Results of Quarterly Ground Water Monitoring and Sampling
June 2002
Texaco Service Station
1501 West Northern Lights Boulevard
Anchorage, Alaska

July 22, 2002

For
Shell Oil Products-US

GeoEngineers

July 22, 2002

Shell Oil Products-US
10602 NE 38th Place
Kirkland, Washington 98033

Attention: Anthony J. Palagyi

Results of Quarterly Ground Water
Monitoring and Sampling
June 2002
Texaco Service Station
1501 West Northern Lights Boulevard
Anchorage, Alaska
ADEC File No. L25.20
GEI File No. 9876-004-00

INTRODUCTION

This letter presents the results of GeoEngineers' June quarterly ground water monitoring and sampling event at the Texaco Service Station located at 1501 West Northern Lights Boulevard in Anchorage, Alaska. The Alaska Department of Environmental Conservation (ADEC) file number for this site is L25.20. The site relative to surrounding physical features is shown on Figure 1. Existing site facilities include a service station building with a convenience store and an automotive maintenance facility, three service islands located east and south of the building, four product underground storage tanks (USTs) and associated buried product lines. The station also operates an automated car wash along the northwest corner of the site. The general layout of the service station facilities and approximate locations of the monitoring wells are shown on Figure 2.

Statewide Petroleum Services removed a 550-gallon waste oil UST and replaced the fuel dispensers in October 1996. GeoEngineers provided environmental compliance monitoring and sampling during removal of the tank. In 1997, GeoEngineers performed a site assessment consisting of drilling four borings (B-1 through B-4). Monitoring well MW-1 was installed by GeoEngineers in the vicinity of the former waste oil UST in December 1997. Four monitoring wells, MW-A through MW-D, were installed by GeoEngineers in November 1999. The wells were positioned to monitor ground water contamination from the former waste oil UST, the northeast dispensing island and the south dispensing island. Two additional downgradient wells

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(MW-E and MW-F) were installed by GeoEngineers in August 2001 to further characterize the extent of ground water contamination.

The purpose of our services for this quarterly event was to monitor ground water conditions beneath the site. Depth to ground water was measured in all accessible monitoring wells, and representative ground water samples were collected from monitoring wells MW-1, MW-C, MW-D, MW-E and MW-F during this event. Monitoring wells MW-A and MW-B were not sampled as part of this quarterly ground water monitoring program. Representative ground water samples were analyzed for benzene, ethylbenzene, toluene and xylenes (BETX) and gasoline-range organics (GRO) by Method AK101. Additionally, the ground water samples collected from MW-C and MW-E were analyzed for halogenated volatile organic compounds (HVOC) by U.S. Environmental Protection Agency (EPA) Method 8260B to identify the eluting compounds accounting for previous GRO detections. Monitoring well MW-1 was also analyzed for diesel-range organics (DRO) by Method AK102 and residual-range organics (RRO) by Method AK103.

The following sections discuss ground water monitoring. Monitoring and analytical data are presented in Tables 1 and 2, and on Figure 2 and 3.

GROUND WATER MONITORING AND SAMPLING

- The measured depths to ground water in the monitoring wells during this event ranged from 12.78 feet below the top of the well casing at MW-E to 14.25 feet below the top of the well casing at MW-D. Ground water elevations measured from August 2001 through June 2002 are presented in Table 1.
- The apparent shallow ground water flow direction calculated from the June 2002 depth to ground water measurements is generally toward the southwest, which is consistent with previous ground water monitoring data. The calculated water table elevations and inferred ground water flow direction for this event are shown on Figure 2.
- Historical ground water flow direction and frequency are illustrated in the rose diagram included as Figure 4. The data used for this diagram was gathered from quarterly monitoring events from August 2001 through the most recent event.
- Free product was not encountered in any wells during our monitoring activities.
- No purge water was generated during the sampling event. The representative ground water samples were collected with new, disposable bailers using no-purge sampling techniques, as authorized by ADEC in a letter dated February 24, 1998.
- Benzene was detected at concentrations exceeding the current ADEC Migration to Ground Water cleanup level of 5 micrograms per liter (µg/l) in the representative ground water sample collected from monitoring well MW-E at a concentration of 130 µg/l. GRO was detected in MW-E at a concentration of 8,500 µg/l, also exceeding the ADEC Migration to Ground Water cleanup level of 1,300 µg/l.
- Benzene concentrations increased noticeably in monitoring well MW-E and decreased noticeably in wells MW-D and MW-F. GRO concentrations increased noticeably in

monitoring well MW-E and decreased noticeably in monitoring wells MW-C, MW-D and MW-F.

- GRO detections in MW-C and MW-E were previously identified from the North Creek Analytical laboratory chromatograms as not being typical for a gasoline pattern. We analyzed these wells for halogenated volatile organic compounds by EPA Method 8260B to attempt to identify the eluting compounds accounting for the GRO detections. SPL Laboratories reported no detection of BETX, GRO or other HVOCs in MW-C, and only BETX compounds were detected in the HVOC analysis for MW-E.
- A field duplicate ground water sample was collected from monitoring well MW-E. The sample was identified as "Duplicate" on the laboratory chain-of-custody. BETX and GRO compounds were detected in samples from MW-E, and benzene, toluene, and GRO compounds were detected in the duplicate sample. A comparison of these values indicated that the relative percent differences (RPD) were outside of the acceptable control limits for xylenes and GRO compounds. Based on our data quality review and comparison of previous analytical data, it is our opinion that the analytical data are suspect for this reporting period.
- Ground water chemical analytical data for samples obtained from August 2001 to June 2002 are summarized in Table 2. Figure 3 shows chemical analytical data for the four most recent monitoring events.
- The laboratory reports and chain-of-custody records for the ground water samples collected during this event are included in Attachment A.

FUTURE MONITORING AND SAMPLING

- Measure ground water levels and collect representative ground water samples from accessible monitoring wells on a quarterly basis for the same parameters listed in this report.
- The next quarterly monitoring event is scheduled for September 2002.

LIMITATIONS

We have prepared this report for use by Shell Oil Products-US. This report may be made available to regulatory agencies and to other parties, as designated by Shell. The report is not intended for use by others, and the information contained herein is not applicable to other sites.

Our interpretation of ground water conditions is based on field observations, our review of chemical analytical data and our review of information prepared by others.

Within the limitation of scope, schedule and budget, our services have been executed in accordance with the generally accepted practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

We appreciate the opportunity to be of service to Shell Oil Products-US. Please contact us if you have questions regarding this project.

Yours very truly,

GeoEngineers, Inc.

Jamie J. Oakley
Project Geologist

Dean Hagen for

Scott E. Widness, P.E.
Principal

JJO:SEW:skl
Document ID: Anch\0987004\00\Final\987600400qr2.doc

Attachments

Two copies submitted

cc: Robert Weimer
ADEC - Anchorage Office

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
TEXACO SERVICE STATION
1501 WEST NORTHERN LIGHTS BOULEVARD
ANCHORAGE, ALASKA
GEI JOB #9876-004-00

Monitoring Well	Top of Casing Elevation[1] (feet)	Date	Depth to Water From Top of Casing (feet)	Ground Water Elevation (feet)
MW-1	98.99	08/07/01	13.74	85.25
		11/08/01	14.18	84.81
		03/05/02	14.53	84.46
		06/01/02	13.80	85.19
MW-A	98.35	08/07/01	12.97	85.38
		11/08/01	13.43	84.92
		03/05/02	13.78	84.57
		06/01/02	13.28	85.07
MW-B	98.37	08/07/01	13.21	85.16
		11/08/01	13.66	84.71
		03/05/02	14.05	84.32
		06/01/02	13.02	85.35
MW-C	98.69	08/07/01	13.31	85.38
		11/08/01	13.76	84.93
		03/05/02	13.95	84.74
		06/01/02	13.34	85.35
MW-D	99.27	08/07/01	14.18	85.09
		11/08/01	14.60	84.67
		03/05/02	14.88	84.39
		06/01/02	14.25	85.02
MW-E	97.66	08/07/01	12.70	84.96
		11/08/01	13.08	84.58
		03/05/02	13.33	84.33
		06/01/02	12.78	84.88
MW-F	98.14	08/07/01	13.19	84.95
		11/08/01	13.59	84.55
		03/05/02	13.88	84.26
		06/01/02	13.27	84.87

Notes:
[1] Elevations are relative to an assumed site datum (southeast building corner).

