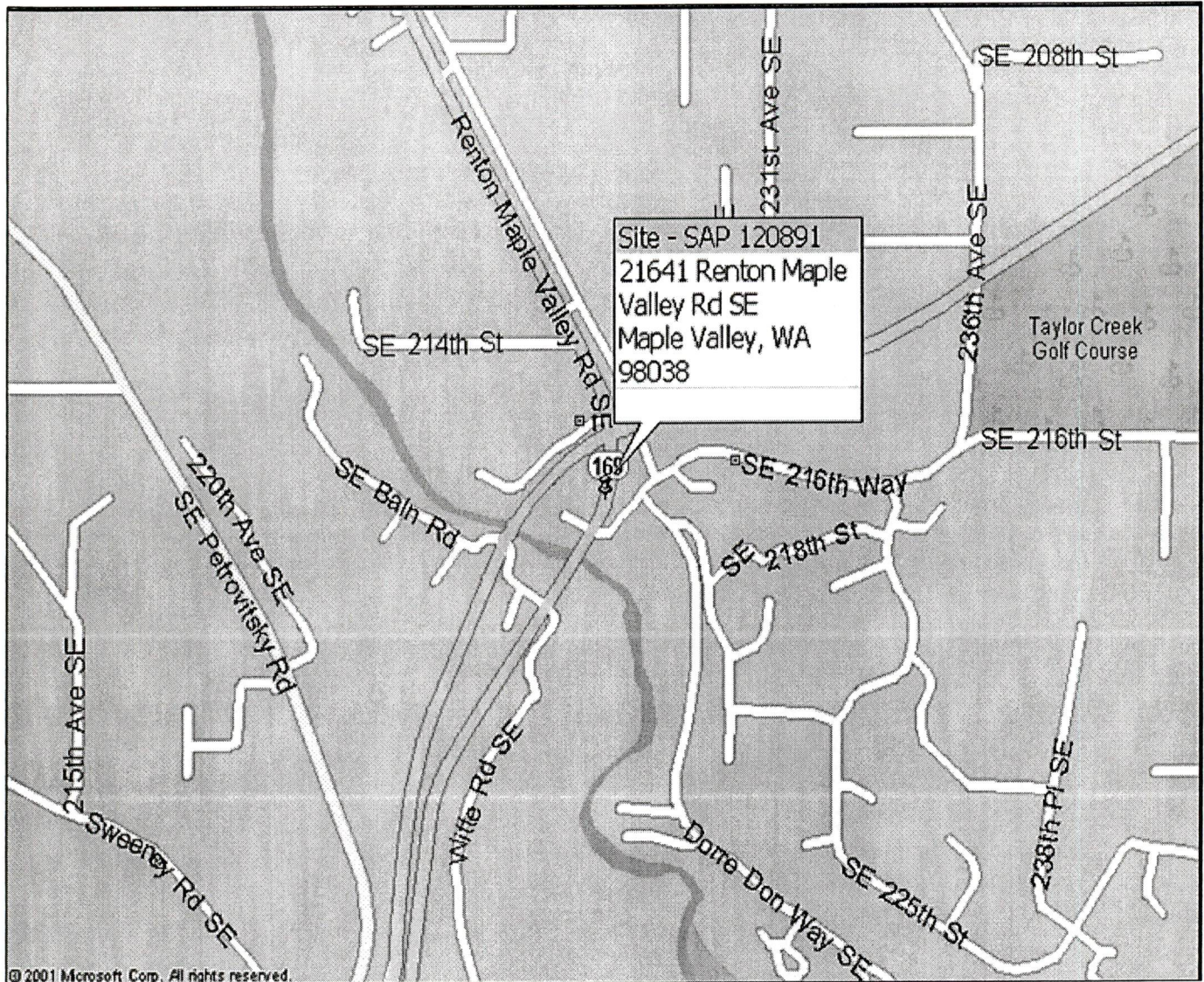
Sample I.D. TOC ¹	Sample Date	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	EDB (µg/l)	EDC (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TBA (µg/l)	Ethanol (µg/l)	Depth to GW (feet)	SPH (feet)	GW Elev. ¹ (feet)
MW-1b	12/19/02	<250	<250	<750	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	<0.5	<2.5	NA	12.53	0.00	327.50
340.03	05/13/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	NA	12.47	0.00	327.56
	08/20/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	13.10	0.00	326.93
	12/10/03	530	<250	<500	240	180	5.7	21.2	<1	NA	NA	<5	<5	<5	<50	<5,000	12.25	0.00	327.78
	01/08/04 ²	<100	NA	NA	<0.25	<0.5	<0.5	<1	NA	NA	NA	NA	NA	NA	NA	NA	12.35	0.00	327.68
	05/26/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	12.75	0.00	327.28
	11/15/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	12.95	0.00	327.08
	05/24/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	12.44	0.00	327.59
	10/26/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	13.10	0.00	326.93
	04/26/06	<50.0	<236	<472	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<150	12.39	0.00	327.64
	10/26/06	<50.0	<96.2	<96.2	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<250	12.80	0.00	327.23
	04/05/07	<50.0	<250	<500	<0.500	<0.500	<0.500	<3.00	<5.00	<0.500	<0.500	<1.00	<1.00	<1.00	<50.0	<250	15.12	0.00	324.91
MW-2b	12/19/02	<250	<250	<750	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	<0.5	<2.5	NA	11.57	0.00	327.85
339.42	05/13/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	NA	11.51	0.00	327.91
	08/20/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	12.50	0.00	326.92
	12/10/03	<250	<250	<500	3.2	2.6	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	11.32	0.00	328.10
	01/08/04 ²	<100	NA	NA	<0.25	<0.5	<0.5	<1	NA	NA	NA	NA	NA	NA	NA	NA	11.41	0.00	328.01
	05/26/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	11.78	0.00	327.64
	11/15/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	11.97	0.00	327.45
	05/24/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	12.41	0.00	327.01
	10/26/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	12.04	0.00	327.38
	04/26/06	<50.0	<236	<472	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<150	11.34	0.00	328.08
	10/26/06	<50.0	<97.1	<97.1	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<250	11.78	0.00	327.64
	04/05/07	<50.0	<250	<500	<0.500	<0.500	<0.500	<3.00	<5.00	<0.500	<0.500	<1.00	<1.00	<1.00	<50.0	<250	14.85	0.00	324.57
MW-12	12/19/02	<250	<250	<750	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	<0.5	<2.5	NA	12.95	0.00	327.43
340.38	05/13/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	NA	12.90	0.00	327.48
	08/20/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	13.21	0.00	327.17
	12/10/03	<250	<250	<500	32	24	<1	2.3	<1	NA	NA	<5	<5	<5	<50	<5,000	12.66	0.00	327.72
	01/08/04 ²	<100	NA	NA	0.326	2.14	<0.5	<1	NA	NA	NA	NA	NA	NA	NA	NA	12.83	0.00	327.55
	05/26/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	13.10	0.00	327.28
	11/15/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	13.29	0.00	327.09
	05/24/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	12.80	0.00	327.58
	10/26/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	13.41	0.00	326.97
	04/26/06	<50.0	<245	<490	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<150	12.75	0.00	327.63
	10/26/06	<50.0	<96.2	138	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<250	13.11	0.00	327.27
	04/05/07	<50.0	<250	<500	<0.500	<0.500	<0.500	<3.00	<5.00	<0.500	<0.500	<1.00	<1.00	<1.00	<50.0	<250	16.24	0.00	324.14

