



CONESTOGA-ROVERS
& ASSOCIATES

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DEPT. OF ECOLOGY
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Q LUBE - U V. HAGE
SEATTLE
RELEASE # 361399

October 13, 2008

Mr. John Bails
Northwest Regional Office
Washington Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008-5452

Re: **Site Investigation Report**
Jiffy Lube Service Station
4902 25th Ave. NE
Seattle, Washington
SAP No. 171156
Incident No. 97605414
Ecology ID No. 41675877

Dear Mr. Bails:

Conestoga-Rovers & Associates, Inc. (CRA) presents this report on behalf of Equilon Enterprises LLC (Equilon) dba Shell Oil Products US (Shell) to document the recent site investigation activities at the above referenced site. This investigation further defines the extent of impacted soil and groundwater associated with the Jiffy Lube Service Station building. Four monitoring wells were installed on the adjacent property owned by Office Depot within the parking lot driveway entrance.

EXECUTIVE SUMMARY

- CRA supervised the drilling and installation of four groundwater monitoring wells to further characterize the extent of impacted soil and groundwater downgradient of the site.
- Concentrations of petroleum hydrocarbons and related constituents in soil samples collected are all below Washington State Department of Ecology Model Toxics Control Act (MTCA) Method A cleanup levels.

SITE DESCRIPTION AND BACKGROUND

The Jiffy Lube facility located at 4902 25th Ave NE in Seattle, Washington (site; Figure 1), consists of a two-story split level structure. The Jiffy Lube site boundaries are a residential apartment complex to the north, a road 25th Ave NE to the west, a parking lot



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Mr. John Bails
August 6, 2008

down ramp to the south, and an Office Depot parking lot to the east. The Jiffy Lube service bays are located in the upper level of the building and a storage room for above-ground storage tanks (ASTs) is located in the lower-level. The east backdoor of the storage room opens to an Office Depot parking lot. The lower-level of the building is also occupied by La Escuelita Bilingual School Daycare (Figure 2). The groundwater flow direction is believed to be to the southeast towards Lake Washington.

A summary of previous work performed at the site and site background is contained in Attachment A.

INVESTIGATION RESULTS

Drilling Dates: May 5, 2008

Drilling Company: Boart Longyear Company

Personnel: Bryan Palmer, Tim Mullin and Isabelle Leclerc-Morin of CRA directed the drilling activities under the supervision of Justin Foslien (Washington State Licensed Geologist #2540).

Drilling Method: Air-Knife / Hollow-stem auger

Number of Borings: During investigation, four borings were drilled by hollow-stem auger and completed as monitoring wells MW-1 through MW-4. The well specifications and soil types are described on the boring logs contained in Attachment B. The borings and well locations are shown on Figure 2.

Boring Depths: Monitoring well MW-1, MW-2, and MW-3 was drilled to 8.0 feet below ground surface (bgs). Monitoring well MW-4 was drilled to 13.0 feet bgs.

Groundwater Depths: Depth to groundwater was approximately 3.0 to 5.0 feet bgs.



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August 6, 2008

Soil Disposal:

Soil and construction debris generated from drilling were placed into six 55-gallon drums. The drums were sampled and profiled prior to transport and disposal by Phillip Services Corporation, Inc. Waste disposal manifests are included in Attachment C.

FINDINGS

Soil: The soil chemical analytical data are summarized in Table 1 and Table 2. Laboratory analytical reports are presented in Attachment D.

X ***Groundwater:*** No groundwater samples were collected during the installation of the monitoring wells.

Discussion

CRA observed shallow groundwater in the installed monitoring wells ranging from 3 to 5 feet bgs. The shallow water table correlates with the statement from Stewart Christensen, the Office Depot manager, who stated the Office Depot parking lot on the east site boundary of the Jiffy Lube was constructed on a former stream tributary.

Concentrations of all analytes within the soil samples collected are below MTCA Method A cleanup levels.

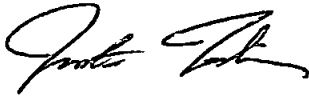
RECOMMENDATIONS

Quarterly monitoring of groundwater has been initiated to evaluate the extent of subsurface contamination within the groundwater beneath the site. / Results of the monitoring will be discussed in quarterly groundwater monitoring reports.

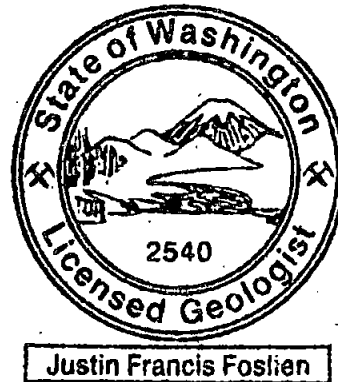
CLOSING

If you have any questions regarding the contents of this document, please call Justin Foslien at (425) 212-5111.

Sincerely,
Conestoga-Rovers & Associates, Inc.



Justin Foslien, LG
Project Geologist



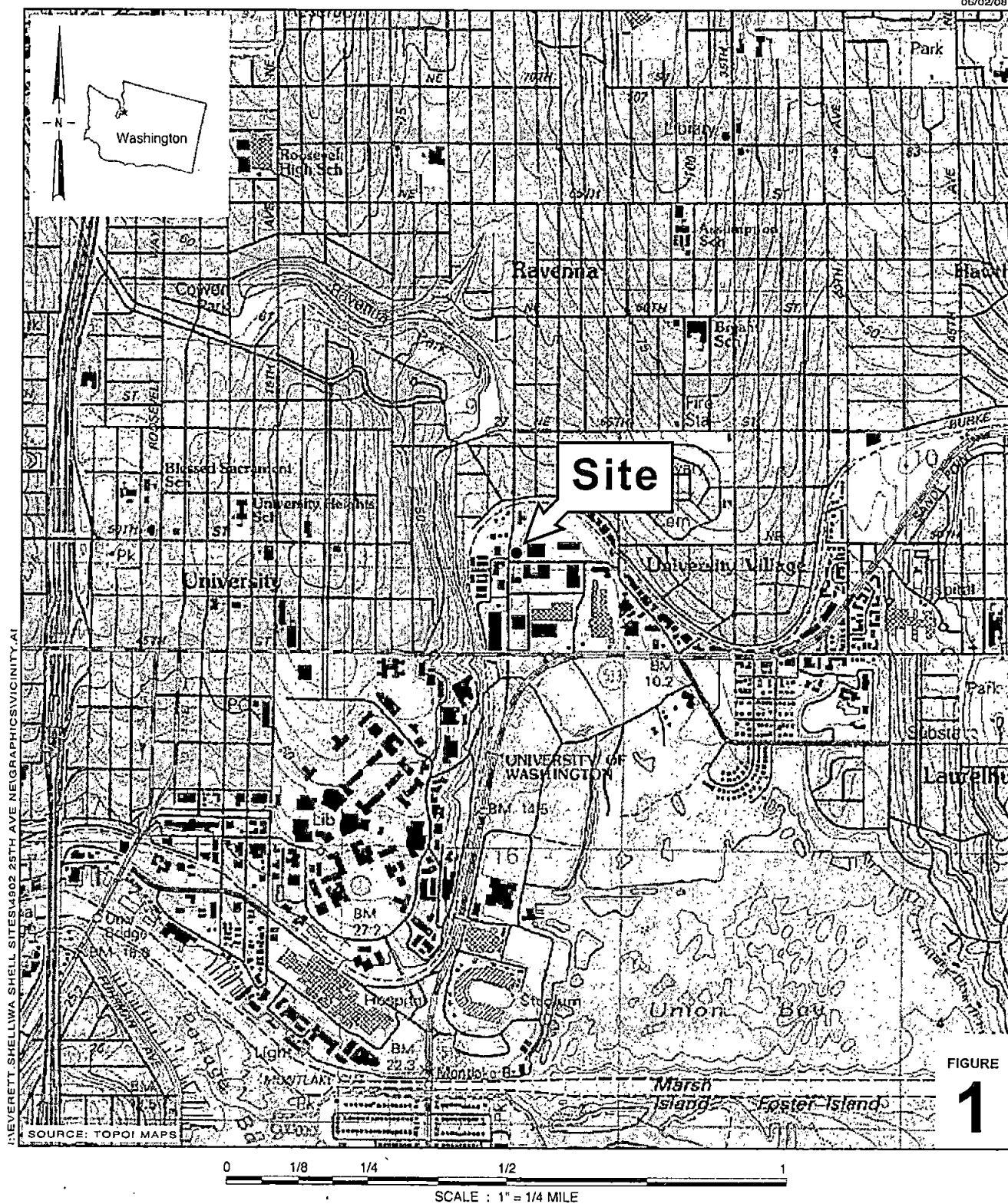
Figures: 1 - Vicinity Map
2 - Site Map

Tables: 1 - Summary of Soil Analytical Data – TPH, BTEX, EDB, EDC, LEAD
2 - Summary of Soil Analytical Data – PAHs

Attachments: A - Site Background
B - Boring Logs
C - Waste Disposal Manifests
D - Certified Analytical Reports

cc: Carol Campagna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
Mark Burquist, 1800 Creekside Place, Anacortes, WA 98221-2468
Attn: SVP/Real Estate, Office Depot, 2200 Old Germantown Road, Delray Beach, Florida
33445-8823
Attn: General Counsel/Real Estate, Office Depot, 2200 Old Germantown Road, Delray
Beach, Florida 33445-8823
Brian Clark, Heartland Automotive Services, Inc., 11308 Davenport Street, The Atrium
Building, Omaha, NB 68154-5645
Bob Cahill, Heartland Automotive Services, Inc., 15007 Woodinville-Redmond Rd. Suite
A, Woodinville, WA 98072

I:\Everett.Shell\WA Shell Sites\3505 Pacific Avenue, Olympia\Reports\SIR March 2008



Jiffy Lube No. 2075

4902 25th Avenue N.E.