TABLE 2 (Page 1 of 3)
SUMMARY OF GROUND WATER ANALYTICAL RESULTS[1]
TEXACO SERVICE STATION
1501 WEST NORTHERN LIGHTS BOULEVARD, ANCHORAGE, ALASKA
GEI JOB #9876-004-00

Well ID	Date Sampled	BETX[2] EPA Method 8021B (µg/l) B	E	T	X	GRO[3] (µg/l)	DRO[4] (µg/l)	RRO[5] (µg/l)	HVOC[6] (µg/l)	PAH[7] (µg/l)
MW-1	08/07/01	--	--	--	--	--	581 [8]	1,690	--	ND
	11/08/01	--	--	--	--	--	433 [8]	1,120	--	--
	03/05/02	<0.200	<0.500	<0.500	<1.00	<50.0	228 [8]	<750	--	--
	06/01/02	<1.0	<1.0	<1.0	<3.0	<100	190	340	--	--
MW-C	08/07/01	1.96	3.34	0.867	54.2	1,490	--	--	--	--
	08/07/01 *	5.54	7.70	1.98	107	3,440	--	--	--	--
	11/08/01 [9]	1.35	1.46	0.907	10.3	1,620	--	--	--	--
	03/05/02 [9]	1.43	0.568	0.911 [10]	13.1	885 [11]	--	--	--	--
	03/05/02 *	1.90	1.63	1.28 [10]	18.2 [10]	998 [11]	--	--	--	--
	06/01/02	<1.0	<1.0	<1.0	<3.0	<100	--	--	ND	--
MW-D	08/07/01	4.38	39.6	0.675	72.1	1,030	--	--	--	--
	11/08/01	4.31	49.7	<1.00	104	1,120	--	--	--	--
	03/05/02	6.92	32.4	0.901 [10]	84.0	1,180	--	--	--	--
	06/01/02	<1.0	6.1	2.1	20.5	610	--	--	--	--
MW-E	08/07/01	25.0	231	61.9	3,110	4,850	957 [10]	<750	--	Naphthalene = 8.29
	11/08/01 [9]	20.9	173	<10.0	1,720	5,390	--	--	--	--
	11/08/01 *	22.2	170	<10.0	1,690	5,340	--	--	--	--
	03/05/02 [9]	36.3	63.2	8.78	735	1,640 [11]	--	--	--	--
	06/01/02	130	220	100	2,230	8,500	--	--	ND	--
	06/01/02 *	130	240	110	3,000	6,500	--	--	--	--

Notes appear on page 3 of 3.

TABLE 2 (Page 2 of 3)

Well ID	Date Sampled	BETX[2] EPA Method 8021B (µg/l) B	E	T	X	GRO[3] (µg/l)	DRO[4] (µg/l)	RRO[5] (µg/l)	HVOC[6] (µg/l)	PAH[7] (µg/l)
MW-F	08/07/01	2.20	28.4	0.728	45.6	487	273 [10]	<750	--	Naphthalene = 0.309
	11/08/01	3.38	40.2	1.49 [10]	62.2	771	--	--	--	--
	03/05/02	7.84	66.0	1.89 [10]	172	2,940	--	--	--	--
	06/01/02	<1.0	30	1.1	31.6	570	--	--	--	--
Trip Blank	08/07/01	<0.200	<0.500	<0.500	<1.00	<50.0	--	--	--	--
	11/08/01	<0.200	<0.500	<0.500	<1.00	<50.0	--	--	--	--
	03/05/02	<0.200	<0.500	<0.500	<1.00	<50.0	--	--	--	--
	06/01/02	<1.0	<1.0	<1.0	<3.0	<100	--	--	--	--
ADEC Ground Water Cleanup Levels		5	700	1,000	10,000	1,300	1,500	1,100		Naphthalene = 1,460

Notes appear on page 3 of 3.

TABLE 2 (Page 3 of 3)

Notes:

[1]SPL Laboratories in Lafayette, Louisiana, began chemical analytical services for the site during the June 2002 reporting period. Previous results provided by North Creek Analytical in Bothell, Washington.

[2]B = benzene, E = ethylbenzene, T = toluene, X = xylenes.

[3]GRO = Gasoline-Range Organics by ADEC Method AK101.

[4]DRO = Diesel-Range Organics by ADEC Method AK102.

[5]RRO = Residual-Range Organics by ADEC Method AK103.

[6]HVOCs = Halogenated Volatile Organic Compounds by EPA Method 8260B.

[7]PAH = Polynuclear Aromatic Hydrocarbons by EPA Method 8270-SIM.

[8]Laboratory chromatograms indicate that results in the diesel range are primarily due to overlap from a heavy-oil-range product.

[9]Sample was also tested for oxygenates by EPA Method 8260B and for ethanol by EPA Method 8015B (see lab data for results).

[10]Laboratory reporting limit for this sample was raised to account for interference from coeluting organic compounds present in the sample.

[11]Laboratory chromatograms indicate that results in this sample do not resemble a typical gasoline pattern.

EPA = U.S. Environmental Protection Agency.

µg/l = micrograms per liter (parts per billion).

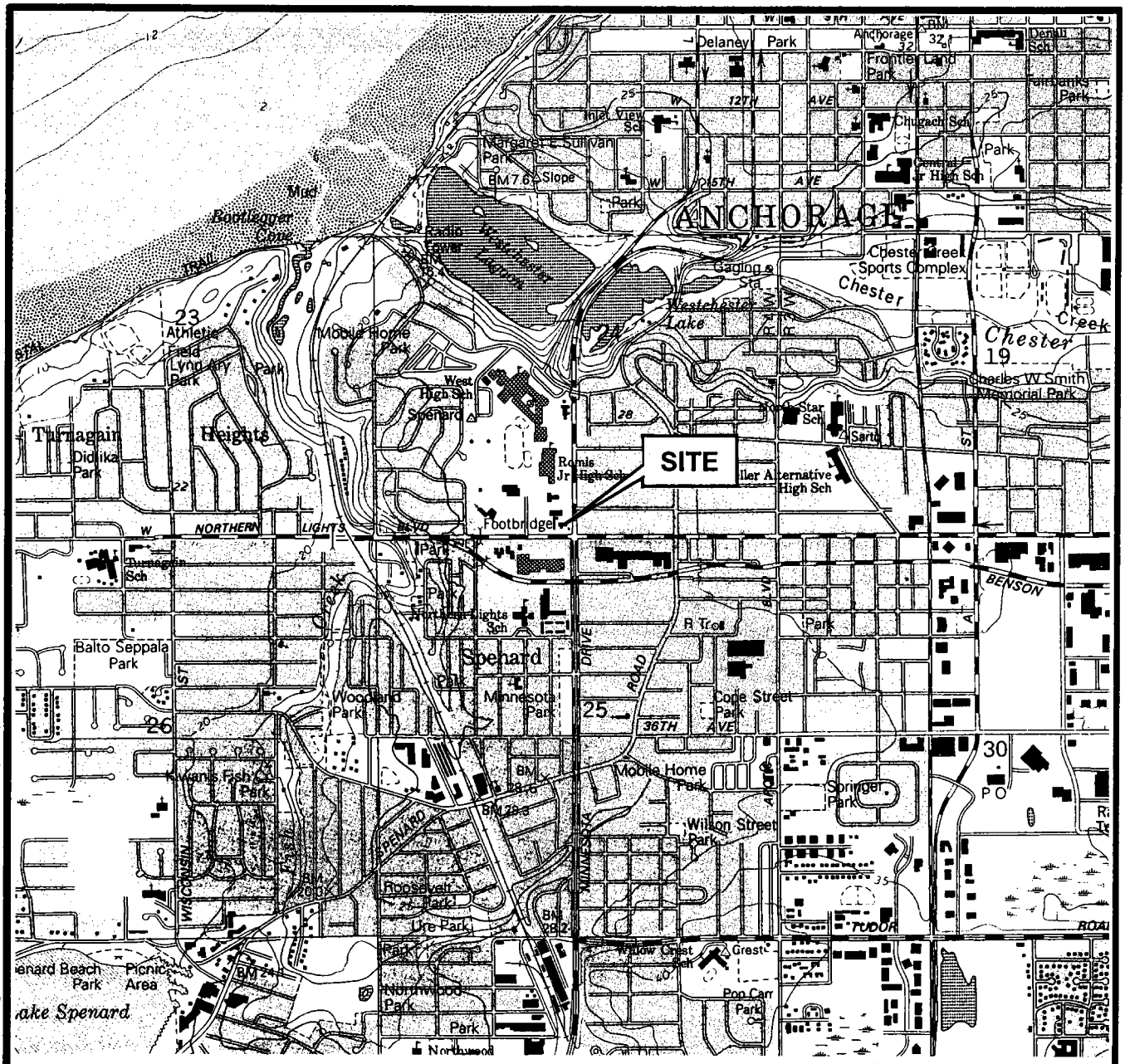
"–" = not analyzed.