**TABLE 1
GROUNDWATER GAUGING AND ANALYTICAL DATA**

21641 Maple Valley Highway
Maple Valley, Washington

Sample I.D.	Sample Date	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	EDB (µg/l)	EDC (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TBA (µg/l)	Ethanol (µg/l)	Depth to GW (feet)	SPH (feet)	GW Elev. ¹ (feet)
MW-13	12/19/02	<250	<250	<750	<0.5	0.69	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	<0.5	<2.5	NA	12.70	0.00	327.49
340.19	05/13/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	NA	12.62	0.00	327.57
	08/20/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	13.52	0.00	326.67
	12/10/03	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	12.37	0.00	327.82
	01/08/04 ²	<100	NA	NA	<0.25	<0.5	<0.5	<1	NA	NA	NA	NA	NA	NA	NA	NA	12.54	0.00	327.65
	05/26/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	12.83	0.00	327.36
	11/15/04	<250	<250	<500	<1	<1	<1	<1	<1	NA	NA	<5	<5	<5	<50	<5,000	13.01	0.00	327.18
	05/24/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	12.51	0.00	327.68
	10/26/05	<50	<250	<500	<1	<1	<1	<1	<1	NA	NA	<2	<2	<5	<50	<5,000	13.28	0.00	326.91
	04/26/06	<50.0	<245	<490	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<150	12.44	0.00	327.75
	10/26/06	<50.0	<96.2	129	<0.500	<0.500	<0.500	<3.00	<5.00	NA	NA	<1.00	<1.00	<1.00	<50.0	<250	12.89	0.00	327.30
	04/05/07	<50.0	<250	<500	<0.500	<0.500	<0.500	<3.00	<5.00	<0.500	<0.500	<1.00	<1.00	<1.00	<50.0	<250	15.91	0.00	324.28
trip blank	04/05/07	<50.0	NA	NA	<0.500	<0.500	<0.500	<3.00	<5.00	<0.500	<0.500	<1.00	<1.00	<1.00	<50.0	<250	--	--	--
MTCA Method A Cleanup Levels:		1000³	500	500	5	1000	700	1000	20	700	700	-	-	-	-	-	-	-	-
Notes:																			
µg/l = micrograms per liter																			
TOC = Top of well casing elevation (feet)																			
SPH = Separate-phase hydrocarbons																			
TPH-G = Total Petroleum Hydrocarbons in the Gasoline range																			
TPH-D = Total Petroleum Hydrocarbons in the Diesel range																			
TPH-O = Total Petroleum Hydrocarbons in the Oil range																			
MTBE = Methyl tert-butyl ether																			
DIPE = Di-isopropyl ether																			
EDB = 1,2-Dibromoethane																			
EDC = 1,2-Dichloroethane																			
ETBE = Ethyl tert-butyl ether																			
TAME = tert-Amyl methyl ether																			
TBA = t-Butyl Alcohol																			
NA = Not analyzed																			
<n = Below the detection limit																			
TPH-D and TPH-O quantified using Northwest Method NWTPH-Dx																			
TPH-G quantified using Northwest Method NWTPH-Gx																			
BTEX Compounds, MTBE, DIPE, ETBE, TAME, and TBA analyzed using EPA Method 8260B																			
¹ TOC elevation and groundwater elevation relative to Mean Sea Level																			
² Well was purged prior to groundwater sampling on January 8, 2004																			
³ MTCA Method A Cleanup Level for TPH-Gasoline is 800 µg/l if benzene is detectable in groundwater.																			