Seattle, Washington



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Vicinity Map



TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS
TPH, BTEX, EDB, EDC, OXYGENATES, AND LEAD
SAP# 171156
4902 25th AVENUE NE SEATTLE, WASHINGTON

Analyte	MTCA Method A Cleanup Levels	MW1 @ 3.0'	MW2 @ 2.5'	MW3 @ 2.5'	MW4 @ 4.5'
Sample Date		5/5/2008	5/5/2008	5/5/2008	5/5/2008
Sample Depth (feet)		3.0	2.5	2.5	4.5
TPH-G	30/100 *	0.073	0.17	0.46	<0.11
TPH-D	2000	16	28	17	14
TPH-O	2000	39	69	78	36
MTBE	0.1	<0.0052	<0.0092	<0.0081	<0.0076
Benzene	0.03	<0.0052	<0.0092	<0.0081	<0.0076
Toluene	7	<0.0052	<0.0092	<0.0081	<0.0076
Ethylbenzene	6	<0.0052	<0.0092	<0.0081	<0.0076
Xylenes	9	<0.0052	<0.0092	<0.0081	<0.0076
1,2-Dichloroethane		<0.0052	<0.0092	<0.0081	<0.0076
1,2-Dibromoethane	0.005	<0.0041	<0.0073	<0.0065	<0.0061
t-Butyl Alcohol		<0.1	<0.180	<0.160	<0.150
tert-Amyl methyl ether		<0.0052	<0.0092	<0.0081	<0.0076
Ethyl tert-butyl ether		<0.0052	<0.0092	<0.0081	<0.0076
Diisopropyl Ether		<0.010	<0.018	<0.016	<0.015
Total Lead	250	4.43	8.19	4.7	13

Notes

All results in milligrams per kilogram

MTCA = Model Toxics Control Act

BOLD indicates exceedance of MTCA Cleanup Level

TPH-G = gasoline range organics (C4-C12)

TPH-D = diesel-range organics (C12-C24)

TPH-O = oil-range organics (C24-C32)

MTBE = methyl tert-butyl ether

Xylenes = o-xylene + m,p xylene

*higher cleanup level (100mg/kg) apply to gasoline mixture without benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture. All other gasoline mixtures use lower cleanup level (30 mg/kg)

TABLE 2

SUMMARY OF SOIL ANALYTICAL RESULTS

PAHs
SAP# 171156
4902 25TH AVENUE NE
SEATTLE, WASHINGTON

Analyte	MTCA Method A Cleanup Levels	MW1 @ 3.0'	MW2 @ 2.5'	MW3 @ 2.5'	MW4 @ 4.5'
Sample Date		5/5/2008	5/5/2008	5/5/2008	5/5/2008
Sample Depth (feet)		3.0	2.5	2.5	4.5
PAHs					
1-Methylnaphthalene		<0.051	<0.061	<0.049	<0.049
2-Methylnaphthalene		<0.051	<0.061	<0.049	<0.049
Acenaphthene		<0.051	<0.061	<0.049	<0.049
Acenaphthylene		<0.051	<0.061	<0.049	<0.049
Anthracene		<0.051	<0.061	<0.049	<0.049
Dibenzofuran		<0.051	<0.061	<0.049	<0.049
Fluoranthene		<0.051	<0.061	<0.049	<0.049
Flourene		<0.051	<0.061	<0.049	<0.049
Naphthalene	5	<0.051	<0.061	<0.049	<0.049
Phenanthrene		<0.051	<0.061	<0.049	<0.049
Pyrene		<0.051	<0.061	<0.049	<0.049
cPAHs					
Benzo(a)anthracene		<0.051	<0.061	<0.049	<0.049
Benzo(a)pyrene	0.1	<0.051	<0.061	<0.049	<0.049
Benzo(b)fluoranthene		<0.051	<0.061	<0.049	<0.049
Benzo(ghi)perylene		<0.051	<0.061	<0.049	<0.049
Benzo(k)fluoranthene		<0.051	<0.061	<0.049	<0.049
Chrysene		<0.051	<0.061	<0.049	<0.049
Dibenzo(a,h)anthracene		<0.051	<0.061	<0.049	<0.049
Indeno(1,2,3-cd)pyrene		<0.051	<0.061	<0.049	<0.049

Notes

All results in milligrams per kilogram

MTCA = Model Toxics Control Act

BOLD indicates exceedance of MTCA Cleanup Level

PAHs = polycyclic aromatic hydrocarbons

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

Attachment A
Site Background

SITE BACKGROUND

The Jiffy Lube facility located at 4902 25th Ave NE in Seattle, Washington (Figure 1), consisting of a two-story split level structure. The Jiffy Lube site boundaries are a residential apartment complex to the north, a road 25th Ave NE to the west, a parking lot down ramp to the south, and an Office Depot parking lot to the east. The Jiffy Lube service bays are located in the upper level of the building and a storage room for above-ground storage tanks (ASTs) is located in the lower-level. The east backdoor of the storage room opens to an Office Depot parking lot. The lower-level of the building is also occupied by La Escuelita Bilingual School Daycare (Figure 2). The Office Depot parking lot on the east site boundary was constructed on a former stream tributary. Evidence of high water volume at shallow depths during onsite purging of the new wells (MW-1 through MW-4) confirm a possible underground ground water stream. The groundwater flow direction is believed to be to the southeast towards Lake Washington.

1995 University Village Q Lube UST Closure Site Assessment: Nowicki & Associates conducted compliance sampling during the removal of one 3,000-gallon, new-oil underground storage tank (UST) and the in-place closure of a 500-gallon used-oil UST by APS services on March 29, 1995. Soil samples for the 3,000-gallon UST were below MTCA Method A cleanup levels. Soil samples SB-1 and SB-3 collected beneath the 500-gallon UST were above MTCA Method A cleanup levels for oil range petroleum hydrocarbons.

2006 Phase I Environmental Site Assessment: FINEnvironmental, Inc., completed a Phase I Environmental Site Assessment at the site on March 20, 2006. The assessment indicated that recognized environmental conditions existed at the site.

2006 Site Investigation: CRA formerly Cambria Environmental Technology, Inc. supervised the drilling of six soil borings (SB-6 through SB-11) on November 14, 2006. Soil samples SB-6 and SB-7 were above MTCA Method A cleanup levels for gasoline range petroleum hydrocarbons.

2007 Site Investigation: CRA supervised the drilling and installation of four groundwater monitoring wells MW-1 through MW-4 in order to further characterize the extent of impacted soil and groundwater down-gradient of the

Attachment B

Boring Logs



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: 4902 Seat

HOLE DESIGNATION: MW-1

PROJECT NUMBER: 241735

DATE COMPLETED: May 5, 2008

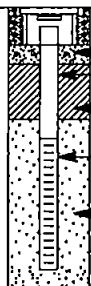
CLIENT: Shell Oil Products US

DRILLING METHOD: Hollow Stem Auger

LOCATION: 4900 25th Ave NE

FIELD PERSONNEL: B. Palmer

Seattle, Washington

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	BLOW COUNTS	PID [ppm]
2	ASPHALT	0.80		MW-1G00				8
4	SW-SAND, with gravel, with organics, medium grained, high porosity, dark reddish-brown, dry, no odor - coarse grained, gray, wet below 3 ft BGS							
6							12	
8	END OF BOREHOLE @ 7.5ft BGS	7.50		MW-1G02			14	
10							18	
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND ▼

CHEMICAL ANALYSIS ○

OVERBURDEN LOG 241735.GPJ CRA_CORP.GDT 7/18/08



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: 4902 Seat

PROJECT NUMBER: 241735

CLIENT: Shell Oil Products US

LOCATION: 4900 25th Ave NE

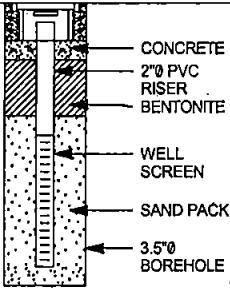
Seattle, Washington

HOLE DESIGNATION: MW-2

DATE COMPLETED: May 5, 2008

DRILLING METHOD: Hollow Stem Auger

FIELD PERSONNEL: B. Palmer

DEPTH ft BGS		STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
					NUMBER	INTERVAL	REC (ft)	BLOW COUNTS	PID [ppm]
		ASPHALT	0.80		MW2GS				1
2		SW-SAND, with gravel, with organics, medium grained, high porosity, dark reddish-brown, dry, no odor	2.50						
4		SP-GRAVELLY SAND, fine to medium grained, high porosity, olive-gray, moist, no odor							
6									
8		END OF BOREHOLE @ 7.5ft BGS	7.50	WELL DETAILS Screened interval: 3.50 to 7.00ft BGS Length: 3.5ft Diameter: 2in Slot Size: 10 Material: PVC Seal: 1.50 to 3.00ft BGS Material: BENTONITE Sand Pack: 3.50 to 7.50ft BGS Material: SAND	MW2GS		7 10 12		1.8
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND 

CHEMICAL ANALYSIS 

OVERBURDEN LOG 241735.GPJ, CRA CORP.GDT 7/18/08

OVERBURDEN LOG 241735.GPJ CRA_CORP.GDT 7/18/08



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: 4902 Seat

PROJECT NUMBER: 241735

CLIENT: Shell Oil Products US

LOCATION: 4900 25th Ave NE

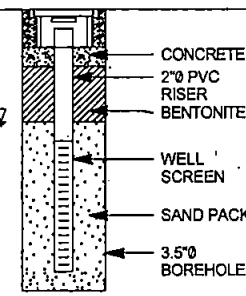
Seattle, Washington

HOLE DESIGNATION: MW-3

DATE COMPLETED: May 5, 2008

DRILLING METHOD: Hollow Stem Auger

FIELD PERSONNEL: B. Palmer

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	BLOW COUNTS	PID [ppm]
2	ASPHALT	0.80						
	SW-SAND, with cobbles, with organics, coarse grained, high porosity, dark reddish-brown, moist, no odor	2.50						1.8
4	SP-GRAVELLY SAND, fine to medium grained, high porosity, olive-gray, moist, no odor							
6								
8	END OF BOREHOLE @ 7.5ft BGS	7.50					1 2 7	3
10			<u>WELL DETAILS</u> Screened Interval: 3.50 to 7.00ft BGS Length: 3.5ft Diameter: 2in Slot Size: 10 Material: PVC Seal: 1.50 to 3.00ft BGS Material: BENTONITE Sand Pack: 3.50 to 7.50ft BGS Material: SAND					
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 241735.GPJ CRA CORP.GDT 7/18/08



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: 4902 Seat

HOLE DESIGNATION: MW-4

PROJECT NUMBER: 241735

DATE COMPLETED: May 5, 2008

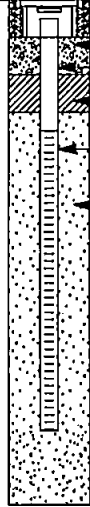
CLIENT: Shell Oil Products US

DRILLING METHOD: Hollow Stem Auger

LOCATION: 4900 25th Ave NE

FIELD PERSONNEL: B. Palmer

Seattle, Washington

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	BLOW COUNTS	PID (ppm)
0.80	ASPHALT	0.80						
2	SW-SAND, medium grained, high porosity, dark reddish-brown, dry, no odor							
4	- trace organics, fine grained, dark brown, wet, low water return below 4.5 ft BGS							14.1
6								
8								
10								
12								
13.00	END OF BOREHOLE @ 13.0ft BGS	13.00					6 12 24	
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS

Screened interval:

3.50 to 11.50ft BGS

Length: 8ft

Diameter: 2in

Slot Size: 10

Material: PVC

Seal:

2.00 to 3.00ft BGS

Material: BENTONITE

Sand Pack:

3.00 to 13.50ft BGS

Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND 
CHEMICAL ANALYSIS 

OVERBURDEN LOG 241735.GPJ CRA CORP.GDT 7/18/08

Attachment C
Waste Disposal Manifest

PSC

***24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 ***

SHIPPING PAPER

Lading Manifest: 42419-08

SHIPPER / CUSTOMER SHELL OIL PRODUCTS US NOB 300-F08		DELIVERY DATE	JOB # 858251
ADDRESS 12700 NORTHBOROUGH DR		POINT OF CONTACT RAY WALDING	
CITY, STATE, ZIP HOUSTON TX 77067		PHONE # (281)874-2247	
CARRIER / TRANSPORTER BURLINGTON ENVIRONMENTAL, INC.		PHONE # (253)383-3044	
CONSIGNEE / FACILITY BURLINGTON ENVIRONMENTAL, INC.		POINT OF CONTACT	
ADDRESS 20245 77TH AVENUE SOUTH		PHONE # (253)872-8030	
CITY, STATE, ZIP KENT , WA 98032			

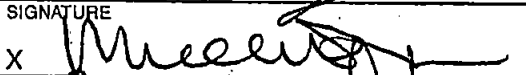
HAZ	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	Containers No.	Type	Total Quantity	UOM
A	SOIL WITH GASOLINE AND DIESEL, NON HAZARDOUS, NON-DOT REGULATED	2	DM	450	P
B					
C					
D					

Special Handling Instruction and Additional Information:

a) 350039-03 - NON HAZ SOIL - LFB01 STAB01 (4) Shell Engineer: Carol Campagna, CC#2075, Site Address: (4902 25th Avenue NE Seattle, WA. 98105), RIPR#69159, Kent: Mail BOLs to Karl Dupler (CRA, 5900 Hollis St. Suite A, Emeryville, CA. 94608)

Placards Provided YES _____ NO _____

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, vessel, and rail according to applicable international and national government regulations.