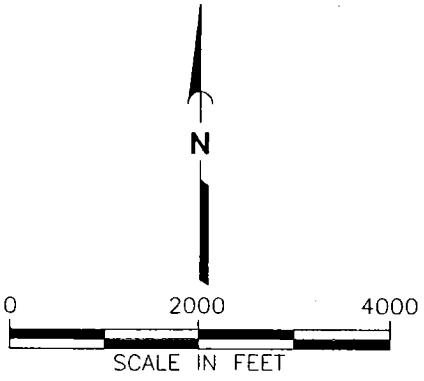
"<" or ND = analyte not detected at or above laboratory method reporting limits.

"*" = duplicate sample.

ADEC = Alaska Department of Environmental Conservation.

Shading indicates concentrations greater than ADEC Table C Migration to Ground Water cleanup levels.





Reference:
USGS 7.5' topographic quadrangle map "Anchorage A-8, NW, AK." 1979 photorevised in 1994.

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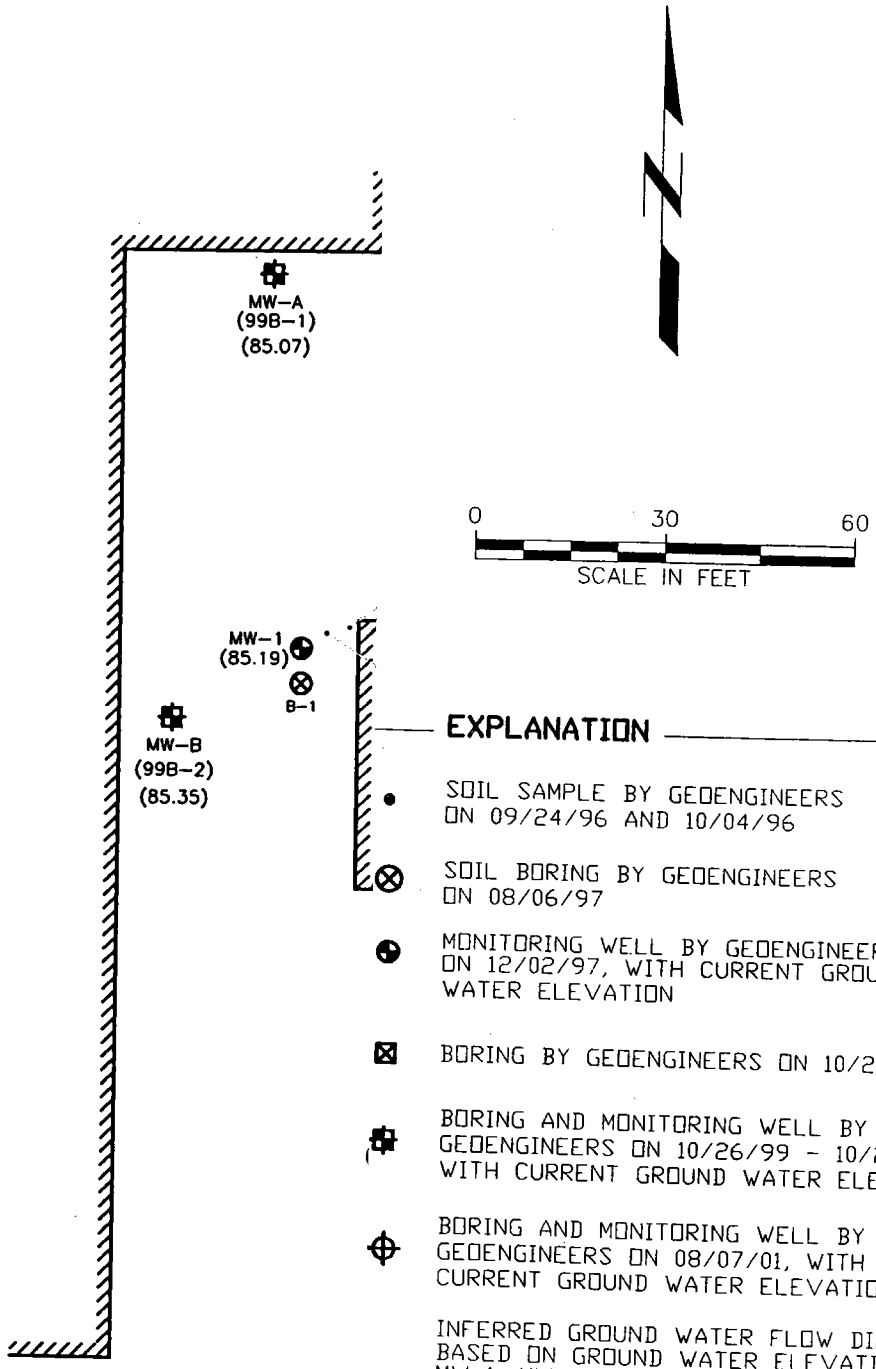
Geo Engineers

VICINITY MAP

FIGURE 1



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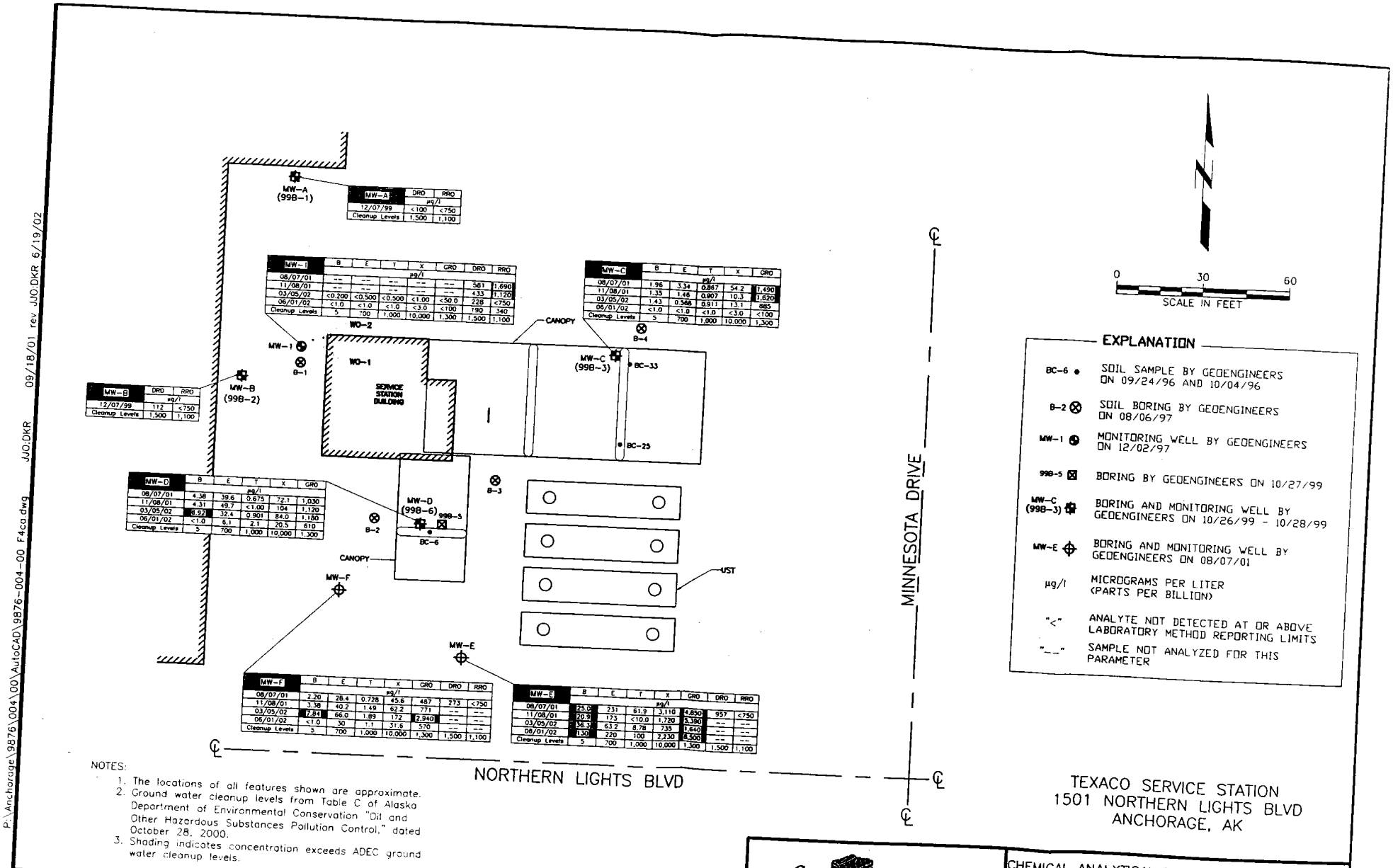
TEXACO SERVICE STATION
1501 NORTHERN LIGHTS BLVD
ANCHORAGE, AK