FIGURES



NOT TO SCALE

FIGURE 1

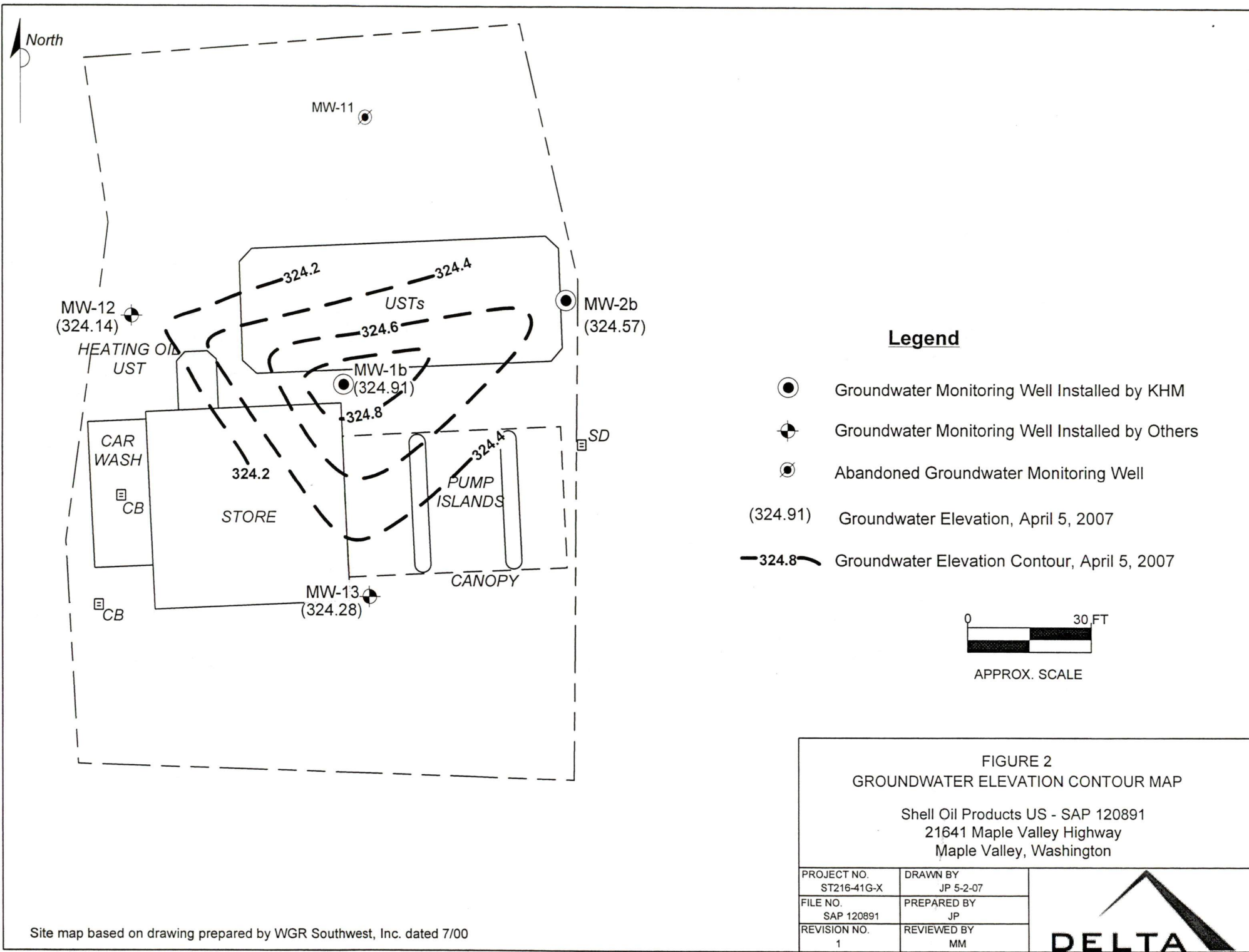
SITE LOCATION MAP

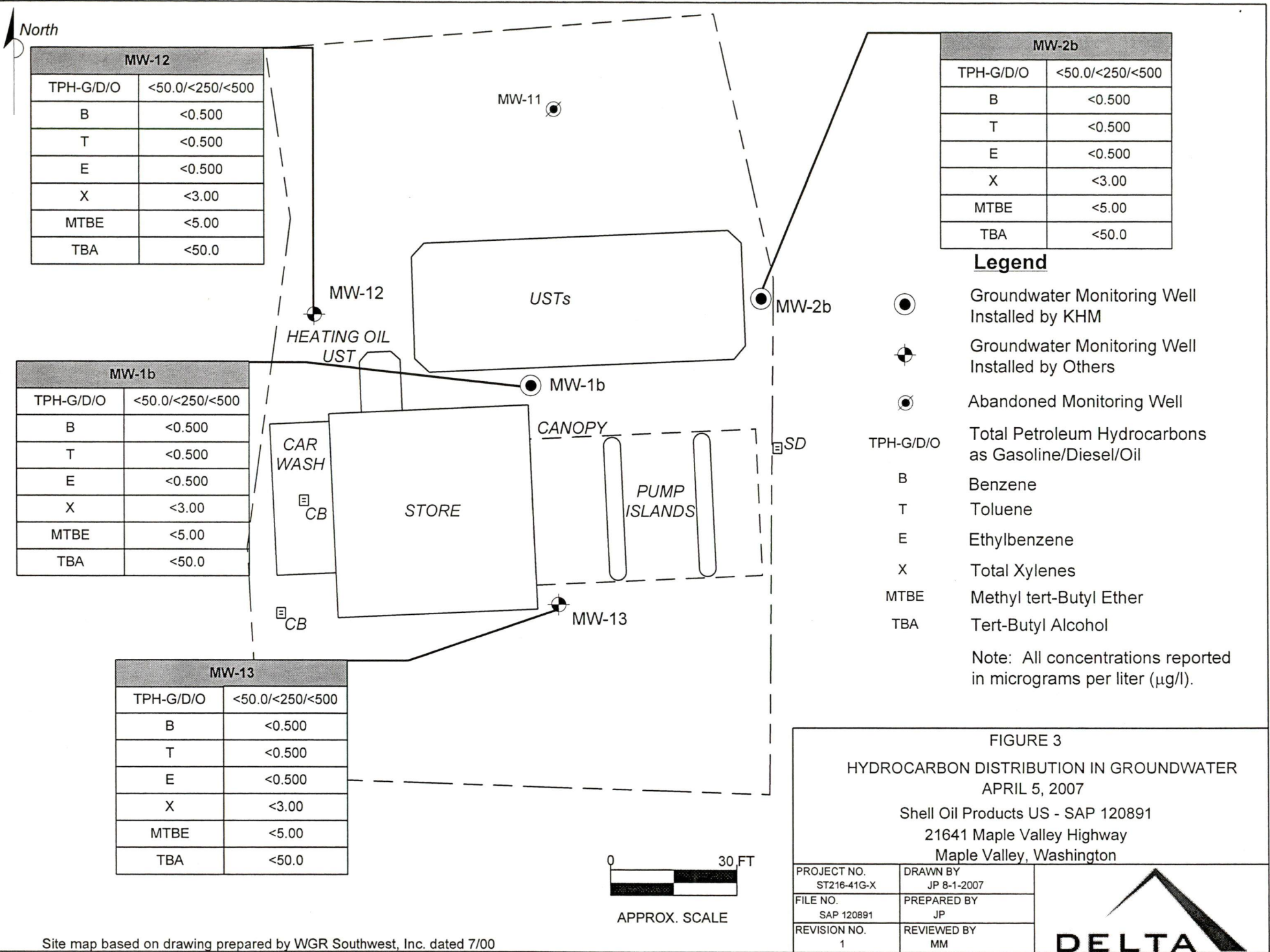
Shell Oil Products US- SAP 120891
 21641 Maple Valley Highway
 Maple Valley, Washington