(SHIPPER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X Eric Ming on behalf of Shell Oil Products	X 	6	13	08
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X MARK BARTON	X 	06	19	08
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X Natasha Ger	X 	6	19	08

CONSIGNEE

JUN 19 PM 2:09



***24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 ***

SHIPPING PAPER

Lading Manifest: 42416-08

SHIPPER / CUSTOMER SHELL OIL PRODUCTS US. NOB 300-F08		DELIVERY DATE		JOB # 858251	
ADDRESS 12700 NORTHBOROUGH DR		POINT OF CONTACT RAY WALDING			
CITY, STATE, ZIP HOUSTON TX 77067		PHONE # (281)874-2247			
CARRIER / TRANSPORTER BURLINGTON ENVIRONMENTAL, INC.		PHONE # (253)383-3044			
CONSIGNEE / FACILITY BURLINGTON ENVIRONMENTAL, INC.		POINT OF CONTACT			
ADDRESS 20245 77TH AVENUE SOUTH		PHONE # (253)872-8030			
CITY, STATE, ZIP KENT , WA 98032					
HAZ	US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	Containers No.	Type	Total Quantity	UCM
A	SOIL WITH GASOLINE AND DIESEL, NON HAZARDOUS, NON-DOT REGULATED	2	DM	1350	P
B					
C					
D					

Special Handling Instruction and Additional Information:

a) 350039-03 - NON HAZ SOIL - LFB01 LFB01 STAB01 (1) Shell Engineer: Carol Campagna, CC#2875, Site Address: (4902 25th Avenue NE Seattle, WA. 98105), RHP#69136, Kent: Mail BOLs to Kari Dupler (CRA, 5900 Hollis St. Suite A, Emeryville, CA. 94608)

Placards Provided YES _____ NO _____

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, vessel, and rail according to applicable international and national government regulations.

(SHIPPER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X Eric Ming on behalf of Shell Oil Products	X <i>Eric Ming</i>	6	13	08
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X MARK BARBER	X <i>Mark Barber</i>	06	19	08
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X Natasha Gier	X <i>Natasha Gier</i>	6	19	08

CONSIGNEE

JUN 19 PM 2:09

PSC

***24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 ***

SHIPPING PAPER

Lading Manifest: 42418-08

SHIPPER / CUSTOMER SHELL OIL PRODUCTS US NOB 300-F08		DELIVERY DATE	JOB # 858251
ADDRESS 12700 NORTHBOROUGH DR		POINT OF CONTACT RAY WALDING	
CITY, STATE, ZIP HOUSTON TX 77067		PHONE # (281)874-2247	
CARRIER / TRANSPORTER BURLINGTON ENVIRONMENTAL, INC.		PHONE # (253)383-3044	
CONSIGNEE / FACILITY BURLINGTON ENVIRONMENTAL, INC.		POINT OF CONTACT	
ADDRESS 20245 77TH AVENUE SOUTH		PHONE # (253)872-8030	
CITY, STATE, ZIP KENT , WA 98032			

HAZ	US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	Containers No.	Type	Total Quantity	UOM
A	UN1203 GASOLINE MIXTURE 3 PG11 ERG(128)	2	DM	80	G
B					
C					
D					

Special Handling Instruction and Additional Information:

a) SHELLAECPROD-01 - RECOVERABLE PRODUCTS - AP05 APB01 APB05 WAT05 WATB05 WATB06 WATB07 AP01 (3) Shell Engineer: Carol Campagna, CC#2875, Site Address: (4902 25th Avenue NE Seattle, WA. 98105), HPR#69160, Kent: Mail BOLs to Karl Dupler (CHA, 5900 Hollis St. Suite A, Emeryville, CA. 94608)

Placards Provided YES _____ NO _____

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, vessel, and rail according to applicable international and national government regulations.

(SHIPPER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X Eric Ning on behalf of Shell Oil Products	X <i>Eric Ning</i>	6	13	08
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X MARK PARKER	X <i>Mark Parker</i>	06	19	08
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME	SIGNATURE	MONTH	DAY	YEAR
X Natasha Gler	X <i>Natasha Gler</i>	6	19	09

CONSIGNEE

JUN 19 PM 2:10

Attachment D
Certified Analytical Reports



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

Certificate of Analysis Number:

08050386

<u>Report To:</u> Conestoga Rovers and Associates Christine Schweigert 526 Commerce Center - Bldg. B 1420 80th Street SW, Suite A Everett WA 98203 ph: (425) 212-5100 fax:	<u>Project Name:</u> INC# 97605414, INC# 171156 <u>Site:</u> 4900 25th Ave. <u>Site Address:</u> 4900 25th Avenue Seattle WA <u>PO Number:</u> 4700002340 <u>State:</u> Washington <u>State Cert. No.:</u> C1350 <u>Date Reported:</u> 5/30/2008
--	---

This Report Contains A Total Of 36 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

6/2/2008

Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Shell Products US - Environmental Services

Certificate of Analysis Number:

08050386

<u>Report To:</u>	<u>Project Name:</u>	INC# 97605414, INC# 171156
Conestoga Rovers and Associates	<u>Site:</u>	4900 25th Ave.
Christine Schwegert	<u>Site Address:</u>	4900 25th Avenue
526 Commerce Center - Bldg. B		Seattle WA
1420 80th Street SW, Suite A	<u>PO Number:</u>	4700002340
Everett	<u>State:</u>	Washington
WA	<u>State Cert. No.:</u>	C1350
98203-	<u>Date Reported:</u>	5/30/2008
ph: (425) 212-5100		
fax:		

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Your sample "MW4 @ 4.5" (SPL ID: 08050386-01) was analyzed for the presence of Volatile Organics using SW846 Method 8260. The concentrations of some target analytes in this sample required that multiple dilutions and analysis of the sample be performed. In order to provide the lowest possible reporting limits for other target analytes, the Acetone concentrations on this sample is reported with an "E" qualifier indicating that the reported concentration is above the concentration of the highest point on the instrument calibration curve.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch IDs: R237191 & R237784 for the Volatile Organics analysis by SW846 Method SW8260B. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Eda Cardenas

08050386 Page 1

6/2/2008

Erica Cardenas
Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

Certificate of Analysis Number:

08050386

Report To: Conestoga Rovers and Associates
Christine Schweigert
526 Commerce Center - Bldg. B
1420 80th Street SW, Suite A
Everett
WA
98203-
ph: (425) 212-5100 fax: (425) 212-5199

Fax To:

Project Name: INC# 97605414, INC# 171156
Site: 4900 25th Ave.
Site Address: 4900 25th Avenue
Seattle WA
PO Number: 4700002340
State: Washington
State Cert. No.: C1350
Date Reported: 5/30/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW4 @ 4.5'	08050386-01	Soil	5/5/2008 9:00:00 AM	5/6/2008 10:00:00 AM		☐
MW1 @ 3.0'	08050386-02	Soil	5/5/2008 10:00:00 AM	5/6/2008 10:00:00 AM		☐
MW3 @ 2.5'	08050386-04	Soil	5/5/2008 11:50:00 AM	5/6/2008 10:00:00 AM		☐
MW2 @ 2.5'	08050386-05	Soil	5/5/2008 11:00:00 AM	5/6/2008 10:00:00 AM		☐

Erica Cardenas
Project Manager

6/2/2008

Date

Richard R. Reed
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW4 @ 4.5'

Collected: 05/05/2008 9:00

SPL Sample ID: 08050386-01

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	NWTPH-DX	Units: mg/kg-dry	
Diesel Range Organics (C12-C24)	14		7.5	1	05/15/08 22:46	NW	4443183
Oil Range Organics (C24-C32)	36		15	1	05/15/08 22:46	NW	4443183
Surr: n-Pentacosane	127		% 20-150	1	05/15/08 22:46	NW	4443183

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B/3630	05/07/2008 11:27	QMT	1.00

GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/kg-dry	
Gasoline Range Organics	ND		0.11	1	05/12/08 17:53	SFE	4433590
Surr: 1,4-Difluorobenzene	108		% 63-142	1	05/12/08 17:53	SFE	4433590
Surr: 4-Bromofluorobenzene	62.2		% 50-159	1	05/12/08 17:53	SFE	4433590

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 9:00	Field	1.47

METALS BY METHOD 6020, TOTAL				MCL	SW6020A	Units: mg/kg-dry	
Lead	13		0.747	1	05/16/08 5:36	AL_H	4441029

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	05/09/2008 14:40	DDW	1.00

PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	33.1		0	1	05/09/08 17:08	ESK	4428286

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW4 @ 4.5'

Collected: 05/05/2008 9:00

SPL Sample ID: 08050386-01

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SIM SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/kg-dry	
1-Methylnaphthalene	ND		49	1	05/24/08 18:39	S_G	4462356
2-Methylnaphthalene	ND		49	1	05/24/08 18:39	S_G	4462356
Acenaphthene	ND		49	1	05/24/08 18:39	S_G	4462356
Acenaphthylene	ND		49	1	05/24/08 18:39	S_G	4462356
Anthracene	ND		49	1	05/24/08 18:39	S_G	4462356
Benz(a)anthracene	ND		49	1	05/24/08 18:39	S_G	4462356
Benzo(a)pyrene	ND		49	1	05/24/08 18:39	S_G	4462356
Benzo(b)fluoranthene	ND		49	1	05/24/08 18:39	S_G	4462356
Benzo(g,h,i)perylene	ND		49	1	05/24/08 18:39	S_G	4462356
Benzo(k)fluoranthene	ND		49	1	05/24/08 18:39	S_G	4462356
Chrysene	ND		49	1	05/24/08 18:39	S_G	4462356
Dibenz(a,h)anthracene	ND		49	1	05/24/08 18:39	S_G	4462356
Dibenzofuran	ND		49	1	05/24/08 18:39	S_G	4462356
Fluoranthene	ND		49	1	05/24/08 18:39	S_G	4462356
Fluorene	ND		49	1	05/24/08 18:39	S_G	4462356
Indeno(1,2,3-cd)pyrene	ND		49	1	05/24/08 18:39	S_G	4462356
Naphthalene	ND		49	1	05/24/08 18:39	S_G	4462356
Phenanthrene	ND		49	1	05/24/08 18:39	S_G	4462356
Pyrene	ND		49	1	05/24/08 18:39	S_G	4462356
Surr: 2-Fluorobiphenyl	72.8		% 15-140	1	05/24/08 18:39	S_G	4462356
Surr: Nitrobenzene-d5	84.9		% 18-129	1	05/24/08 18:39	S_G	4462356
Surr: Terphenyl-d14	72.4		% 18-166	1	05/24/08 18:39	S_G	4462356