SITE PLAN

FIGURE 2

Note: The locations of all features shown are



MW-A	DRO	RRO
	µg/l	
12/07/99	<100	<750
Cleanup Levels	1,500	1,100

MW-B	DRO	RRO
	µg/l	
12/07/99	112	<750
Cleanup Levels	1,500	1,100

MW-1	B	E	T	X	GRO	DRO	RRO
	µg/l						
08/07/01	--	--	--	--	--	561	1,690
11/08/01	--	--	--	--	--	433	1,120
03/05/02	<0.200	<0.500	<0.500	<1.00	<50.0	228	<750
06/01/02	<1.0	<1.0	<1.0	<3.0	<100	190	340
Cleanup Levels	5	700	1,000	10,000	1,300	1,500	1,100

MW-C	B	E	T	X	GRO
	µg/l				
08/07/01	1.96	3.34	0.867	54.2	1,490
11/08/01	1.35	1.46	0.907	10.3	1,620
03/05/02	1.43	0.568	0.911	13.1	885
06/01/02	<1.0	<1.0	<1.0	<3.0	<100
Cleanup Levels	5	700	1,000	10,000	1,300

MW-D	B	E	T	X	GRO
	µg/l				
08/07/01	4.38	39.6	0.675	72.1	1,030
11/08/01	4.31	49.7	<1.00	104	1,120
03/05/02	8.52	32.4	0.901	84.0	1,180
06/01/02	<1.0	8.1	2.1	20.5	610
Cleanup Levels	5	700	1,000	10,000	1,300

MW-F	B	E	T	X	GRO	DRO	RRO
	µg/l						
08/07/01	2.20	28.4	0.728	45.6	487	273	<750
11/08/01	3.38	40.2	1.49	62.2	771	--	--
03/05/02	7.84	66.0	1.89	172	2,940	--	--
06/01/02	<1.0	30	1.1	31.6	570	--	--
Cleanup Levels	5	700	1,000	10,000	1,300	1,500	1,100

MW-E	B	E	T	X	GRO	DRO	RRO
	µg/l						
08/07/01	25.0	231	61.9	3,110	4,850	957	<750
11/08/01	20.9	175	<10.0	1,720	5,390	--	--
03/05/02	36.3	63.2	8.78	735	1,620	--	--
06/01/02	130	220	100	2,230	4,500	--	--
Cleanup Levels	5	700	1,000	10,000	1,300	1,500	1,100

NOTES:
1. The locations of all features shown are approximate.
2. Ground water cleanup levels from Table C of Alaska Department of Environmental Conservation "Oil and Other Hazardous Substances Pollution Control," dated October 28, 2000.
3. Shading indicates concentration exceeds ADEC ground water cleanup levels.

TEXACO SERVICE STATION
1501 NORTHERN LIGHTS BLVD
ANCHORAGE, AK

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CHEMICAL ANALYTICAL RESULTS - GROUND WATER

FIGURE 3

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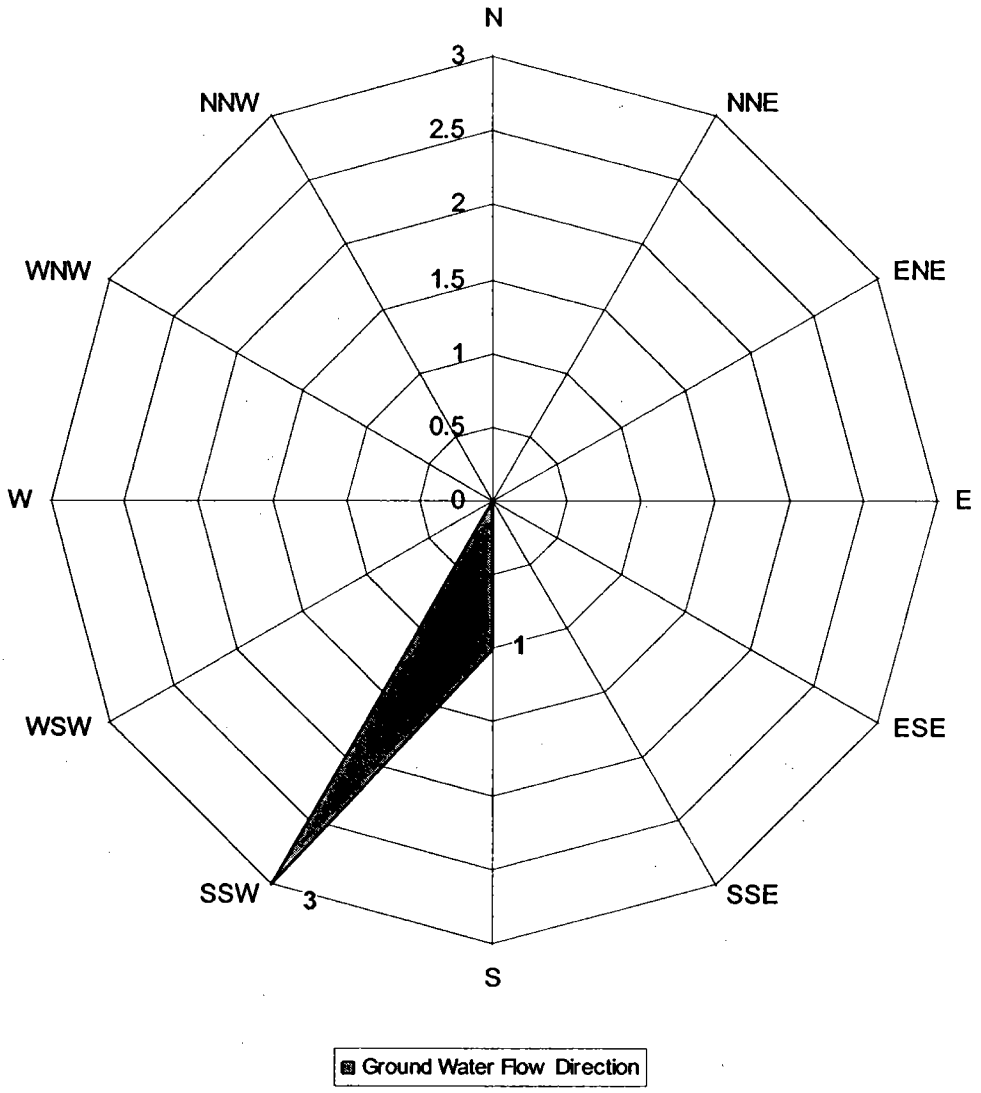

Notes:

1. **The information used to create this rose diagram was gathered from quarterly ground water monitoring reports dating from August 2001 to the present.**
2. **This diagram presents the direction of ground water flow based on measured ground water elevations in the monitoring wells versus the number of occurrences.**

9876-004-00 JJO:DKR 7/1/02 (Rose.ppt)

GeoEngineers

FIGURE 4

HISTORICAL GROUND WATER FLOW DIAGRAM

ATTACHMENT A

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SHELL OIL PRODUCTS

Certificate of Analysis Number:

02060086

Report To:			
GEO ENGINEERS, INC		Project Name:	9876-004-00
JAMIE OAKLEY		Site:	NORTHERN LIGHTS TEXACO
4951 EAGLE STREET		Site Address:	1501 NORTHERN LIGHTS BLVD
ANCHORAGE		PO Number:	
AK		State:	Alaska
99503-7432		State Cert. No.:	
ph: (907) 561-3478	fax:	Date Reported:	6/27/02

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.

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.