PROJECT NO. ST21-641-G	DRAWN BY SB 12-10-04
FILE NO. SAP 120891	PREPARED BY SB
REVISION NO. 1	REVIEWED BY DL



GENERAL NOTES:
 BASE MAP FROM MICROSOFT STREETS & TRIPS 2003





MW-12	
TPH-G/D/O	<50.0/<250/<500
B	<0.500
T	<0.500
E	<0.500
X	<3.00
MTBE	<5.00
TBA	<50.0

MW-2b	
TPH-G/D/O	<50.0/<250/<500
B	<0.500
T	<0.500
E	<0.500
X	<3.00
MTBE	<5.00
TBA	<50.0

MW-1b	
TPH-G/D/O	<50.0/<250/<500
B	<0.500
T	<0.500
E	<0.500
X	<3.00
MTBE	<5.00
TBA	<50.0

MW-13	
TPH-G/D/O	<50.0/<250/<500
B	<0.500
T	<0.500
E	<0.500
X	<3.00
MTBE	<5.00
TBA	<50.0

Legend

- Groundwater Monitoring Well Installed by KHM
 - Groundwater Monitoring Well Installed by Others
 - Abandoned Monitoring Well
 - TPH-G/D/O Total Petroleum Hydrocarbons as Gasoline/Diesel/Oil
 - B Benzene
 - T Toluene
 - E Ethylbenzene
 - X Total Xylenes
 - MTBE Methyl tert-Butyl Ether
 - TBA Tert-Butyl Alcohol
- Note: All concentrations reported in micrograms per liter (µg/l).

FIGURE 3
HYDROCARBON DISTRIBUTION IN GROUNDWATER
APRIL 5, 2007
 Shell Oil Products US - SAP 120891
 21641 Maple Valley Highway
 Maple Valley, Washington

PROJECT NO. ST216-41G-X	DRAWN BY JP 8-1-2007
FILE NO. SAP 120891	PREPARED BY JP
REVISION NO. 1	REVIEWED BY MM

Site map based on drawing prepared by WGR Southwest, Inc. dated 7/00

APPENDIX A
FIELD DATA SHEETS

APPENDIX B

FIELD PROCEDURES

GROUNDWATER MONITORING AND SAMPLING

Before the sampling event, Delta measured depth to water in each groundwater monitoring well at the facility with an electronic water level meter. This information was recorded on waterproof field sheets. Groundwater elevations (GWE) were measured to an accuracy of 0.01 feet. Samples were withdrawn from each well using a disposable polyethylene bailer and placed in the appropriate laboratory-provided container. Samples were labeled, placed into ice filled coolers, logged onto chain-of-custody forms and transported to the laboratory.

APPENDIX C

LABORATORY REPORT AND
CHAIN-OF-CUSTODY DOCUMENTS

April 20, 2007

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

RE: Shell-21641 Maple Valley HWY; Maple Valley, WA

Enclosed are the results of analyses for samples received by the laboratory on 04/06/07 15:00.
The following list is a summary of the Work Orders contained in this report, generated on 04/20/07
13:44.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BQD0114	Shell-21641 Maple Valley HW	97420022

TestAmerica - Seattle, WA

Sandra Yakamavich

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 shall not be reproduced except in full, without the written approval of the laboratory.