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	05/12/2008 16:34	QMT	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW4 @ 4.5'

Collected: 05/05/2008 9:00

SPL Sample ID: 08050386-01

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg-dry	
1,1,1,2-Tetrachloroethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,1,1-Trichloroethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,1,2,2-Tetrachloroethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,1,2-Trichloroethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,1-Dichloroethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,1-Dichloroethene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,1-Dichloropropene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2,3-Trichlorobenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2,3-Trichloropropane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2,4-Trichlorobenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2,4-Trimethylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2-Dibromo-3-chloropropane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2-Dibromoethane	ND		6.1	1	05/11/08 17:17	D_R	4432269
1,2-Dichlorobenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2-Dichloroethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2-Dichloropropane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,3,5-Trimethylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,3-Dichlorobenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,3-Dichloropropane	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,4-Dichlorobenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
2,2-Dichloropropane	ND		7.6	1	05/11/08 17:17	D_R	4432269
2-Butanone	130		30	1	05/11/08 17:17	D_R	4432269
2-Chloroethyl vinyl ether	ND		15	1	05/11/08 17:17	D_R	4432269
2-Chlorotoluene	7.6		7.6	1	05/11/08 17:17	D_R	4432269
2-Hexanone	ND		15	1	05/11/08 17:17	D_R	4432269
4-Chlorotoluene	ND		7.6	1	05/11/08 17:17	D_R	4432269
4-Isopropyltoluene	ND		7.6	1	05/11/08 17:17	D_R	4432269
4-Methyl-2-pentanone	ND		15	1	05/11/08 17:17	D_R	4432269
Acetone	390	E	150	1	05/11/08 17:17	D_R	4432269
Acrylonitrile	ND		76	1	05/11/08 17:17	D_R	4432269
Benzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Bromobenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Bromochloromethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
Bromodichloromethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
Bromoform	ND		7.6	1	05/11/08 17:17	D_R	4432269
Bromomethane	ND		15	1	05/11/08 17:17	D_R	4432269
Carbon disulfide	ND		7.6	1	05/11/08 17:17	D_R	4432269
Carbon tetrachloride	ND		7.6	1	05/11/08 17:17	D_R	4432269
Chlorobenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

DI - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW4 @ 4.5'

Collected: 05/05/2008 9:00

SPL Sample ID: 08050386-01

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroethane	ND		15	1	05/11/08 17:17	D_R	4432269
Chloroform	ND		7.6	1	05/11/08 17:17	D_R	4432269
Chloromethane	ND		15	1	05/11/08 17:17	D_R	4432269
Dibromochloromethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
Dibromomethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
Dichlorodifluoromethane	ND		15	1	05/11/08 17:17	D_R	4432269
Diisopropyl Ether	ND		15	1	05/11/08 17:17	D_R	4432269
Ethyl tert-butyl ether	ND		7.6	1	05/11/08 17:17	D_R	4432269
Ethylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Hexachlorobutadiene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Isopropylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Methyl tert-butyl ether	ND		7.6	1	05/11/08 17:17	D_R	4432269
Methylene chloride	ND		7.6	1	05/11/08 17:17	D_R	4432269
Naphthalene	ND		7.6	1	05/11/08 17:17	D_R	4432269
n-Butylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
n-Propylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
sec-Butylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Styrene	ND		7.6	1	05/11/08 17:17	D_R	4432269
t-Butyl Alcohol	ND		150	1	05/11/08 17:17	D_R	4432269
tert-Amyl methyl ether	ND		7.6	1	05/11/08 17:17	D_R	4432269
tert-Butylbenzene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Tetrachloroethene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Toluene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Trichloroethene	ND		7.6	1	05/11/08 17:17	D_R	4432269
Trichlorofluoromethane	ND		7.6	1	05/11/08 17:17	D_R	4432269
Vinyl acetate	ND		7.6	1	05/11/08 17:17	D_R	4432269
Vinyl chloride	ND		7.6	1	05/11/08 17:17	D_R	4432269
cis-1,2-Dichloroethene	ND		7.6	1	05/11/08 17:17	D_R	4432269
cis-1,3-Dichloropropene	ND		7.6	1	05/11/08 17:17	D_R	4432269
m,p-Xylene	ND		7.6	1	05/11/08 17:17	D_R	4432269
o-Xylene	ND		7.6	1	05/11/08 17:17	D_R	4432269
trans-1,2-Dichloroethene	ND		7.6	1	05/11/08 17:17	D_R	4432269
trans-1,3-Dichloropropene	ND		7.6	1	05/11/08 17:17	D_R	4432269
1,2-Dichloroethene (total)	ND		7.62	1	05/11/08 17:17	D_R	4432269
Xylenes, Total	ND		7.62	1	05/11/08 17:17	D_R	4432269
Surr: 1,2-Dichloroethane-d4	96.1		% 41-155	1	05/11/08 17:17	D_R	4432269
Surr: 4-Bromofluorobenzene	96.7		% 64-147	1	05/11/08 17:17	D_R	4432269
Surr: Toluene-d8	109		% 52-152	1	05/11/08 17:17	D_R	4432269

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 9:00	Field	1.02

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW1 @ 3.0'

Collected: 05/05/2008 10:00

SPL Sample ID: 08050386-02

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	NWTPH-DX	Units: mg/kg-dry	
Diesel Range Organics (C12-C24)	16		7.7	1	05/15/08 17:10	NW	4443156
Oil Range Organics (C24-C32)	39		15	1	05/15/08 17:10	NW	4443156
Surr: n-Pentacosane	121		% 20-150	1	05/15/08 17:10	NW	4443156

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B/3630	05/12/2008 17:41	QMT	1.00

GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/kg-dry	
Gasoline Range Organics	0.073		0.052	1	05/14/08 4:11	SFE	4436178
Surr: 1,4-Difluorobenzene	102		% 63-142	1	05/14/08 4:11	SFE	4436178
Surr: 4-Bromofluorobenzene	84.7		% 50-159	1	05/14/08 4:11	SFE	4436178

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 10:00	Field	0.69

METALS BY METHOD 6020, TOTAL				MCL	SW6020A	Units: mg/kg-dry	
Lead	4.43		0.766	1	05/16/08 5:44	AL_H	4441030

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	05/09/2008 14:40	DDW	1.00

PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	34.7		0	1	05/09/08 17:08	ESK	4428285

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW1 @ 3.0'

Collected: 05/05/2008 10:00

SPL Sample ID: 08050386-02

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SIM SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/kg-dry	
1-Methylnaphthalene	ND		51	1	05/24/08 19:12	S_G	4462357
2-Methylnaphthalene	ND		51	1	05/24/08 19:12	S_G	4462357
Acenaphthene	ND		51	1	05/24/08 19:12	S_G	4462357
Acenaphthylene	ND		51	1	05/24/08 19:12	S_G	4462357
Anthracene	ND		51	1	05/24/08 19:12	S_G	4462357
Benz(a)anthracene	ND		51	1	05/24/08 19:12	S_G	4462357
Benzo(a)pyrene	ND		51	1	05/24/08 19:12	S_G	4462357
Benzo(b)fluoranthene	ND		51	1	05/24/08 19:12	S_G	4462357
Benzo(g,h,i)perylene	ND		51	1	05/24/08 19:12	S_G	4462357
Benzo(k)fluoranthene	ND		51	1	05/24/08 19:12	S_G	4462357
Chrysene	ND		51	1	05/24/08 19:12	S_G	4462357
Dibenz(a,h)anthracene	ND		51	1	05/24/08 19:12	S_G	4462357
Dibenzofuran	ND		51	1	05/24/08 19:12	S_G	4462357
Fluoranthene	ND		51	1	05/24/08 19:12	S_G	4462357
Fluorene	ND		51	1	05/24/08 19:12	S_G	4462357
Indeno(1,2,3-cd)pyrene	ND		51	1	05/24/08 19:12	S_G	4462357
Naphthalene	ND		51	1	05/24/08 19:12	S_G	4462357
Phenanthrene	ND		51	1	05/24/08 19:12	S_G	4462357
Pyrene	ND		51	1	05/24/08 19:12	S_G	4462357
Surr: 2-Fluorobiphenyl	75.3		% 15-140	1	05/24/08 19:12	S_G	4462357
Surr: Nitrobenzene-d5	92.4		% 18-129	1	05/24/08 19:12	S_G	4462357
Surr: Terphenyl-d14	79.6		% 18-166	1	05/24/08 19:12	S_G	4462357

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	05/12/2008 16:34	QMT	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW1 @ 3.0'

Collected: 05/05/2008 10:00

SPL Sample ID: 08050386-02

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg-dry	
1,1,1,2-Tetrachloroethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,1,1-Trichloroethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,1,2,2-Tetrachloroethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,1,2-Trichloroethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,1-Dichloroethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,1-Dichloroethene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,1-Dichloropropene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2,3-Trichlorobenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2,3-Trichloropropane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2,4-Trichlorobenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2,4-Trimethylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2-Dibromo-3-chloropropane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2-Dibromoethane	ND		4.1	1	05/11/08 17:39	D_R	4432272
1,2-Dichlorobenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2-Dichloroethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2-Dichloropropane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,3,5-Trimethylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,3-Dichlorobenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,3-Dichloropropane	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,4-Dichlorobenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
2,2-Dichloropropane	ND		5.2	1	05/11/08 17:39	D_R	4432272
2-Butanone	33		21	1	05/11/08 17:39	D_R	4432272
2-Chloroethyl vinyl ether	ND		10	1	05/11/08 17:39	D_R	4432272
2-Chlorotoluene	ND		5.2	1	05/11/08 17:39	D_R	4432272
2-Hexanone	ND		10	1	05/11/08 17:39	D_R	4432272
4-Chlorotoluene	ND		5.2	1	05/11/08 17:39	D_R	4432272
4-Isopropyltoluene	ND		5.2	1	05/11/08 17:39	D_R	4432272
4-Methyl-2-pentanone	ND		10	1	05/11/08 17:39	D_R	4432272
Acetone	110		100	1	05/11/08 17:39	D_R	4432272
Acrylonitrile	ND		52	1	05/11/08 17:39	D_R	4432272
Benzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Bromobenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Bromochloromethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
Bromodichloromethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
Bromoform	ND		5.2	1	05/11/08 17:39	D_R	4432272
Bromomethane	ND		10	1	05/11/08 17:39	D_R	4432272
Carbon disulfide	ND		5.2	1	05/11/08 17:39	D_R	4432272
Carbon tetrachloride	ND		5.2	1	05/11/08 17:39	D_R	4432272
Chlorobenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW1 @ 3.0'