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

TOTAL NUMBER OF PAGES IN THIS REPORT: 32 PAGES

Anthony Duhon
Project Manager

6/27/02
Date

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SHELL OIL PRODUCTS

Certificate of Analysis Number:

02060086

Report To: GEO ENGINEERS, INC
JAMIE OAKLEY
4951 EAGLE STREET

ANCHORAGE
AK
99503-7432
ph: (907) 561-3478 fax: (907) 561-5123

Fax To:

Project Name: 9876-004-00
Site: NORTHERN LIGHTS TEXACO
Site Address: 1501 NORTHERN LIGHTS BLVD

PO Number:
State: Alaska
State Cert. No.:
Date Reported: 6/27/02

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	02060086-01	Water	6/1/02 11:30:00 AM	6/4/02 10:00:00 AM	157320	☐
MW-C	02060086-02	Water	6/1/02 12:00:00 PM	6/4/02 10:00:00 AM	157320	☐
MW-D	02060086-03	Water	6/1/02 12:10:00 PM	6/4/02 10:00:00 AM	157320	☐
MW-E	02060086-04	Water	6/1/02 12:20:00 PM	6/4/02 10:00:00 AM	157320	☐
MW-F	02060086-05	Water	6/1/02 12:30:00 PM	6/4/02 10:00:00 AM	157320	☐
DUPLICATE	02060086-06	Water	6/1/02	6/4/02 10:00:00 AM	157320	☐
RIP BLANK	02060086-07	Water	6/1/02	6/4/02 10:00:00 AM	157320	☐

nthony Duhon
roject Manager

6/27/02
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

6/27/02 9:16:51 AM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-1 **Collected:** 06/01/2002 11:30 **SPL Sample ID:** 02060086-01

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		1	1		06/10/02 19:56	TO	395248
Ethylbenzene	ND		1	1		06/10/02 19:56	TO	395248
Toluene	ND		1	1		06/10/02 19:56	TO	395248
m,p-Xylene	ND		2	1		06/10/02 19:56	TO	395248
o-Xylene	ND		1	1		06/10/02 19:56	TO	395248
Xylenes,Total	ND		3	1		06/10/02 19:56	TO	395248
Surr: 1,4-Difluorobenzene	97.7	%	41-143	1		06/10/02 19:56	TO	395248
Surr: 4-Bromofluorobenzene	63.7	%	39-160	1		06/10/02 19:56	TO	395248
DIESEL RANGE ORGANICS- AK			**MCL**	**AK_DRO**		**Units: mg/L**		
Diesel Range Organics	0.19		0.1	1		06/12/02 21:24	SSH	399057
Surr: o-Terphenyl	116	%	50-150	1		06/12/02 21:24	SSH	399057

Prep Method	Prep Date	Prep Initials
SW3510B	06/05/2002 13:54	COM

GASOLINE RANGE ORGANICS- ALASKA			**MCL**	**AK_GRO**		**Units: mg/L**		
Gasoline Range Organics	ND		0.1	1		06/10/02 19:56	TO	395700
Surr: 4-Bromofluorobenzene	60.2	%	60-120	1		06/10/02 19:56	TO	395700
RESIDUAL RANGE ORGANICS-AK			**MCL**	**AK_RRO**		**Units: mg/L**		
Residual Range Organics	0.34		0.1	1		06/12/02 21:24	COH	410415
Surr: o-Terphenyl	116	%	50-150	1		06/12/02 21:24	COH	410415

Qualifiers:

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J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-C **Collected:** 06/01/2002 12:00 **SPL Sample ID:** 02060086-02

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		1	1		06/10/02 20:24	TO	395250
Ethylbenzene	ND		1	1		06/10/02 20:24	TO	395250
Toluene	ND		1	1		06/10/02 20:24	TO	395250
m,p-Xylene	2.3		2	1		06/10/02 20:24	TO	395250
o-Xylene	8.8		1	1		06/10/02 20:24	TO	395250
Xylenes,Total	11.1		3	1		06/10/02 20:24	TO	395250
Surr: 1,4-Difluorobenzene	94.7	%	41-143	1		06/10/02 20:24	TO	395250
Surr: 4-Bromofluorobenzene	83.6	%	39-160	1		06/10/02 20:24	TO	395250
GASOLINE RANGE ORGANICS- ALASKA			**MCL**	**AK_GRO**		**Units: mg/L**		
Gasoline Range Organics	ND		0.1	1		06/10/02 20:24	TO	395703
Surr: 4-Bromofluorobenzene	81.7	%	60-120	1		06/10/02 20:24	TO	395703

Qualifiers:

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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-C **Collected:** 06/01/2002 12:00 **SPL Sample ID:** 02060086-02

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/L**		
1,1,1-Trichloroethane	ND		5	1		06/05/02 13:33	JCB	390261
1,1,2,2-Tetrachloroethane	ND		5	1		06/05/02 13:33	JCB	390261
1,1,2-Trichloroethane	ND		5	1		06/05/02 13:33	JCB	390261
1,1-Dichloroethane	ND		5	1		06/05/02 13:33	JCB	390261
1,1-Dichloroethene	ND		5	1		06/05/02 13:33	JCB	390261
1,2-Dichloroethane	ND		5	1		06/05/02 13:33	JCB	390261
1,2-Dichloropropane	ND		5	1		06/05/02 13:33	JCB	390261
2-Butanone	ND		20	1		06/05/02 13:33	JCB	390261
2-Hexanone	ND		10	1		06/05/02 13:33	JCB	390261
4-Methyl-2-pentanone	ND		10	1		06/05/02 13:33	JCB	390261
Acetone	ND		100	1		06/05/02 13:33	JCB	390261
Benzene	ND		5	1		06/05/02 13:33	JCB	390261
Bromodichloromethane	ND		5	1		06/05/02 13:33	JCB	390261
Bromoform	ND		5	1		06/05/02 13:33	JCB	390261
Bromomethane	ND		10	1		06/05/02 13:33	JCB	390261
Carbon disulfide	ND		5	1		06/05/02 13:33	JCB	390261
Carbon tetrachloride	ND		5	1		06/05/02 13:33	JCB	390261
Chlorobenzene	ND		5	1		06/05/02 13:33	JCB	390261
Chloroethane	ND		10	1		06/05/02 13:33	JCB	390261
Chloroform	ND		5	1		06/05/02 13:33	JCB	390261
Chloromethane	ND		5	1		06/05/02 13:33	JCB	390261
cis-1,3-Dichloropropene	ND		5	1		06/05/02 13:33	JCB	390261
Dibromochloromethane	ND		5	1		06/05/02 13:33	JCB	390261
Ethylbenzene	ND		5	1		06/05/02 13:33	JCB	390261
Methylene chloride	ND		5	1		06/05/02 13:33	JCB	390261
Styrene	ND		5	1		06/05/02 13:33	JCB	390261
Tetrachloroethene	ND		5	1		06/05/02 13:33	JCB	390261
Toluene	ND		5	1		06/05/02 13:33	JCB	390261
trans-1,3-Dichloropropene	ND		5	1		06/05/02 13:33	JCB	390261
Trichloroethene	ND		5	1		06/05/02 13:33	JCB	390261
Trichlorofluoromethane	ND		5	1		06/05/02 13:33	JCB	390261
Vinyl acetate	ND		10	1		06/05/02 13:33	JCB	390261
Vinyl chloride	ND		10	1		06/05/02 13:33	JCB	390261
cis-1,2-Dichloroethene	ND		5	1		06/05/02 13:33	JCB	390261
m,p-Xylene	ND		5	1		06/05/02 13:33	JCB	390261
o-Xylene	ND		5	1		06/05/02 13:33	JCB	390261
trans-1,2-Dichloroethene	ND		5	1		06/05/02 13:33	JCB	390261
1,2-Dichloroethene (total)	ND		5	1		06/05/02 13:33	JCB	390261
Xylenes,Total	ND		5	1		06/05/02 13:33	JCB	390261
Surr: 1,2-Dichloroethane-d4	96.7	%	71-131	1		06/05/02 13:33	JCB	390261

Qualifiers:

ND/U - Not Detected at the Reporting Limit
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MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-C **Collected:** 06/01/2002 12:00 **SPL Sample ID:** 02060086-02

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Surr: 4-Bromofluorobenzene	101	%	86.3-112	1		06/05/02 13:33	JCB	390261
Surr: Toluene-d8	99.1	%	89.5-108	1		06/05/02 13:33	JCB	390261

Qualifiers:

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J - Estimated Value between MDL and PQL
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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-D **Collected:** 06/01/2002 12:10 **SPL Sample ID:** 02060086-03

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B			MCL	SW8021B		Units: ug/L		
Benzene	ND		1	1		06/10/02 20:52	TO	395252
Ethylbenzene	6.1		1	1		06/10/02 20:52	TO	395252
Toluene	2.1		1	1		06/10/02 20:52	TO	395252
m,p-Xylene	16		2	1		06/10/02 20:52	TO	395252
o-Xylene	4.5		1	1		06/10/02 20:52	TO	395252
Xylenes,Total	20.5		3	1		06/10/02 20:52	TO	395252
Surr: 1,4-Difluorobenzene	96.9	%	41-143	1		06/10/02 20:52	TO	395252
Surr: 4-Bromofluorobenzene	105	%	39-160	1		06/10/02 20:52	TO	395252
GASOLINE RANGE ORGANICS- ALASKA			MCL	AK_GRO		Units: mg/L		
Gasoline Range Organics	0.61		0.1	1		06/10/02 20:52	TO	395704
Surr: 4-Bromofluorobenzene	94.5	%	60-120	1		06/10/02 20:52	TO	395704