Shell Oil Products Chain Of Custody Record

BQD0114

LAB (LOCATION)
 TEST AMERICA (Bothel)
 CALSCIENCE ()
 XENCO ()
 AIR TOXICS ()
 OTHER ()

NAME OF PERSON TO BILL:
 ENV SERVICES SOP LAB
 COMPLIANCE ANALYST
 NETWORK DEVICE BILL CONSULTANT

INCIDENT # (ENV SERVICES) 97420622
 CHECK BOX TO VERIFY IF NO INCIDENT NUMBER APPLIES
 PO # (RN) SAP #
120891

DATE: 5/6/07
 PAGE: 1 of 1

CONSULTANT COMPANY: Delta
 ADDRESS: 4006 148th AVE NE
 CITY: Redmond WA
 TELEPHONE: 509 9487722 FAX: 509 8691992 E-MAIL: MRMiller@delta-env.com

SITE ADDRESS (Street and City): 21641 Maple Valley Hwy Maple Valley WA
 PROJECT CONTACT (Report to): Matt Miller
 CONSULTANT PROJECT NO.: ST 21-641-G
 SAMPLER NAME(S) (Print): K Hill
 LAB USE ONLY

TURNAROUND TIME (STD IS IN BUSINESS DAYS / RUSH IS IN CALENDAR DAYS):
 STANDARD (10 DAY) 5 DAYS 3 DAYS 2 DAY'S 24 HOURS RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C°
 SPECIAL INSTRUCTIONS OR NOTES :
 SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH Piquette 8015 CRD	TPH Estimation 8015 DRD	BTEX Inhibe + Oxy 82606	ET Inhib	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER						
	MW-1B	4/5/07		W	X					7	X	X	X	X	01
	MW-2B			W	X					7	X	X	X	X	02
	MW-12			W	X					7	X	X	X	X	03
	MW-13			W	X					7	X	X	X	X	04
	trip Blank			W	X					1	X	X	X	X	
	trip Blank			W	X					1	X	X	X	X	05

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>4/6/07</u>	Time: <u>1435</u>
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

@Lab 1500 w/o 7.7°C

Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1B	BQD0114-01	Water	04/05/07 09:45	04/06/07 15:00
MW-2B	BQD0114-02	Water	04/05/07 09:00	04/06/07 15:00
MW-12	BQD0114-03	Water	04/05/07 11:00	04/06/07 15:00
MW-13	BQD0114-04	Water	04/05/07 10:30	04/06/07 15:00
Trip Blank	BQD0114-05	Water	04/05/07 17:00	04/06/07 15:00

Sandra Yakamovich
Sandra Yakamovich, Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0114-01 (MW-1B)		Water			Sampled: 04/05/07 09:45					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7D14005	04/14/07 15:03	04/14/07 17:32	
Surrogate(s): 4-BFB (FID)			68.0%		58 - 144 %	"				"
BQD0114-02 (MW-2B)		Water			Sampled: 04/05/07 09:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7D14005	04/14/07 15:03	04/14/07 19:02	
Surrogate(s): 4-BFB (FID)			84.2%		58 - 144 %	"				"
BQD0114-03 (MW-12)		Water			Sampled: 04/05/07 11:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7D14005	04/14/07 15:03	04/14/07 19:32	
Surrogate(s): 4-BFB (FID)			87.2%		58 - 144 %	"				"
BQD0114-04 (MW-13)		Water			Sampled: 04/05/07 10:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7D14005	04/14/07 15:03	04/14/07 20:02	P1
Surrogate(s): 4-BFB (FID)			85.0%		58 - 144 %	"				"
BQD0114-05 (Trip Blank)		Water			Sampled: 04/05/07 17:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	7D14005	04/14/07 15:03	04/14/07 23:02	A-01
Surrogate(s): 4-BFB (FID)			85.0%		58 - 144 %	"				"

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Sandra Yakamavich

Sandra Yakamavich, Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0114-01 (MW-1B)		Water			Sampled: 04/05/07 09:45					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.250	mg/l	1x	7D12004	04/12/07 09:04	04/14/07 00:08	
Lube Oil Range Hydrocarbons	"	ND	----	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			85.2%		53 - 125 %	"				"
Octacosane			89.2%		68 - 125 %	"				"
BQD0114-02 (MW-2B)		Water			Sampled: 04/05/07 09:00					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.250	mg/l	1x	7D12004	04/12/07 09:04	04/14/07 02:06	
Lube Oil Range Hydrocarbons	"	ND	----	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			84.8%		53 - 125 %	"				"
Octacosane			92.4%		68 - 125 %	"				"
BQD0114-03 (MW-12)		Water			Sampled: 04/05/07 11:00					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.250	mg/l	1x	7D12004	04/12/07 09:04	04/14/07 02:36	
Lube Oil Range Hydrocarbons	"	ND	----	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			77.6%		53 - 125 %	"				"
Octacosane			96.0%		68 - 125 %	"				"
BQD0114-04 (MW-13)		Water			Sampled: 04/05/07 10:30					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.250	mg/l	1x	7D12004	04/12/07 09:04	04/14/07 03:05	
Lube Oil Range Hydrocarbons	"	ND	----	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			85.2%		53 - 125 %	"				"
Octacosane			91.2%		68 - 125 %	"				"

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Sandra Yakamavich, Project Manager

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Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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Oxygenates by EPA Method 8260B
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0114-01 (MW-1B)		Water				Sampled: 04/05/07 09:45				
tert-Amyl Methyl Ether	EPA 8260B	ND	----	1.00	ug/l	1x	7D11049	04/11/07 08:37	04/11/07 18:45	
Benzene	"	ND	----	0.500	"	"	"	"	"	
tert-Butyl Alcohol	"	ND	----	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	----	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethanol	"	ND	----	250	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	5.00	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				104%						70 - 130 %
<i>Toluene-d8</i>				101%						75 - 125 %
<i>4-BFB</i>				100%						75 - 125 %

BQD0114-02 (MW-2B)		Water				Sampled: 04/05/07 09:00				
tert-Amyl Methyl Ether	EPA 8260B	ND	----	1.00	ug/l	1x	7D11049	04/11/07 08:37	04/11/07 19:12	
Benzene	"	ND	----	0.500	"	"	"	"	"	
tert-Butyl Alcohol	"	ND	----	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	----	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethanol	"	ND	----	250	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	5.00	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				99.5%						70 - 130 %
<i>Toluene-d8</i>				104%						75 - 125 %
<i>4-BFB</i>				100%						75 - 125 %