Collected: 05/05/2008 10:00 SPL Sample ID: 08050386-02

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroethane	ND		10	1	05/11/08 17:39	D_R	4432272
Chloroform	ND		5.2	1	05/11/08 17:39	D_R	4432272
Chloromethane	ND		10	1	05/11/08 17:39	D_R	4432272
Dibromochloromethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
Dibromomethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
Dichlorodifluoromethane	ND		10	1	05/11/08 17:39	D_R	4432272
Diisopropyl Ether	ND		10	1	05/11/08 17:39	D_R	4432272
Ethyl tert-butyl ether	ND		5.2	1	05/11/08 17:39	D_R	4432272
Ethylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Hexachlorobutadiene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Isopropylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Methyl tert-butyl ether	ND		5.2	1	05/11/08 17:39	D_R	4432272
Methylene chloride	ND		5.2	1	05/11/08 17:39	D_R	4432272
Naphthalene	ND		5.2	1	05/11/08 17:39	D_R	4432272
n-Butylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
n-Propylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
sec-Butylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Styrene	ND		5.2	1	05/11/08 17:39	D_R	4432272
t-Butyl Alcohol	ND		100	1	05/11/08 17:39	D_R	4432272
tert-Amyl methyl ether	ND		5.2	1	05/11/08 17:39	D_R	4432272
tert-Butylbenzene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Tetrachloroethene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Toluene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Trichloroethene	ND		5.2	1	05/11/08 17:39	D_R	4432272
Trichlorofluoromethane	ND		5.2	1	05/11/08 17:39	D_R	4432272
Vinyl acetate	ND		5.2	1	05/11/08 17:39	D_R	4432272
Vinyl chloride	ND		5.2	1	05/11/08 17:39	D_R	4432272
cis-1,2-Dichloroethene	ND		5.2	1	05/11/08 17:39	D_R	4432272
cis-1,3-Dichloropropene	ND		5.2	1	05/11/08 17:39	D_R	4432272
m,p-Xylene	ND		5.2	1	05/11/08 17:39	D_R	4432272
o-Xylene	ND		5.2	1	05/11/08 17:39	D_R	4432272
trans-1,2-Dichloroethene	ND		5.2	1	05/11/08 17:39	D_R	4432272
trans-1,3-Dichloropropene	ND		5.2	1	05/11/08 17:39	D_R	4432272
1,2-Dichloroethene (total)	ND		5.2	1	05/11/08 17:39	D_R	4432272
Xylenes, Total	ND		5.2	1	05/11/08 17:39	D_R	4432272
Surr: 1,2-Dichloroethane-d4	97.3		% 41-155	1	05/11/08 17:39	D_R	4432272
Surr: 4-Bromofluorobenzene	97.1		% 64-147	1	05/11/08 17:39	D_R	4432272
Surr: Toluene-d8	108		% 52-152	1	05/11/08 17:39	D_R	4432272

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 10:00	Field	0.68

Qualifiers:

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B/V - Analyte detected in the associated Method Blank
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW3 @ 2.5'

Collected: 05/05/2008 11:50 SPL Sample ID: 08050386-04

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	NWTPH-DX	Units: mg/kg-dry	
Diesel Range Organics (C12-C24)	17		7.4	1	05/15/08 23:31	NW	4443185
Oil Range Organics (C24-C32)	78		15	1	05/15/08 23:31	NW	4443185
Surr: n-Pentacosane	130		% 20-150	1	05/15/08 23:31	NW	4443185

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B/3630	05/07/2008 11:27	QMT	1.00

GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/kg-dry	
Gasoline Range Organics	0.46		0.079	1	05/12/08 20:20	SFE	4433593
Surr: 1,4-Difluorobenzene	125		% 63-142	1	05/12/08 20:20	SFE	4433593
Surr: 4-Bromofluorobenzene	71.6		% 50-159	1	05/12/08 20:20	SFE	4433593

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 11:50	Field	1.06

METALS BY METHOD 6020, TOTAL				MCL	SW6020A	Units: mg/kg-dry	
Lead	4.7		0.743	1	05/16/08 5:52	AL_H	4441031

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	05/09/2008 14:40	DDW	1.00

PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	32.7		0	1	05/09/08 17:08	ESK	4428284

Qualifiers:

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TNTC - Too numerous to count

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW3 @ 2.5'

Collected: 05/05/2008 11:50

SPL Sample ID: 08050386-04

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SIM SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/kg-dry	
1-Methylnaphthalene	ND		49	1	05/24/08 19:46	S_G	4462358
2-Methylnaphthalene	ND		49	1	05/24/08 19:46	S_G	4462358
Acenaphthene	ND		49	1	05/24/08 19:46	S_G	4462358
Acenaphthylene	ND		49	1	05/24/08 19:46	S_G	4462358
Anthracene	ND		49	1	05/24/08 19:46	S_G	4462358
Benz(a)anthracene	ND		49	1	05/24/08 19:46	S_G	4462358
Benzo(a)pyrene	ND		49	1	05/24/08 19:46	S_G	4462358
Benzo(b)fluoranthene	ND		49	1	05/24/08 19:46	S_G	4462358
Benzo(g,h,i)perylene	ND		49	1	05/24/08 19:46	S_G	4462358
Benzo(k)fluoranthene	ND		49	1	05/24/08 19:46	S_G	4462358
Chrysene	ND		49	1	05/24/08 19:46	S_G	4462358
Dibenz(a,h)anthracene	ND		49	1	05/24/08 19:46	S_G	4462358
Dibenzofuran	ND		49	1	05/24/08 19:46	S_G	4462358
Fluoranthene	ND		49	1	05/24/08 19:46	S_G	4462358
Fluorene	ND		49	1	05/24/08 19:46	S_G	4462358
Indeno(1,2,3-cd)pyrene	ND		49	1	05/24/08 19:46	S_G	4462358
Naphthalene	ND		49	1	05/24/08 19:46	S_G	4462358
Phenanthrene	ND		49	1	05/24/08 19:46	S_G	4462358
Pyrene	ND		49	1	05/24/08 19:46	S_G	4462358
Surr: 2-Fluorobiphenyl	65.0	%	15-140	1	05/24/08 19:46	S_G	4462358
Surr: Nitrobenzene-d5	84.0	%	18-129	1	05/24/08 19:46	S_G	4462358
Surr: Terphenyl-d14	68.6	%	18-166	1	05/24/08 19:46	S_G	4462358

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	05/12/2008 16:34	QMT	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW3 @ 2.5'

Collected: 05/05/2008 11:50

SPL Sample ID: 08050386-04

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg-dry	
1,1,1,2-Tetrachloroethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,1,1-Trichloroethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,1,2,2-Tetrachloroethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,1,2-Trichloroethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,1-Dichloroethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,1-Dichloroethene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,1-Dichloropropene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2,3-Trichlorobenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2,3-Trichloropropane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2,4-Trichlorobenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2,4-Trimethylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2-Dibromo-3-chloropropane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2-Dibromoethane	ND		6.5	1	05/15/08 16:39	D_R	4441331
1,2-Dichlorobenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2-Dichloroethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2-Dichloropropane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,3,5-Trimethylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,3-Dichlorobenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,3-Dichloropropane	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,4-Dichlorobenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
2,2-Dichloropropane	ND		8.1	1	05/15/08 16:39	D_R	4441331
2-Butanone	80		32	1	05/15/08 16:39	D_R	4441331
2-Chloroethyl vinyl ether	ND		16	1	05/15/08 16:39	D_R	4441331
2-Chlorotoluene	ND		8.1	1	05/15/08 16:39	D_R	4441331
2-Hexanone	ND		16	1	05/15/08 16:39	D_R	4441331
4-Chlorotoluene	ND		8.1	1	05/15/08 16:39	D_R	4441331
4-Isopropyltoluene	ND		8.1	1	05/15/08 16:39	D_R	4441331
4-Methyl-2-pentanone	ND		16	1	05/15/08 16:39	D_R	4441331
Acetone	270		160	1	05/15/08 16:39	D_R	4441331
Acrylonitrile	ND		81	1	05/15/08 16:39	D_R	4441331
Benzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Bromobenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Bromochloromethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
Bromodichloromethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
Bromoform	ND		8.1	1	05/15/08 16:39	D_R	4441331
Bromomethane	ND		16	1	05/15/08 16:39	D_R	4441331
Carbon disulfide	ND		8.1	1	05/15/08 16:39	D_R	4441331
Carbon tetrachloride	ND		8.1	1	05/15/08 16:39	D_R	4441331
Chlorobenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW3 @ 2.5'

Collected: 05/05/2008 11:50

SPL Sample ID: 08050386-04

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroethane	ND		16	1	05/15/08 16:39	D_R	4441331
Chloroform	ND		8.1	1	05/15/08 16:39	D_R	4441331
Chloromethane	ND		16	1	05/15/08 16:39	D_R	4441331
Dibromochloromethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
Dibromomethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
Dichlorodifluoromethane	ND		16	1	05/15/08 16:39	D_R	4441331
Diisopropyl Ether	ND		16	1	05/15/08 16:39	D_R	4441331
Ethyl tert-butyl ether	ND		8.1	1	05/15/08 16:39	D_R	4441331
Ethylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Hexachlorobutadiene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Isopropylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Methyl tert-butyl ether	ND		8.1	1	05/15/08 16:39	D_R	4441331
Methylene chloride	ND		8.1	1	05/15/08 16:39	D_R	4441331
Naphthalene	ND		8.1	1	05/15/08 16:39	D_R	4441331
n-Butylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
n-Propylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
sec-Butylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Styrene	ND		8.1	1	05/15/08 16:39	D_R	4441331
t-Butyl Alcohol	ND		160	1	05/15/08 16:39	D_R	4441331
tert-Amyl methyl ether	ND		8.1	1	05/15/08 16:39	D_R	4441331
tert-Butylbenzene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Tetrachloroethene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Toluene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Trichloroethene	ND		8.1	1	05/15/08 16:39	D_R	4441331
Trichlorofluoromethane	ND		8.1	1	05/15/08 16:39	D_R	4441331
Vinyl acetate	ND		8.1	1	05/15/08 16:39	D_R	4441331
Vinyl chloride	ND		8.1	1	05/15/08 16:39	D_R	4441331
cis-1,2-Dichloroethene	ND		8.1	1	05/15/08 16:39	D_R	4441331
cis-1,3-Dichloropropene	ND		8.1	1	05/15/08 16:39	D_R	4441331
m,p-Xylene	ND		8.1	1	05/15/08 16:39	D_R	4441331
o-Xylene	ND		8.1	1	05/15/08 16:39	D_R	4441331
trans-1,2-Dichloroethene	ND		8.1	1	05/15/08 16:39	D_R	4441331
trans-1,3-Dichloropropene	ND		8.1	1	05/15/08 16:39	D_R	4441331
1,2-Dichloroethene (total)	ND		8.08	1	05/15/08 16:39	D_R	4441331
Xylenes, Total	ND		8.1	1	05/15/08 16:39	D_R	4441331
Surr: 1,2-Dichloroethane-d4	90.5		% 41-155	1	05/15/08 16:39	D_R	4441331
Surr: 4-Bromofluorobenzene	93.3		% 64-147	1	05/15/08 16:39	D_R	4441331
Surr: Toluene-d8	108		% 52-152	1	05/15/08 16:39	D_R	4441331

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 11:50	Field	1.09

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW2 @ 2.5'

Collected: 05/05/2008 11:00 SPL Sample ID: 08050386-05

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	NWTPH-DX	Units: mg/kg-dry	
Diesel Range Organics (C12-C24)	28		9.2	1	05/15/08 18:17	NW	4443159
Oil Range Organics (C24-C32)	69		18	1	05/15/08 18:17	NW	4443159
Surr: n-Pentacosane	132		% 20-150	1	05/15/08 18:17	NW	4443159