Qualifiers:

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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-E **Collected:** 06/01/2002 12:20 **SPL Sample ID:** 02060086-04

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	130		1		1		06/10/02 21:20	TO	395254
Ethylbenzene	220		1		1		06/10/02 21:20	TO	395254
Toluene	100		1		1		06/10/02 21:20	TO	395254
m,p-Xylene	1500		20		10		06/11/02 12:19	TO	398415
o-Xylene	730		10		10		06/11/02 12:19	TO	398415
Xylenes,Total	2230		30		10		06/11/02 12:19	TO	398415
Surr: 1,4-Difluorobenzene	97.1	%	41-143		10		06/11/02 12:19	TO	398415
Surr: 1,4-Difluorobenzene	96.2	%	41-143		1		06/10/02 21:20	TO	395254
Surr: 4-Bromofluorobenzene	102	%	39-160		10		06/11/02 12:19	TO	398415
Surr: 4-Bromofluorobenzene	198	%	39-160		1	MI	06/10/02 21:20	TO	395254
GASOLINE RANGE ORGANICS- ALASKA				**MCL**	**AK_GRO**		**Units: mg/L**		
Gasoline Range Organics	8.5		0.1		1		06/10/02 21:20	TO	395706
Surr: 4-Bromofluorobenzene	113	%	60-120		1		06/10/02 21:20	TO	395706

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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-E **Collected:** 06/01/2002 12:20 **SPL Sample ID:** 02060086-04

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS METHOD 8260B			**MCL**	**SW8260B**		**Units: ug/L**		
1,1,1-Trichloroethane	ND		5	1		06/05/02 13:56	JCB	390262
1,1,2,2-Tetrachloroethane	ND		5	1		06/05/02 13:56	JCB	390262
1,1,2-Trichloroethane	ND		5	1		06/05/02 13:56	JCB	390262
1,1-Dichloroethane	ND		5	1		06/05/02 13:56	JCB	390262
1,1-Dichloroethene	ND		5	1		06/05/02 13:56	JCB	390262
1,2-Dichloroethane	ND		5	1		06/05/02 13:56	JCB	390262
1,2-Dichloropropane	ND		5	1		06/05/02 13:56	JCB	390262
2-Butanone	ND		20	1		06/05/02 13:56	JCB	390262
2-Hexanone	ND		10	1		06/05/02 13:56	JCB	390262
4-Methyl-2-pentanone	ND		10	1		06/05/02 13:56	JCB	390262
Acetone	ND		100	1		06/05/02 13:56	JCB	390262
Benzene	92		5	1		06/05/02 13:56	JCB	390262
Bromodichloromethane	ND		5	1		06/05/02 13:56	JCB	390262
Bromoform	ND		5	1		06/05/02 13:56	JCB	390262
Bromomethane	ND		10	1		06/05/02 13:56	JCB	390262
Carbon disulfide	ND		5	1		06/05/02 13:56	JCB	390262
Carbon tetrachloride	ND		5	1		06/05/02 13:56	JCB	390262
Chlorobenzene	ND		5	1		06/05/02 13:56	JCB	390262
Chloroethane	ND		10	1		06/05/02 13:56	JCB	390262
Chloroform	ND		5	1		06/05/02 13:56	JCB	390262
Chloromethane	ND		5	1		06/05/02 13:56	JCB	390262
cis-1,3-Dichloropropene	ND		5	1		06/05/02 13:56	JCB	390262
Dibromochloromethane	ND		5	1		06/05/02 13:56	JCB	390262
Ethylbenzene	150		5	1		06/05/02 13:56	JCB	390262
Methylene chloride	ND		5	1		06/05/02 13:56	JCB	390262
Styrene	ND		5	1		06/05/02 13:56	JCB	390262
Tetrachloroethene	ND		5	1		06/05/02 13:56	JCB	390262
Toluene	59		5	1		06/05/02 13:56	JCB	390262
trans-1,3-Dichloropropene	ND		5	1		06/05/02 13:56	JCB	390262
Trichloroethene	ND		5	1		06/05/02 13:56	JCB	390262
Trichlorofluoromethane	ND		5	1		06/05/02 13:56	JCB	390262
Vinyl acetate	ND		10	1		06/05/02 13:56	JCB	390262
Vinyl chloride	ND		10	1		06/05/02 13:56	JCB	390262
cis-1,2-Dichloroethene	ND		5	1		06/05/02 13:56	JCB	390262
m,p-Xylene	2900		100	20		06/06/02 13:41	JCB	391697
o-Xylene	1200		100	20		06/06/02 13:41	JCB	391697
trans-1,2-Dichloroethene	ND		5	1		06/05/02 13:56	JCB	390262
1,2-Dichloroethene (total)	ND		5	1		06/05/02 13:56	JCB	390262
Xylenes,Total	4100		100	20		06/06/02 13:41	JCB	391697
Surr: 1,2-Dichloroethane-d4	97.6	%	71-131	1		06/05/02 13:56	JCB	390262

Qualifiers:

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MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-E **Collected:** 06/01/2002 12:20 **SPL Sample ID:** 02060086-04

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Surr: 1,2-Dichloroethane-d4	102	%	71-131	20		06/06/02 13:41	JCB	391697
Surr: 4-Bromofluorobenzene	102	%	86.3-112	1		06/05/02 13:56	JCB	390262
Surr: 4-Bromofluorobenzene	101	%	86.3-112	20		06/06/02 13:41	JCB	391697
Surr: Toluene-d8	97.8	%	89.5-108	20		06/06/02 13:41	JCB	391697
Surr: Toluene-d8	99.4	%	89.5-108	1		06/05/02 13:56	JCB	390262

Qualifiers:

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MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-F **Collected:** 06/01/2002 12:30 **SPL Sample ID:** 02060086-05

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		1	1		06/11/02 1:05	TO	395260
Ethylbenzene	30		1	1		06/11/02 1:05	TO	395260
Toluene	1.1		1	1		06/11/02 1:05	TO	395260
m,p-Xylene	30		2	1		06/11/02 1:05	TO	395260
o-Xylene	1.6		1	1		06/11/02 1:05	TO	395260
Xylenes,Total	31.6		3	1		06/11/02 1:05	TO	395260
Surr: 1,4-Difluorobenzene	88.5	%	41-143	1		06/11/02 1:05	TO	395260
Surr: 4-Bromofluorobenzene	127	%	39-160	1		06/11/02 1:05	TO	395260
GASOLINE RANGE ORGANICS- ALASKA			**MCL**	**AK_GRO**		**Units: mg/L**		
Gasoline Range Organics	0.57		0.1	1		06/11/02 1:05	TO	395714
Surr: 4-Bromofluorobenzene	112	%	60-120	1		06/11/02 1:05	TO	395714

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
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D - Surrogate Recovery Unreportable due to Dilution
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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUPLICATE **Collected:** 06/01/2002 0:00 **SPL Sample ID:** 02060086-06

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	130		1		1		06/09/02 0:39	JKM	393209
Ethylbenzene	240		1		1		06/09/02 0:39	JKM	393209
Toluene	110		1		1		06/09/02 0:39	JKM	393209
m,p-Xylene	2100		20		10		06/09/02 23:08	JKM	396538
o-Xylene	900		10		10		06/09/02 23:08	JKM	396538
Xylenes,Total	3000		30		10		06/09/02 23:08	JKM	396538
Surr: 1,4-Difluorobenzene	98.3	%	41-143		10		06/09/02 23:08	JKM	396538
Surr: 1,4-Difluorobenzene	93.2	%	41-143		1		06/09/02 0:39	JKM	393209
Surr: 4-Bromofluorobenzene	108	%	39-160		10		06/09/02 23:08	JKM	396538
Surr: 4-Bromofluorobenzene	168	%	39-160		1	MI	06/09/02 0:39	JKM	393209
GASOLINE RANGE ORGANICS- ALASKA				**MCL**	**AK_GRO**		**Units: mg/L**		
Gasoline Range Organics	6.5		0.1		1		06/09/02 0:39	JKM	412461
Surr: 4-Bromofluorobenzene	101	%	60-120		1		06/09/02 0:39	JKM	412461