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Sandra Yakamavich

Sandra Yakamavich, Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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Oxygenates by EPA Method 8260B
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BQD0114-03 (MW-12)		Water			Sampled: 04/05/07 11:00					
tert-Amyl Methyl Ether	EPA 8260B	ND	----	1.00	ug/l	1x	7D11049	04/11/07 08:37	04/11/07 19:38	
Benzene	"	ND	----	0.500	"	"	"	"	"	
tert-Butyl Alcohol	"	ND	----	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	----	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethanol	"	ND	----	250	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	5.00	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			104%			70 - 130 %	"			"
Toluene-d8			98.5%			75 - 125 %	"			"
4-BFB			106%			75 - 125 %	"			"

BQD0114-04 (MW-13)		Water			Sampled: 04/05/07 10:30					
tert-Amyl Methyl Ether	EPA 8260B	ND	----	1.00	ug/l	1x	7D11049	04/11/07 08:37	04/11/07 20:04	
Benzene	"	ND	----	0.500	"	"	"	"	"	
tert-Butyl Alcohol	"	ND	----	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	----	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethanol	"	ND	----	250	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	5.00	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			102%			70 - 130 %	"			"
Toluene-d8			96.0%			75 - 125 %	"			"
4-BFB			100%			75 - 125 %	"			"

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Sandra Yakamavich

Sandra Yakamavich, Project Manager

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Oxygenates by EPA Method 8260B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0114-05 (Trip Blank)		Water			Sampled: 04/05/07 17:00					
tert-Amyl Methyl Ether	EPA 8260B	ND	----	1.00	ug/l	1x	7D10044	04/10/07 12:00	04/10/07 16:10	
Benzene	"	ND	----	0.500	"	"	"	"	"	
tert-Butyl Alcohol	"	ND	----	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	----	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethanol	"	ND	----	250	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	5.00	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>104%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>
	<i>Toluene-d8</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>			<i>"</i>
	<i>4-BFB</i>			<i>99.5%</i>		<i>75 - 125 %</i>	<i>"</i>			<i>"</i>

Sandra Yakamavich

Sandra Yakamavich, Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7D14005 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 (7D14005-BLK1)												Extracted: 04/14/07 15:03			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/14/07 16:31		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 82.2%</i>		<i>Limits: 58-144%</i>									04/14/07 16:31		
LCS (7D14005-BS1)												Extracted: 04/14/07 15:03			
Gasoline Range Hydrocarbons	NWTPH-Gx	999	---	50.0	ug/l	1x	--	1000	99.9%	(80-120)	--	--	04/14/07 17:01		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.7%</i>		<i>Limits: 58-144%</i>									04/14/07 17:01		
Duplicate (7D14005-DUP1)												QC Source: BQD0114-01		Extracted: 04/14/07 15:03	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR (25)		04/14/07 18:31	R4	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.0%</i>		<i>Limits: 58-144%</i>									04/14/07 18:31		
Matrix Spike (7D14005-MS1)												QC Source: BQD0114-01		Extracted: 04/14/07 15:03	
Gasoline Range Hydrocarbons	NWTPH-Gx	876	---	50.0	ug/l	1x	ND	1000	87.6%	(75-131)	--	--	04/14/07 21:32		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 89.0%</i>		<i>Limits: 58-144%</i>									04/14/07 21:32		

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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7D12004 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D12004-BLK1)												Extracted: 04/12/07 09:04		
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	04/13/07 19:41	
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.6%</i>	<i>Limits: 53-125%</i>		<i>"</i>							<i>04/13/07 19:41</i>	
<i>Octacosane</i>			<i>85.6%</i>	<i>68-125%</i>		<i>"</i>							<i>"</i>	
LCS (7D12004-BS1)												Extracted: 04/12/07 09:04		
Diesel Range Hydrocarbons	NWTPH-Dx	1.66	---	0.250	mg/l	1x	--	2.00	83.0%	(61-132)	--	--	04/13/07 20:11	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>76.4%</i>	<i>Limits: 53-125%</i>		<i>"</i>							<i>04/13/07 20:11</i>	
<i>Octacosane</i>			<i>83.6%</i>	<i>68-125%</i>		<i>"</i>							<i>"</i>	
LCS Dup (7D12004-BSD1)												Extracted: 04/12/07 09:04		
Diesel Range Hydrocarbons	NWTPH-Dx	1.92	---	0.250	mg/l	1x	--	2.00	96.0%	(61-132)	14.5%	(40)	04/13/07 20:40	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 53-125%</i>		<i>"</i>							<i>04/13/07 20:40</i>	
<i>Octacosane</i>			<i>90.4%</i>	<i>68-125%</i>		<i>"</i>							<i>"</i>	

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Sandra Yakamavich, Project Manager



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Oxygenates by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7D10044 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D10044-BLK1)													Extracted: 04/10/07 12:00	
tert-Amyl Methyl Ether	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	04/10/07 15:43	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
tert-Butyl Alcohol	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Diisopropyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethanol	"	ND	---	250	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>98.0%</i>	<i>Limits:</i>	<i>70-130%</i>	<i>"</i>							<i>04/10/07 15:43</i>	
<i>Toluene-d8</i>			<i>99.5%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