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B/3630	05/12/2008 17:41	QMT	1.00

GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/kg-dry	
Gasoline Range Organics	0.17		0.098	1	05/12/08 20:50	SFE	4433594
Surr: 1,4-Difluorobenzene	113		% 63-142	1	05/12/08 20:50	SFE	4433594
Surr: 4-Bromofluorobenzene	60.0		% 50-159	1	05/12/08 20:50	SFE	4433594

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 11:00	Field	1.06

METALS BY METHOD 6020, TOTAL				MCL	SW6020A	Units: mg/kg-dry	
Lead	8.19		0.917	1	05/16/08 6:00	AL_H	4441032

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3050B	05/09/2008 14:40	DDW	1.00

PERCENT MOISTURE				MCL	D2216	Units: wt%	
Percent Moisture	45.5		0	1	05/09/08 17:08	ESK	4428283

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW2 @ 2.5'

Collected: 05/05/2008 11:00

SPL Sample ID: 08050386-05

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SIM SEMIVOLATILES ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/kg-dry	
1-Methylnaphthalene	ND		61	1	05/24/08 20:19	S_G	4462359
2-Methylnaphthalene	ND		61	1	05/24/08 20:19	S_G	4462359
Acenaphthene	ND		61	1	05/24/08 20:19	S_G	4462359
Acenaphthylene	ND		61	1	05/24/08 20:19	S_G	4462359
Anthracene	ND		61	1	05/24/08 20:19	S_G	4462359
Benz(a)anthracene	ND		61	1	05/24/08 20:19	S_G	4462359
Benzo(a)pyrene	ND		61	1	05/24/08 20:19	S_G	4462359
Benzo(b)fluoranthene	ND		61	1	05/24/08 20:19	S_G	4462359
Benzo(g,h,i)perylene	ND		61	1	05/24/08 20:19	S_G	4462359
Benzo(k)fluoranthene	ND		61	1	05/24/08 20:19	S_G	4462359
Chrysene	ND		61	1	05/24/08 20:19	S_G	4462359
Dibenz(a,h)anthracene	ND		61	1	05/24/08 20:19	S_G	4462359
Dibenzofuran	ND		61	1	05/24/08 20:19	S_G	4462359
Fluoranthene	ND		61	1	05/24/08 20:19	S_G	4462359
Fluorene	ND		61	1	05/24/08 20:19	S_G	4462359
Indeno(1,2,3-cd)pyrene	ND		61	1	05/24/08 20:19	S_G	4462359
Naphthalene	ND		61	1	05/24/08 20:19	S_G	4462359
Phenanthrene	ND		61	1	05/24/08 20:19	S_G	4462359
Pyrene	ND		61	1	05/24/08 20:19	S_G	4462359
Surr: 2-Fluorobiphenyl	51.5	%	15-140	1	05/24/08 20:19	S_G	4462359
Surr: Nitrobenzene-d5	69.5	%	18-129	1	05/24/08 20:19	S_G	4462359
Surr: Terphenyl-d14	57.4	%	18-166	1	05/24/08 20:19	S_G	4462359

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	05/12/2008 16:34	QMT	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW2 @ 2.5'

Collected: 05/05/2008 11:00

SPL Sample ID: 08050386-05

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg-dry	
1,1,1,2-Tetrachloroethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,1,1-Trichloroethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,1,2,2-Tetrachloroethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,1,2-Trichloroethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,1-Dichloroethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,1-Dichloroethene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,1-Dichloropropene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2,3-Trichlorobenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2,3-Trichloropropane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2,4-Trichlorobenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2,4-Trimethylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2-Dibromo-3-chloropropane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2-Dibromoethane	ND		7.3	1	05/11/08 18:23	D_R	4432275
1,2-Dichlorobenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2-Dichloroethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2-Dichloropropane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,3,5-Trimethylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,3-Dichlorobenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,3-Dichloropropane	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,4-Dichlorobenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
2,2-Dichloropropane	ND		9.2	1	05/11/08 18:23	D_R	4432275
2-Butanone	110		37	1	05/11/08 18:23	D_R	4432275
2-Chloroethyl vinyl ether	ND		18	1	05/11/08 18:23	D_R	4432275
2-Chlorotoluene	ND		9.2	1	05/11/08 18:23	D_R	4432275
2-Hexanone	ND		18	1	05/11/08 18:23	D_R	4432275
4-Chlorotoluene	ND		9.2	1	05/11/08 18:23	D_R	4432275
4-Isopropyltoluene	ND		9.2	1	05/11/08 18:23	D_R	4432275
4-Methyl-2-pentanone	ND		18	1	05/11/08 18:23	D_R	4432275
Acetone	360		180	1	05/11/08 18:23	D_R	4432275
Acrylonitrile	ND		92	1	05/11/08 18:23	D_R	4432275
Benzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Bromobenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Bromochloromethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
Bromodichloromethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
Bromoform	ND		9.2	1	05/11/08 18:23	D_R	4432275
Bromomethane	ND		18	1	05/11/08 18:23	D_R	4432275
Carbon disulfide	ND		9.2	1	05/11/08 18:23	D_R	4432275
Carbon tetrachloride	ND		9.2	1	05/11/08 18:23	D_R	4432275
Chlorobenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW2 @ 2.5'

Collected: 05/05/2008 11:00

SPL Sample ID: 08050386-05

Site: 4900 25th Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroethane	ND		18	1	05/11/08 18:23	D_R	4432275
Chloroform	ND		9.2	1	05/11/08 18:23	D_R	4432275
Chloromethane	ND		18	1	05/11/08 18:23	D_R	4432275
Dibromochloromethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
Dibromomethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
Dichlorodifluoromethane	ND		18	1	05/11/08 18:23	D_R	4432275
Diisopropyl Ether	ND		18	1	05/11/08 18:23	D_R	4432275
Ethyl tert-butyl ether	ND		9.2	1	05/11/08 18:23	D_R	4432275
Ethylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Hexachlorobutadiene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Isopropylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Methyl tert-butyl ether	ND		9.2	1	05/11/08 18:23	D_R	4432275
Methylene chloride	ND		9.2	1	05/11/08 18:23	D_R	4432275
Naphthalene	ND		9.2	1	05/11/08 18:23	D_R	4432275
n-Butylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
n-Propylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
sec-Butylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Styrene	ND		9.2	1	05/11/08 18:23	D_R	4432275
t-Butyl Alcohol	ND		180	1	05/11/08 18:23	D_R	4432275
tert-Amyl methyl ether	ND		9.2	1	05/11/08 18:23	D_R	4432275
tert-Butylbenzene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Tetrachloroethene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Toluene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Trichloroethene	ND		9.2	1	05/11/08 18:23	D_R	4432275
Trichlorofluoromethane	ND		9.2	1	05/11/08 18:23	D_R	4432275
Vinyl acetate	ND		9.2	1	05/11/08 18:23	D_R	4432275
Vinyl chloride	ND		9.2	1	05/11/08 18:23	D_R	4432275
cis-1,2-Dichloroethene	ND		9.2	1	05/11/08 18:23	D_R	4432275
cis-1,3-Dichloropropene	ND		9.2	1	05/11/08 18:23	D_R	4432275
m,p-Xylene	ND		9.2	1	05/11/08 18:23	D_R	4432275
o-Xylene	ND		9.2	1	05/11/08 18:23	D_R	4432275
trans-1,2-Dichloroethene	ND		9.2	1	05/11/08 18:23	D_R	4432275
trans-1,3-Dichloropropene	ND		9.2	1	05/11/08 18:23	D_R	4432275
1,2-Dichloroethene (total)	ND		9.17	1	05/11/08 18:23	D_R	4432275
Xylenes, Total	ND		9.2	1	05/11/08 18:23	D_R	4432275
Surr: 1,2-Dichloroethane-d4	94.7	%	41-155	1	05/11/08 18:23	D_R	4432275
Surr: 4-Bromofluorobenzene	95.5	%	64-147	1	05/11/08 18:23	D_R	4432275
Surr: Toluene-d8	109	%	52-152	1	05/11/08 18:23	D_R	4432275

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035A	05/05/2008 11:00	Field	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Diesel Range Organics
Method: NWTPH-Dx

WorkOrder: 08050386
Lab Batch ID: 78637

Method Blank

Samples in Analytical Batch:

RunID: HP_Z_080513H-4437252 Units: mg/kg
Analysis Date: 05/14/2008 0:35 Analyst: NW
Preparation Date: 05/07/2008 11:27 Prep By: QMT Method SW3550B/3630

Lab Sample ID
08050386-01C
Client Sample ID
MW4 @ 4.5'
MW3 @ 2.5'

Analyte	Result	Rep Limit
Diesel Range Organics (C12-C24)	ND	5.0
Oil Range Organics (C24-C32)	ND	10
Surr: n-Pentacosane	106.1	20-150

Laboratory Control Sample (LCS)

RunID: HP_Z_080513H-4437253 Units: mg/kg
Analysis Date: 05/14/2008 0:57 Analyst: NW
Preparation Date: 05/07/2008 11:27 Prep By: QMT Method SW3550B/3630

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C12-C24)	66.6	64.9	97.5	21	175
Surr: n-Pentacosane	1.66	1.97	119	20	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08050097-01
RunID: HP_Z_080513H-4437255 Units: mg/kg-dry
Analysis Date: 05/14/2008 1:42 Analyst: NW
Preparation Date: 05/07/2008 11:27 Prep By: QMT Method SW3550B/3630

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C12-C24)	ND	78.2	76.1	91.4	78.2	62.2	73.6	20.1 *	20	21	175
Surr: n-Pentacosane	ND	1.95	2.02	104	1.95	1.69	86.5	18.0	30	20	150

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TN/C - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

08050386 Page 20

6/2/2008 1:07:48 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Diesel Range Organics
Method: NWTPH-Dx

WorkOrder: 08050386
Lab Batch ID: 78920

Method Blank

Samples in Analytical Batch:

RunID: HP_Z_080515D-4443154 Units: mg/kg
Analysis Date: 05/15/2008 16:25 Analyst: NW Lab Sample ID 08050386-02C Client Sample ID MW1 @ 3.0'
Preparation Date: 05/12/2008 17:41 Prep By: QMT Method SW3550B/3630 08050386-05C MW2 @ 2.5'

Analyte	Result	Rep Limit
Diesel Range Organics (C12-C24)	ND	5.0
Oil Range Organics (C24-C32)	ND	10
Surr: n-Pentacosane	88.7	20-150

Laboratory Control Sample (LCS)

RunID: HP_Z_080515D-4443155 Units: mg/kg
Analysis Date: 05/15/2008 16:48 Analyst: NW
Preparation Date: 05/12/2008 17:41 Prep By: QMT Method SW3550B/3630

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C12-C24)	66.6	54.7	82.1	21	175
Surr: n-Pentacosane	1.66	1.71	103	20	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08050386-02
RunID: HP_Z_080515D-4443157 Units: mg/kg-dry
Analysis Date: 05/15/2008 17:32 Analyst: NW
Preparation Date: 05/12/2008 17:41 Prep By: QMT Method SW3550B/3630

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C12-C24)	16.2	102	102	84.1	102	82.8	65.3	20.8 *	20	21	175
Surr: n-Pentacosane	ND	2.54	2.24	88.0	2.54	1.73	67.9	25.8	30	20	150