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
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J - Estimated Value between MDL and PQL
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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: TRIP BLANK **Collected:** 06/01/2002 0:00 **SPL Sample ID:** 02060086-07

Site: NORTHERN LIGHTS TEXACO

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		1	1		06/11/02 2:02	TO	395264
Ethylbenzene	ND		1	1		06/11/02 2:02	TO	395264
Toluene	ND		1	1		06/11/02 2:02	TO	395264
m,p-Xylene	ND		2	1		06/11/02 2:02	TO	395264
o-Xylene	ND		1	1		06/11/02 2:02	TO	395264
Xylenes,Total	ND		3	1		06/11/02 2:02	TO	395264
Surr: 1,4-Difluorobenzene	99.0	%	41-143	1		06/11/02 2:02	TO	395264
Surr: 4-Bromofluorobenzene	65.7	%	39-160	1		06/11/02 2:02	TO	395264
GASOLINE RANGE ORGANICS- ALASKA			**MCL**	**AK_GRO**		**Units: mg/L**		
Gasoline Range Organics	ND		0.1	1		06/11/02 2:02	TO	395718
Surr: 4-Bromofluorobenzene	61.1	%	60-120	1		06/11/02 2:02	TO	395718

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: Diesel Range Organics- AK
Method: AK_DRO

WorkOrder: 02060086
Lab Batch ID: 8141

Method Blank

RunID: TPHB_020612A-399041 Units: mg/L
Analysis Date: 06/12/2002 18:38 Analyst: SSH
Preparation Date: 06/05/2002 13:54 Prep By: COM Method SW3510B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-01B	MW-1

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.10
Surr: o-Terphenyl	90.6	60-120

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

RunID: TPHB_020612A-399042 Units: mg/L
Analysis Date: 06/12/2002 18:49 Analyst: SSH
Preparation Date: 06/05/2002 13:54 Prep By: COM Method SW3510B

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics	3	2.5	83	3	2.9	96	14.2	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

6/27/02 9:16:58 AM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis:	**Residual Range Organics-AK**	**WorkOrder:**	**02060086**
Method:	**AK_RRO**	**Lab Batch ID:**	**R24677**

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-01B	MW-1

Qualifiers:

- ND/U - Not Detected at the Reporting Limit
- B - Analyte detected in the associated Method Blank
- J - Estimated value between MDL and PQL
- MI - Matrix Interference
- D - Recovery Unreportable due to Dilution
- * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: BTEX by Method 8021B
Method: SW8021B

WorkOrder: 02060086
Lab Batch ID: R23549

Method Blank

RunID: HPOO_020608A-393199 Units: ug/L
Analysis Date: 06/08/2002 19:41 Analyst: JKM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-06A	DUPLICATE

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Surr: 1,4-Difluorobenzene	97.7	57-136
Surr: 4-Bromofluorobenzene	99.2	58-137

Laboratory Control Sample (LCS)

RunID: HPOO_020608A-393197 Units: ug/L
Analysis Date: 06/08/2002 16:49 Analyst: JKM

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	54	107	70	130
Ethylbenzene	50	52	104	70	130
Toluene	50	53	105	70	130

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

Sample Spiked: 02060137-08
RunID: HPOO_020608A-393211 Units: ug/L
Analysis Date: 06/09/2002 12:59 Analyst: JKM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	200	240	119	200	220	110	8.42	20	70	130
Ethylbenzene	ND	200	1900	968 *	200	1900	945 *	2.39	20	70	130
Toluene	ND	200	4200	2090 *	200	4100	2040 *	2.33	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

6/27/02 9:16:59 AM

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: BTEX by Method 8021B
Method: SW8021B
WorkOrder: 02060086
Lab Batch ID: R23680

Method Blank

RunID: HPZZ_020610A-395234 Units: ug/L
Analysis Date: 06/10/2002 14:33 Analyst: TO

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	3.0
Surr: 1,4-Difluorobenzene	98.5	57-136
Surr: 4-Bromofluorobenzene	69.4	58-137

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-01A	MW-1
02060086-02A	MW-C
02060086-03A	MW-D
02060086-04A	MW-E
02060086-05A	MW-F
02060086-07A	TRIP BLANK

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

RunID: HPZZ_020610A-396842 Units: ug/L
Analysis Date: 06/10/2002 11:32 Analyst: TO

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	50	55	110	50	54	108	2.4	20	70	130
Ethylbenzene	50	57	113	50	56	111	1.7	20	70	130
Toluene	50	57	114	50	55	110	3.2	20	70	130
m,p-Xylene	100	110	114	100	110	112	1.4	20	70	130
o-Xylene	50	55	110	50	54	108	1.7	20	70	130
Xylenes,Total	150	165	110	150	164	109	0.6	20	70	130

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

Sample Spiked: 02060086-01
RunID: HPZZ_020610A-395255 Units: ug/L
Analysis Date: 06/10/2002 21:48 Analyst: TO

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20	97.9	20	20	97.8	0.0981	20	70	130
Ethylbenzene	ND	20	19	95.9	20	19	92.8	3.34	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

6/27/02 9:16:59 AM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: BTEX by Method 8021B
Method: SW8021B

WorkOrder: 02060086
Lab Batch ID: R23680

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

Sample Spiked: 02060086-01
RunID: HPZZ_020610A-395255 Units: ug/L
Analysis Date: 06/10/2002 21:48 Analyst: TO

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Toluene	ND	20	20	98.0	20	20	99.1	1.16	20	70	130
m,p-Xylene	ND	40	44	111	40	39	97.4	13.3	20	70	130
o-Xylene	ND	20	22	109	20	19	93.0	16.0	20	70	130
Xylenes,Total	ND	60	66	110	60	58	96.7	12.9	20	70	130

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

Sample Spiked: 02060212-02
RunID: HPZZ_020610A-396931 Units: ug/L
Analysis Date: 06/10/2002 16:26 Analyst: TO

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	630	200	540	-44.7 *	200	540	-45.2 *	1.04	20	70	130
Ethylbenzene	83	200	210	64.4 *	200	220	66.6 *	3.37	20	70	130
Toluene	49	200	180	64.2 *	200	180	63.7 *	0.716	20	70	130
m,p-Xylene	30	400	340	77.4	400	340	78.1	0.918	20	70	130
o-Xylene	24	200	170	70.7	200	170	72.0	1.79	20	70	130
Xylenes,Total	54	600	510	76.0	600	510	76.0	0	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: Gasoline Range Organics- ALASKA
Method: AK_GRO
WorkOrder: 02060086
Lab Batch ID: R23699

Method Blank

RunID: HPZZ_020610C-395697 Units: mg/L
Analysis Date: 06/10/2002 14:33 Analyst: TO

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 4-Bromofluorobenzene	67.7	60-120

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-01A	MW-1
02060086-02A	MW-C
02060086-03A	MW-D
02060086-04A	MW-E
02060086-05A	MW-F
02060086-07A	TRIP BLANK

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

RunID: HPZZ_020610C-395694 Units: mg/L
Analysis Date: 06/10/2002 13:09 Analyst: TO

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics	5	5.6	113	5	5	101	11.4	20	70	130

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

Sample Spiked: 02060087-08
RunID: HPZZ_020610C-395707 Units: mg/L
Analysis Date: 06/10/2002 22:44 Analyst: TO

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	1.1	5	6	98.2	5	5.8	92.4	6.01	20	50	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: BTEX by Method 8021B
Method: SW8021B

WorkOrder: 02060086
Lab Batch ID: R23754

Method Blank

RunID: HPOO_020609A-396520 Units: ug/L
Analysis Date: 06/09/2002 19:51 Analyst: JKM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-06A	DUPLICATE

Analyte	Result	Rep Limit
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	3.0
Surr: 1,4-Difluorobenzene	98.2	57-136
Surr: 4-Bromofluorobenzene	100.8	58-137

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

RunID: HPOO_020609A-396518 Units: ug/L
Analysis Date: 06/09/2002 16:48 Analyst: JKM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Xylene	100	110	112	100	110	107	3.8	20	70	130
ylene	50	54	108	50	52	105	3.2	20	70	130
Xylenes,Total	150	164	109	150	162	108	1.2	20	70	130

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

Sample Spiked: 02060087-08
RunID: HPOO_020609A-396525 Units: ug/L
Analysis Date: 06/10/2002 1:29 Analyst: JKM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Xylene	ND	400	2500	625 *	400	2400	603 *	3.58	20	70	130
-Xylene	ND	200	1100	549 *	200	1100	530 *	3.38	20	70	130
nes,Total	ND	600	3600	600 *	600	3500	583 *	2.82	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: BTEX by Method 8021B
Method: SW8021B
WorkOrder: 02060086
Lab Batch ID: R23884