LCS (7D10044-BS1)													Extracted: 04/10/07 12:00	
tert-Amyl Methyl Ether	EPA 8260B	19.7	---	1.00	ug/l	1x	--	20.0	98.5%	(75-125)	--	--	04/10/07 14:50	
Benzene	"	18.4	---	0.500	"	"	--	"	92.0%	(80-120)	--	--	"	
tert-Butyl Alcohol	"	107	---	50.0	"	"	--	100	107%	(75-125)	--	--	"	
1,2-Dibromoethane (EDB)	"	18.6	---	0.500	"	"	--	20.0	93.0%	"	--	--	"	
1,2-Dichloroethane (EDC)	"	19.1	---	0.500	"	"	--	"	95.5%	"	--	--	"	
Diisopropyl ether	"	18.8	---	1.00	"	"	--	"	94.0%	"	--	--	"	
Ethyl tert-butyl ether	"	18.7	---	1.00	"	"	--	"	93.5%	"	--	--	"	
Ethanol	"	1190	---	250	"	"	--	1000	119%	"	--	--	"	
Ethylbenzene	"	19.7	---	0.500	"	"	--	20.0	98.5%	"	--	--	"	
Methyl tert-butyl ether	"	19.2	---	5.00	"	"	--	"	96.0%	(75-126)	--	--	"	
Toluene	"	19.4	---	0.500	"	"	--	"	97.0%	(75-125)	--	--	"	
o-Xylene	"	19.2	---	1.00	"	"	--	"	96.0%	(75-130)	--	--	"	
m,p-Xylene	"	38.5	---	2.00	"	"	--	40.0	96.2%	(75-125)	--	--	"	
Xylenes (total)	"	57.8	---	3.00	"	"	--	60.0	96.3%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>98.0%</i>	<i>Limits:</i>	<i>70-130%</i>	<i>"</i>							<i>04/10/07 14:50</i>	
<i>Toluene-d8</i>			<i>100%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

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Sandra Yakamovich

Sandra Yakamovich, Project Manager

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Oxygenates by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7D10044 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7D10044-BSD1)													Extracted: 04/10/07 12:00	
tert-Amyl Methyl Ether	EPA 8260B	20.8	---	1.00	ug/l	1x	--	20.0	104%	(75-125)	5.43%	(25)	04/10/07 15:17	
Benzene	"	19.6	---	0.500	"	"	--	"	98.0%	(80-120)	6.32%	(20)	"	
tert-Butyl Alcohol	"	107	---	50.0	"	"	--	100	107%	(75-125)	0.00%	(25)	"	
1,2-Dibromoethane (EDB)	"	19.0	---	0.500	"	"	--	20.0	95.0%	"	2.13%	"	"	
1,2-Dichloroethane (EDC)	"	19.4	---	0.500	"	"	--	"	97.0%	"	1.56%	"	"	
Diisopropyl ether	"	20.0	---	1.00	"	"	--	"	100%	"	6.19%	"	"	
Ethyl tert-butyl ether	"	20.5	---	1.00	"	"	--	"	102%	"	9.18%	"	"	
Ethanol	"	987	---	250	"	"	--	1000	98.7%	"	18.6%	"	"	
Ethylbenzene	"	20.4	---	0.500	"	"	--	20.0	102%	"	3.49%	(20)	"	
Methyl tert-butyl ether	"	20.4	---	5.00	"	"	--	"	102%	(75-126)	6.06%	"	"	
Toluene	"	20.3	---	0.500	"	"	--	"	102%	(75-125)	4.53%	"	"	
o-Xylene	"	20.8	---	1.00	"	"	--	"	104%	(75-130)	8.00%	"	"	
m,p-Xylene	"	42.0	---	2.00	"	"	--	40.0	105%	(75-125)	8.70%	"	"	
Xylenes (total)	"	62.9	---	3.00	"	"	--	60.0	105%	"	8.45%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>93.0%</i>	<i>Limits: 70-130%</i>									<i>04/10/07 15:17</i>	
<i>Toluene-d8</i>			<i>100%</i>	<i>75-125%</i>									<i>"</i>	
<i>4-BFB</i>			<i>97.5%</i>	<i>75-125%</i>									<i>"</i>	

TestAmerica - Seattle, WA

Sandra Yakamovich

Sandra Yakamovich, Project Manager

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Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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Oxygenates by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7D11049 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D11049-BLK1)													Extracted: 04/11/07 08:37	
tert-Amyl Methyl Ether	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	04/11/07 13:03	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
tert-Butyl Alcohol	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Diisopropyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethanol	"	ND	---	250	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits:</i>	<i>70-130%</i>	<i>"</i>							<i>04/11/07 13:03</i>	
<i>Toluene-d8</i>			<i>102%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

LCS (7D11049-BS1)													Extracted: 04/11/07 08:37	
tert-Amyl Methyl Ether	EPA 8260B	19.8	---	1.00	ug/l	1x	--	20.0	99.0%	(75-125)	--	--	04/11/07 12:09	
Benzene	"	18.6	---	0.500	"	"	--	"	93.0%	(80-120)	--	--	"	
tert-Butyl Alcohol	"	98.4	---	50.0	"	"	--	100	98.4%	(75-125)	--	--	"	
1,2-Dibromoethane (EDB)	"	18.7	---	0.500	"	"	--	20.0	93.5%	"	--	--	"	
1,2-Dichloroethane (EDC)	"	18.5	---	0.500	"	"	--	"	92.5%	"	--	--	"	
Diisopropyl ether	"	20.0	---	1.00	"	"	--	"	100%	"	--	--	"	
Ethyl tert-butyl ether	"	19.6	---	1.00	"	"	--	"	98.0%	"	--	--	"	
Ethanol	"	1090	---	250	"	"	--	1000	109%	"	--	--	"	
Ethylbenzene	"	19.2	---	0.500	"	"	--	20.0	96.0%	"	--	--	"	
Methyl tert-butyl ether	"	19.4	---	5.00	"	"	--	"	97.0%	(75-126)	--	--	"	
Toluene	"	19.9	---	0.500	"	"	--	"	99.5%	(75-125)	--	--	"	
o-Xylene	"	18.6	---	1.00	"	"	--	"	93.0%	(75-130)	--	--	"	
m,p-Xylene	"	38.4	---	2.00	"	"	--	40.0	96.0%	(75-125)	--	--	"	
Xylenes (total)	"	57.0	---	3.00	"	"	--	60.0	95.0%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>97.0%</i>	<i>Limits:</i>	<i>70-130%</i>	<i>"</i>							<i>04/11/07 12:09</i>	
<i>Toluene-d8</i>			<i>108%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.0%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