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 08050386
Lab Batch ID: R237191

Method Blank

Samples in Analytical Batch:

RunID: MSDVOA2_080511C-4432264 Units: ug/kg
Analysis Date: 05/11/2008 11:24 Analyst: D_R
Preparation Date: 05/11/2008 11:24 Prep By: Method SW5030B

Lab Sample ID	Client Sample ID
08050386-01A	MW4 @ 4.5'
08050386-02A	MW1 @ 3.0'
08050386-05A	MW2 @ 2.5'

Analyte	Result	Rep Limit
1,1,1,2-Tetrachloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,2-Dibromoethane	ND	4.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0
1,2-Dichloropropane	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
1,4-Dichlorobenzene	ND	5.0
2,2-Dichloropropane	ND	5.0
2-Butanone	ND	20
2-Chloroethyl vinyl ether	ND	10
2-Chlorotoluene	ND	5.0
2-Hexanone	ND	10
4-Chlorotoluene	ND	5.0
4-Isopropyltoluene	ND	5.0
4-Methyl-2-pentanone	ND	10
Acetone	ND	100
Acrylonitrile	ND	50
Benzene	ND	5.0
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	10
Diisopropyl Ether	ND	10

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

08050386 Page 22

6/2/2008 1:07:48 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 08050386
Lab Batch ID: R237191

Method Blank

RunID: MSDVOA2_080511C-4432264 Units: ug/kg
Analysis Date: 05/11/2008 11:24 Analyst: D_R
Preparation Date: 05/11/2008 11:24 Prep By: Method SW5030B

Analyte	Result	Rep Limit
Ethyl tert-butyl ether	ND	5.0
Ethylbenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Isopropylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Methylene chloride	ND	5.0
Naphthalene	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
t-Butyl Alcohol	ND	100
tert-Amyl methyl ether	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl acetate	ND	5.0
Vinyl chloride	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,2-Dichloroethene (total)	ND	5.0
Xylenes, Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	95.1	41-155
Surr: 4-Bromofluorobenzene	101.8	64-147
Surr: Toluene-d8	104.0	52-152

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

RunID: MSDVOA2_080511C-44323 Units: ug/kg
Analysis Date: 05/11/2008 10:40 Analyst: D_R
Preparation Date: 05/11/2008 10:40 Prep By: Method SW5030B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,1-Dichloroethene	20.0	17.3	86.3	20.0	17.4	87.1	0.9	35	70	130

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

08050386 Page 23

6/2/2008 1:07:49 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 08050386
Lab Batch ID: R237191

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

RunID: MSDVOA2_080511C-44323 Units: ug/kg
Analysis Date: 05/11/2008 10:40 Analyst: D_R
Preparation Date: 05/11/2008 10:40 Prep By: Method SW5030B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	18.9	94.6	20.0	19.3	96.4	1.9	33	70	130
Chlorobenzene	20.0	20.9	105	20.0	22.3	112	6.6	31	70	130
Toluene	20.0	20.2	101	20.0	20.9	104	3.5	36	65	140
Trichloroethene	20.0	19.7	98.3	20.0	20.6	103	4.9	41	70	130
Surr: 1,2-Dichloroethane-d4	50.0	45.4	90.8	50.0	45.5	91.0	0.2	30	41	155
Surr: 4-Bromofluorobenzene	50.0	53.2	106	50.0	53.1	106	0.3	30	64	147
Surr: Toluene-d8	50.0	51.3	103	50.0	51.8	104	1.0	30	52	152

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
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MI - Matrix Interference
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* - Recovery Outside Advisable QC Limits

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08050386 Page 24

6/2/2008 1:07:49 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Gasoline Range Organics
Method: NWTPH-Gx

WorkOrder: 08050386
Lab Batch ID: R237277

Method Blank

Samples in Analytical Batch:

RunID: HP_O_080512C-4433587 Units: mg/kg
Analysis Date: 05/12/2008 15:56 Analyst: SFE
Preparation Date: 05/12/2008 15:56 Prep By: Method

Lab Sample ID Client Sample ID
08050386-01B MW4 @ 4.5'
08050386-04B MW3 @ 2.5'
08050386-05B MW2 @ 2.5'

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	103.3	63-142
Surr: 4-Bromofluorobenzene	89.4	50-159

Laboratory Control Sample (LCS)

RunID: HP_O_080512C-4433586 Units: mg/kg
Analysis Date: 05/12/2008 15:27 Analyst: SFE
Preparation Date: 05/12/2008 15:27 Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.02	102	53	137
Surr: 1,4-Difluorobenzene	0.100	0.104	104	63	142
Surr: 4-Bromofluorobenzene	0.100	0.0905	90.5	50	159

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08050621-24
RunID: HP_O_080512C-4433596 Units: mg/kg-dry
Analysis Date: 05/12/2008 21:49 Analyst: SFE
Preparation Date: 05/12/2008 12:57 Prep By: SFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1.06	0.979	92.1	1.06	0.975	91.7	0.403	50	36	163
Surr: 1,4-Difluorobenzene	ND	0.106	0.111	104	0.106	0.112	105	0.764	30	63	142
Surr: 4-Bromofluorobenzene	ND	0.106	0.0972	91.4	0.106	0.0963	90.6	0.879	30	50	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

08050386 Page 25

6/2/2008 1:07:49 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Gasoline Range Organics
Method: NWTPH-Gx

WorkOrder: 08050386
Lab Batch ID: R237443

Method Blank

Samples in Analytical Batch:

RunID: HP_R_080513B-4436155 Units: mg/kg
Analysis Date: 05/13/2008 15:52 Analyst: SFE
Preparation Date: 05/13/2008 15:52 Prep By: Method

Lab Sample ID
08050386-02B
Client Sample ID
MW1 @ 3.0'

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	98.3	63-142
Surr: 4-Bromofluorobenzene	99.3	50-159

Laboratory Control Sample (LCS)

RunID: HP_R_080513B-4436154 Units: mg/kg
Analysis Date: 05/13/2008 15:23 Analyst: SFE
Preparation Date: 05/13/2008 15:23 Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.938	93.8	53	137
Surr: 1,4-Difluorobenzene	0.100	0.0958	95.8	63	142
Surr: 4-Bromofluorobenzene	0.100	0.105	105	50	159

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08050617-08
RunID: HP_R_080513B-4436158 Units: mg/kg-dry
Analysis Date: 05/13/2008 18:13 Analyst: SFE
Preparation Date: 05/13/2008 16:55 Prep By: SFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1.27	1.28	101	1.27	1.21	95.2	5.81	50	36	163
Surr: 1,4-Difluorobenzene	ND	0.127	0.132	104	0.127	0.122	96.0	8.10	30	63	142
Surr: 4-Bromofluorobenzene	ND	0.127	0.125	98.9	0.127	0.128	101	2.40	30	50	159

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 08050386
Lab Batch ID: R237784

Method Blank

Samples in Analytical Batch:

RunID: MSDVOA2_080515B-4441328 Units: ug/kg
Analysis Date: 05/15/2008 12:04 Analyst: D_R
Preparation Date: 05/15/2008 12:04 Prep By: Method SW5030B

Lab Sample ID 08050386-04A
Client Sample ID MW3 @ 2.5'

Analyte	Result	Rep Limit
1,1,1,2-Tetrachloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,2-Dibromoethane	ND	4.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0
1,2-Dichloropropane	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
1,4-Dichlorobenzene	ND	5.0
2,2-Dichloropropane	ND	5.0
2-Butanone	ND	20
2-Chloroethyl vinyl ether	ND	10
2-Chlorotoluene	ND	5.0
2-Hexanone	ND	10
4-Chlorotoluene	ND	5.0
4-Isopropyltoluene	ND	5.0
4-Methyl-2-pentanone	ND	10
Acetone	ND	100
Acrylonitrile	ND	50
Benzene	ND	5.0
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	10
Diisopropyl Ether	ND	10

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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08050386 Page 27

6/2/2008 1:07:50 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 08050386
Lab Batch ID: R237784

Method Blank

RunID: MSDVOA2_080515B-4441328 Units: ug/kg
Analysis Date: 05/15/2008 12:04 Analyst: D_R
Preparation Date: 05/15/2008 12:04 Prep By: Method SW5030B

Analyte	Result	Rep Limit
Ethyl tert-butyl ether	ND	5.0
Ethylbenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Isopropylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Methylene chloride	ND	5.0
Naphthalene	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
t-Butyl Alcohol	ND	100
tert-Amyl methyl ether	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl acetate	ND	5.0
Vinyl chloride	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,2-Dichloroethene (total)	ND	5.0
Xylenes, Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	92.7	41-155
Surr: 4-Bromofluorobenzene	101.7	64-147
Surr: Toluene-d8	102.0	52-152

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

RunID: MSDVOA2_080515B-44413 Units: ug/kg
Analysis Date: 05/15/2008 11:20 Analyst: D_R
Preparation Date: 05/15/2008 11:20 Prep By: Method SW5030B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,1-Dichloroethene	20.0	18.7	93.5	20.0	18.1	90.3	3.5	35	70	130

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 08050386
Lab Batch ID: R237784

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

RunID: MSDVOA2_080515B-44413 Units: ug/kg
Analysis Date: 05/15/2008 11:20 Analyst: D_R
Preparation Date: 05/15/2008 11:20 Prep By: Method SW5030B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	18.9	94.4	20.0	19.0	95.1	0.7	33	70	130
Chlorobenzene	20.0	21.5	108	20.0	21.8	109	1.2	31	70	130
Toluene	20.0	20.5	102	20.0	20.7	103	0.8	36	65	140
Trichloroethene	20.0	19.6	97.9	20.0	19.7	98.3	0.4	41	70	130
Surr: 1,2-Dichloroethane-d4	50.0	43.7	87.4	50.0	44.4	88.8	1.6	30	41	155
Surr: 4-Bromofluorobenzene	50.0	52.7	105	50.0	53.6	107	1.6	30	64	147
Surr: Toluene-d8	50.0	51.3	103	50.0	52.3	105	2.0	30	52	152

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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08050386 Page 29

6/2/2008 1:07:50 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: Metals by Method 6020, Total
Method: SW6020A

WorkOrder: 08050386
Lab Batch ID: 78794-I

Method Blank

RunID: ICPMS2_080515A-4441019 Units: mg/kg
Analysis Date: 05/16/2008 4:02 Analyst: AL_H
Preparation Date: 05/09/2008 14:40 Prep By: DD Method SW3050B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08050386-01C	MW4 @ 4.5'
08050386-02C	MW1 @ 3.0'
08050386-04C	MW3 @ 2.5'
08050386-05C	MW2 @ 2.5'

Analyte	Result	Rep Limit
Lead	ND	0.5

Laboratory Control Sample (LCS)

RunID: ICPMS2_080515A-4441020 Units: mg/kg
Analysis Date: 05/16/2008 4:10 Analyst: AL_H
Preparation Date: 05/09/2008 14:40 Prep By: DD Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	76.80	74.65	97.20	81	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08050515-01
RunID: ICPMS2_080515A-4441022 Units: mg/kg
Analysis Date: 05/16/2008 4:25 Analyst: AL_H
Preparation Date: 05/09/2008 14:40 Prep By: DD Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	1.307	10	10.32	90.13	10	10.57	92.63	2.393	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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08050386 Page 30