Method Blank

RunID: HPZZ_020611A-398440 Units: ug/L
Analysis Date: 06/11/2002 8:08 Analyst: TO

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-04A	MW-E

Analyte	Result	Rep Limit
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	3.0
Surr: 1,4-Difluorobenzene	96.1	57-136
Surr: 4-Bromofluorobenzene	81.0	58-137

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

RunID: HPZZ_020611A-398434 Units: ug/L
Analysis Date: 06/11/2002 5:48 Analyst: TO

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
m,p-Xylene	100	110	113	100	110	108	4.9	20	70	130
o-Xylene	50	55	109	50	53	107	2.5	20	70	130
Xylenes,Total	150	165	110	150	163	109	1.2	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

6/27/02 9:17:00 AM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: Gasoline Range Organics- ALASKA
Method: AK_GRO

WorkOrder: 02060086
Lab Batch ID: R24835

Method Blank

RunID: HPOO_020608B-412460 Units: mg/L
Analysis Date: 06/08/2002 19:41 Analyst: JKM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-06A	DUPLICATE

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 4-Bromofluorobenzene	100.7	60-120

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

RunID: HPOO_020608B-412458 Units: mg/L
Analysis Date: 06/08/2002 18:15 Analyst: JKM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics	5	5.6	111	5	5.3	106	5.4	20	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

6/27/02 9:17:00 AM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: Volatile Organics Method 8260B
Method: SW8260B
WorkOrder: 02060086
Lab Batch ID: R23326

Method Blank

RunID: X_020605A-390259 Units: ug/L
Analysis Date: 06/05/2002 11:41 Analyst: JCB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-02B	MW-C
02060086-04B	MW-E

Analyte	Result	Rep Limit
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
1,2-Dichloroethane	ND	5.0
1,2-Dichloropropane	ND	5.0
2-Butanone	ND	20
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
Acetone	ND	100
Benzene	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	5.0
cis-1,3-Dichloropropene	ND	5.0
Dibromochloromethane	ND	5.0
Ethylbenzene	ND	5.0
Methylene chloride	ND	5.0
Styrene	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl acetate	ND	10
Vinyl chloride	ND	10
cis-1,2-Dichloroethene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
1,2-Dichloroethene (total)	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	96.9	71-131
Surr: 4-Bromofluorobenzene	101.0	86.3-112
Surr: Toluene-d8	97.9	89.5-108

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

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: Volatile Organics Method 8260B
Method: SW8260B

WorkOrder: 02060086
Lab Batch ID: R23326

RunID: X_020605A-390254 Units: ug/L
Analysis Date: 06/05/2002 10:56 Analyst: JCB

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	50	54	108	50	55	111	2.9	18.9	73.7	125
Benzene	50	48	95	50	48	96	0.8	29.5	75.6	117
Chlorobenzene	50	53	107	50	53	107	0.3	11.3	84.3	120
Toluene	50	48	95	50	49	97	2.3	16.3	81.4	112
Trichloroethene	50	49	98	50	51	103	4.9	14.2	81.6	116

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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500 AMBASSADOR CAFFERY PARKWAY
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Quality Control Report

SHELL OIL PRODUCTS

9876-004-00

Analysis: Volatile Organics Method 8260B
Method: SW8260B
WorkOrder: 02060086
Lab Batch ID: R23435

Method Blank

RunID: X_020606A-391691 Units: ug/L
Analysis Date: 06/06/2002 11:26 Analyst: JCB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02060086-04B	MW-E

Analyte	Result	Rep Limit
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	95.2	71-131
Surr: 4-Bromofluorobenzene	103.2	86.3-112
Surr: Toluene-d8	99.0	89.5-108

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

RunID: X_020606A-391689 Units: ug/L
Analysis Date: 06/06/2002 10:41 Analyst: JCB

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	50	52	104	50	54	109	4.2	18.9	73.7	125
Benzene	50	45	91	50	48	96	5.7	29.5	75.6	117
Chlorobenzene	50	51	103	50	54	108	4.8	11.3	84.3	120
Toluene	50	46	91	50	48	96	4.6	16.3	81.4	112
Trichloroethene	50	48	96	50	49	98	2.5	14.2	81.6	116

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	02060086	Received By:	GAS
Date and Time Received:	6/4/02 10:00:00 AM	Carrier name:	FedEx-Economy-2nd Day P
Temperature:	6C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present ☐
2.	Custody seals intact on shippping 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?	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	☐	Not Applicable ☐
13.	Water - pH acceptable upon receipt?	Yes	☑	No	☐	Not Applicable ☐

SPL Representative: Duhon, Anthony
Contact Date & Time:
Client Name Contacted:

Non Conformance Issues:

Client Instructions:

USA Airbill

8262 1409 6114

0215 Form I.D. No.

SNA12

FedEx Copy

-3-02 Sender's FedEx Account Number

Sender's Name Geo Engineers Jamie Oackley Phone 907 561-3478

Company Geoengineers

Address 4951 Eagle St. Dept/Floor/Suite/Room

City Anchorage State AK ZIP 99503

Your Internal Billing Reference

To

Recipient's Name Sample Receiving Phone 337 237-4775

Company SOUTHERN PETROLEUM LAB

Address 500 AMBASSADOR CAFFERY PKWY Dept/Floor/Suite/Room

For "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

City SCOTT State LA ZIP 70583

8262 1409 6114

0175385539

4a Express Package Service

Packages up to 150 lbs. Delivery commitment may be later in some areas.

1 ☐ FedEx Priority Overnight — Next business morning

5 ☒ FedEx Standard Overnight — Next business afternoon

6 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations

3 ☐ FedEx 2Day* — Second business day

20 ☐ FedEx Express Saver* — Third business day

*FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service

Packages over 150 lbs. Delivery commitment may be later in some areas.

7 ☐ FedEx 1Day Freight* — Next business day

8 ☐ FedEx 2Day Freight — Second business day

83 ☐ FedEx 3Day Freight — Third business day

*Call for Confirmation:

5 Packaging

*Declared value limit $500

6 ☐ FedEx Envelope/Letter*

2 ☐ FedEx Pak*

1 ☑ Other Pkg. Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

Include FedEx address in Section 3.

3 ☐ SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes

33 ☐ SUNDAY Delivery — Available only for FedEx Priority Overnight to select ZIP codes

1 ☐ HOLD Weekday at FedEx Location — Not available with FedEx First Overnight

31 ☐ HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

☑ No

4 ☐ Yes As per attached Shipper's Declaration

☐ Yes Shipper's Declaration not required

6 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☐ Sender — Acct. No. in Section 1 will be billed.

2 ☒ Recipient

3 ☐ Third Party

4 ☐ Credit Card

5 ☐ Cash/Check

☐ Obtain Recip. Acct. No.

FedEx Acct. No. / Credit Card No. 0705-0114-7 Exp. Date

Total Packages	Total Weight	Total Declared Value†	Total Charges
5	15	$ —.00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature

Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No: 0206 0086 *

157320

page 1 of 1

Client Name: Shell Oil Products

Address/Phone: 4957 Eagle St Anchorage, AK 99503

Client Contact: Jamie Oakley – GeoEngineers

Project Name: Northern Lights Texaco

Project Number: 9876-004-00

Project Location: 1501 Northern Lights Blvd

Invoice To: Shell Oil Products

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil SL=sludge O=other:)	bottle (P=plastic A=amber glass G=glass V=vial)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz)	pres. (1=HCl 2=HNO3 3=H2SO4 O=other:)	Number of Containers	Requested Analysis: GRO/BeTX AK 101	DRO/RRO AK 102/103	HVOC's EPA 8260B						
MW-1	6-1-02	1130			W	A/V	1/40	1	5	X	X							
MW-C	6-1-02	1200				A/V	1/40	1	5	X	*	X						
MW-D	6-1-02	1210				V	40	1	3	X								
MW-E	6-1-02	1220				V	40	1	5	X		X						
MW-F	6-1-02	1230				V	40	1	3	X								
Duplicate	6-1-02	—			W	V	40	1	3	X								
Trip Blank	6/1/02	—			W	V	40	1	3	X								

Client/Consultant Remarks:

Laboratory remarks: (W-8 MT-3) PCB-EX 8260 1409 6114

Intact? ☒ Y ☐ N

Temp: 6C

Requested TAT

24hr ☐ 72hr ☐

48hr ☐ Standard ☒

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Dee Rail	6/3/02	1400	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 6/4/02	time 10:00	6. Received by Laboratory:

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775