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Sandra Yakamovich
 Sandra Yakamovich, Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: Shell-21641 Maple Valley HWY; Maple Valley, WA Project Number: 97420022 Project Manager: Matthew Miller	Report Created: 04/20/07 13:44
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Oxygenates by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 7D11049 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7D11049-BSD1)													Extracted: 04/11/07 08:37	
tert-Amyl Methyl Ether	EPA 8260B	19.4	---	1.00	ug/l	1x	--	20.0	97.0%	(75-125)	2.04%	(25)	04/11/07 12:35	
Benzene	"	19.7	---	0.500	"	"	--	"	98.5%	(80-120)	5.74%	(20)	"	
tert-Butyl Alcohol	"	98.2	---	50.0	"	"	--	100	98.2%	(75-125)	0.203%	(25)	"	
1,2-Dibromoethane (EDB)	"	18.8	---	0.500	"	"	--	20.0	94.0%	"	0.533%	"	"	
1,2-Dichloroethane (EDC)	"	19.4	---	0.500	"	"	--	"	97.0%	"	4.75%	"	"	
Diisopropyl ether	"	19.4	---	1.00	"	"	--	"	97.0%	"	3.05%	"	"	
Ethyl tert-butyl ether	"	18.4	---	1.00	"	"	--	"	92.0%	"	6.32%	"	"	
Ethanol	"	995	---	250	"	"	--	1000	99.5%	"	9.11%	"	"	
Ethylbenzene	"	19.9	---	0.500	"	"	--	20.0	99.5%	"	3.58%	(20)	"	
Methyl tert-butyl ether	"	18.6	---	5.00	"	"	--	"	93.0%	(75-126)	4.21%	"	"	
Toluene	"	19.9	---	0.500	"	"	--	"	99.5%	(75-125)	0.00%	"	"	
o-Xylene	"	19.5	---	1.00	"	"	--	"	97.5%	(75-130)	4.72%	"	"	
m,p-Xylene	"	40.0	---	2.00	"	"	--	40.0	100%	(75-125)	4.08%	"	"	
Xylenes (total)	"	59.4	---	3.00	"	"	--	60.0	99.0%	"	4.12%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.0%</i>	<i>Limits:</i>	<i>70-130%</i>								<i>04/11/07 12:35</i>	
<i>Toluene-d8</i>			<i>105%</i>		<i>75-125%</i>								<i>"</i>	
<i>4-BFB</i>			<i>102%</i>		<i>75-125%</i>								<i>"</i>	

TestAmerica - Seattle, WA

Sandra Yakamovich

Sandra Yakamovich, Project Manager

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Delta Environmental

4006 148th Ave NE
Redmond, WA/USA 98052

Project Name: **Shell-21641 Maple Valley HWY; Maple Valley, WA**

Project Number: 97420022

Project Manager: Matthew Miller

Report Created:

04/20/07 13:44

Notes and Definitions

Report Specific Notes:

- A-01 - Headspace due to lab use; client provided limited sample.
- P1 - Sample received and analyzed without chemical preservation.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

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.



Sandra Yakamavich, Project Manager



Shell Oil Products Chain Of Custody Record



- LAB (LOCATION)**
- TEST AMERICA (Bothe)
 - CALSCIENCE (_____)
 - XENCO (_____)
 - AIR TOXICS (_____)
 - OTHER (_____)

NAME OF PERSON TO BILL:

<input checked="" type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> SOP-LA
<input type="checkbox"/> COMPLIANCE	<input type="checkbox"/> INT/CRMT
<input type="checkbox"/> NETWORK DEV./FE	<input type="checkbox"/> BILL CONSULTANT

INCIDENT # (ENV SERVICES) 97420022

DATE: 5/6/07

PO # (RN) _____ SAP # 120891

PAGE: 1 of 1

CONSULTANT COMPANY: Delta

ADDRESS: 4006 148th AVE NE

CITY: Redmond WA

TELEPHONE: 509 9987222 FAX: 509 8691892 E-MAIL: mr.miller@delta-env.com

SITE ADDRESS (Street and City): 21641 Maple Valley Hwy Maple Valley WA

PROJECT CONTACT (Report to): Matt Miller

CONSULTANT PROJECT NO.: ST 21-641-G

SAMPLER NAME(S) (Print): K Hill

LAB USE ONLY

TURNAROUND TIME (STD IS IN BUSINESS DAYS / RUSH IS IN CALENDAR DAYS):

STANDARD (10 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C° _____

SPECIAL INSTRUCTIONS OR NOTES :

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	Container PID Readings or Laboratory Notes				
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER						
	MW-1B	4/5/07		w	x					7	x	x	x	x	
	MW-2B			w	x					7	x	x	x	x	
	MW-12			w	x					7	x	x	x	x	
	MW-13			w	x					7	x	x	x	x	
	trip Blank			w	x						x	x	x	x	
	trip Blank			w	x					1					

TPH Purge 8015 CRD
 TPH Extract 8015 DRD
 BTEX MBE + OXY 8268
 Et 4/5/07

Relinquished by: (Signature) [Signature]

Relinquished by: (Signature) _____

Relinquished by: (Signature) _____

Received by: (Signature) [Signature]

Received by: (Signature) _____

Received by: (Signature) _____

Date: 4/6/07 Time: 1435

Date: _____ Time: _____

Date: _____ Time: _____