6/2/2008 1:07:50 PM



Quality Control Report

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Analysis: SIM Semivolatiles Organics by Method 8270C
Method: SW8270C

WorkOrder: 08050386
Lab Batch ID: 78906

Method Blank

Samples in Analytical Batch:

RunID: S_080524B-4462349 Units: ug/kg
Analysis Date: 05/24/2008 14:46 Analyst: S_G
Preparation Date: 05/12/2008 16:34 Prep By: QMT Method SW3550B

Lab Sample ID
08050386-01C
08050386-02C
08050386-04C
08050386-05C

Client Sample ID
MW4 @ 4.5'
MW1 @ 3.0'
MW3 @ 2.5'
MW2 @ 2.5'

Analyte	Result	Rep Limit
1-Methylnaphthalene	ND	33
2-Methylnaphthalene	ND	33
Acenaphthene	ND	33
Acenaphthylene	ND	33
Anthracene	ND	33
Benz(a)anthracene	ND	33
Benzo(a)pyrene	ND	33
Benzo(b)fluoranthene	ND	33
Benzo(g,h,i)perylene	ND	33
Benzo(k)fluoranthene	ND	33
Chrysene	ND	33
Dibenz(a,h)anthracene	ND	33
Dibenzofuran	ND	33
Fluoranthene	ND	33
Fluorene	ND	33
Indeno(1,2,3-cd)pyrene	ND	33
Naphthalene	ND	33
Phenanthrene	ND	33
Pyrene	ND	33
Surr: 2-Fluorobiphenyl	79.2	15-140
Surr: Nitrobenzene-d5	86.7	18-129
Surr: Terphenyl-d14	68.7	18-166

Laboratory Control Sample (LCS)

RunID: S_080524B-4462350 Units: ug/kg
Analysis Date: 05/24/2008 15:19 Analyst: S_G
Preparation Date: 05/12/2008 16:34 Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1-Methylnaphthalene	66.0	43.4	65.8	30	160
2-Methylnaphthalene	66.0	45.0	68.3	30	135
Acenaphthene	66.0	50.0	75.8	30	160
Acenaphthylene	66.0	43.4	65.7	10	150
Anthracene	66.0	49.3	74.7	27	133
Benz(a)anthracene	66.0	46.4	70.2	33	143
Benzo(a)pyrene	66.0	44.6	67.6	17	163
Benzo(b)fluoranthene	66.0	46.2	70.0	24	159

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

08050386 Page 31

6/2/2008 1:07:51 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: SIM Semivolatiles Organics by Method 8270C
Method: SW8270C

WorkOrder: 08050386
Lab Batch ID: 78906

Laboratory Control Sample (LCS)

RunID: S_080524B-4462350 Units: ug/kg
Analysis Date: 05/24/2008 15:19 Analyst: S_G
Preparation Date: 05/12/2008 16:34 Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzo(g,h,i)perylene	66.0	44.4	67.3	10	219
Benzo(k)fluoranthene	66.0	48.7	73.8	11	162
Chrysene	66.0	49.3	74.7	17	168
Dibenz(a,h)anthracene	66.0	41.9	63.5	10	227
Dibenzofuran	66.0	24.1	36.6	30	160
Fluoranthene	66.0	47.7	72.2	26	137
Fluorene	66.0	48.8	73.9	35	135
Indeno(1,2,3-cd)pyrene	66.0	45.7	69.3	10	171
Naphthalene	66.0	47.0	71.3	21	133
Phenanthrene	66.0	49.4	74.8	35	135
Pyrene	66.0	42.2	64.0	34	138
Surr: 2-Fluorobiphenyl	66.0	47.2	71.5	15	140
Surr: Nitrobenzene-d5	66.0	53.7	81.3	18	129
Surr: Terphenyl-d14	66.0	40.8	61.8	18	166

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08050359-01
RunID: S_080529D-4471209 Units: mg/kg-dry
Analysis Date: 05/30/2008 2:12 Analyst: S_G
Preparation Date: 05/12/2008 16:34 Prep By: QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1-Methylnaphthalene	ND	0.0782	0.0337	43.1	0.0782	0.0484	61.8	35.7	60	30	160
2-Methylnaphthalene	ND	0.0782	0.0404	51.7	0.0782	0.0438	56.0	8.05	60	30	135
Acenaphthene	ND	0.0782	0.0573	51.6	0.0782	0.0597	54.6	3.99	31	30	160
Acenaphthylene	ND	0.0782	0.0505	40.5	0.0782	0.0539	44.9	6.49	50	10	150
Anthracene	0.0723	0.0782	0.122	63.8	0.0782	0.143	90.5	15.7	50	27	133
Benz(a)anthracene	0.359	0.0782	0.462	N/C	0.0782	0.439	N/C	N/C	50	33	143
Benzo(a)pyrene	0.330	0.0782	0.368	N/C	0.0782	0.363	N/C	N/C	60	17	163
Benzo(b)fluoranthene	0.502	0.0782	0.587	N/C	0.0782	0.507	N/C	N/C	60	24	159

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: SIM Semivolatiles Organics by Method 8270C
Method: SW8270C

WorkOrder: 08050386
Lab Batch ID: 78906

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08050359-01
RunID: S_080529D-4471209 Units: mg/kg-dry
Analysis Date: 05/30/2008 2:12 Analyst: S_G
Preparation Date: 05/12/2008 16:34 Prep By: QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzo(g,h,i)perylene	0.147	0.0782	0.135	-14.6 *	0.0782	0.227	103	50.6	60	10	219
Benzo(k)fluoranthene	0.179	0.0782	0.239	76.9	0.0782	0.198	25.0	18.6	60	11	162
Chrysene	0.336	0.0782	0.395	N/C	0.0782	0.424	N/C	N/C	60	17	168
Dibenz(a,h)anthracene	ND	0.0782	0.0414	3.37 *	0.0782	0.0618	29.5	39.6	60	10	227
Dibenzofuran	ND	0.0782	0.0405	51.8	0.0782	0.0414	52.9	2.06	60	30	160
Fluoranthene	0.472	0.0782	0.566	N/C	0.0782	0.605	N/C	N/C	60	26	137
Fluorene	ND	0.0782	0.0608	52.3	0.0782	0.0625	54.5	2.88	60	35	135
Indeno(1,2,3-cd)pyrene	0.138	0.0782	0.133	-5.86 *	0.0782	0.214	97.6	46.6	60	10	171
Naphthalene	ND	0.0782	0.0417	53.3	0.0782	0.0417	53.3	0.0330	60	21	133
Phenanthrene	0.276	0.0782	0.374	125	0.0782	0.409	169 *	8.89	60	35	135
Pyrene	0.515	0.0782	0.722	N/C	0.0782	0.722	N/C	N/C	31	26	127
Surr: 2-Fluorobiphenyl	ND	78.2	36.3	46.4	78.2	36.2	46.2	0.316	30	15	140
Surr: Nitrobenzene-d5	ND	78.2	26.3	33.7	78.2	29.1	37.2	9.82	30	18	129
Surr: Terphenyl-d14	ND	78.2	48.5	62.0	78.2	43.7	55.9	10.4	30	18	166

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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08050386 Page 33

6/2/2008 1:07:51 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Products US - Environmental Services

INC# 97605414, INC# 171156

Analysis: PERCENT MOISTURE
Method: D2216

WorkOrder: 08050386
Lab Batch ID: R236963C

Samples In Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
08050386-01C	MW4 @ 4.5'
08050386-02C	MW1 @ 3.0'
08050386-04C	MW3 @ 2.5'
08050386-05C	MW2 @ 2.5'

Sample Duplicate

Original Sample: 08050602-02
RunID: WET_080509L-4428281 Units: wt%
Analysis Date: 05/09/2008 17:08 Analyst: ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	25.3	25.42	0.277	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
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08050386 Page 34

6/2/2008 1:07:51 PM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	08050386	Received By:	AE
Date and Time Received:	5/6/2008 10:00:00 AM	Carrier name:	Fedex-Standard Overnight
Temperature:	3.5°C	Chilled by:	Water Ice

1. Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐
2. Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
3. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
4. Chain of custody present? Yes ☒ No ☐
5. Chain of custody signed when relinquished and received? Yes ☒ No ☐
6. Chain of custody agrees with sample labels?
1. Did not receive terracores for MW 2 @ 2.5' as listed on chain only the 8 oz container. 2. Received 2 sets of terracores for MW1 @ 3.0' collected 5/5 11:00 not listed on chain. Yes ☐ No ☒
7. Samples in proper container/bottle? Yes ☒ No ☐
8. Sample containers intact? Yes ☒ No ☐
9. Sufficient sample volume for indicated test? Yes ☒ No ☐
10. All samples received within holding time? Yes ☒ No ☐
11. Container/Temp Blank temperature in compliance? Yes ☒ No ☐
12. Water - VOA vials have zero headspace? Yes ☐ No ☐ VOA Vials Not Present ☒
13. Water - Preservation checked upon receipt (except VOA*)? Yes ☐ No ☐ Not Applicable ☒

*VOA Preservation Checked After Sample Analysis

SPL Representative:
Client Name Contacted:

Contact Date & Time:

Non Conformance
Issues:

Client Instructions:

Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

☒ SW. SERVICES	☐ NGIWA SETG.	☐ SHELL TAIL
☐ NGIWA SETG.	☐ CONSULTANT	☐ LIES
☐ WELL PIPELINE	☐ OTHER	

Print Bill To Contact Name

Carol Campaign

INCIDENT # (ENV SERVICES)

9	7	6	8	5	4	1	4
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☐ CHECK IF NO INCIDENT REPORTED

DATE: 5-5-08

PAGE: 1 11

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DATE: AUGUST 20, 1962

4900 25th Ave. Seattle Wf

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Christine Schweigert, CRA, Everett
CO# 584964127

425-212-5100

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http://www.cba.gov.uk

475-212-5100

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Reverend PALMER

REARCLD TIME 1142-14745 CAYS

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— REFERENCES

— RESULTS NEEDED
ON WEEKEND

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

See SPL PM for WA Dept. of Ecology MTC Method A
cleanup levels for minimum detection limits

5 SHELOMIAK - BATE SEP-75

STATE EMPLOYMENT RATE FOR JAN

☐ **EDUCATION**

જો સરકાર જાણે છે તો આપણે સરકારને

TEMPERATURE ON RECEIPT
 61Container PID Readings
or Laboratory Notes.

USE ONLY		Field Sample Identification	SAMPLING		NATX	FRESH ANALYSIS				NO. OF CONT.	NWTPH-Gx	NWTPH-LUX W	RTEV (#250B)	5-Oxygensoluble DPEL TAME	EDC (#280R)	CDC (obj 1)	Total Lead (S02)	PCBs (S022)	PAHs (S070 S)	VOCs Full list	Pest (S060)	NWTPH-VPM	NWTPH-EPH	n-Hexane '90	Container PID Readings or Laboratory Notes
			DATE	TIME		FRESH ANALYSIS																			
						M.E.	PH	PCB	PCB																
		MW4 @ 4.5'	5-5-20	100	S					9	X	X	X	X			X		X	X					
		MW1 @ 3.0'		100	S					9	X	X	X	X			X		X	X					
		MW2 @ 2.5'		100	S					9	X	X	X	X			X		X	X					
		MW3 @ 2.5'		150	S					9	X	X	X	X			X		X	X					