1R- 452

REPORTS

DATE:

1/18/2005



1703 W. Industrial Ave. Midland, Texas 79701 (432) 686-8081

November 18, 2005

Mr. Wayne Price New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: ConocoPhillips Flowline 87 Section 22, T17S, R32E Request for Closure

Dear Mr. Price:

On behalf of ConocoPhillips, Maxim Technologies (Maxim) is submitting this report to describe actions taken to remediate soils at ConocoPhillips Flowline 87 historic release site (Site). This work was in support of ConocoPhillips efforts to voluntarily restore areas that may have been damaged by historic work practices in the Maljamar Unit located in Lea County. The Site is located below Mescalero Ridge, approximately 0.9 miles east of ConocoPhillips MCA Unit Office in Lea County, New Mexico (Figure 1; N32° 48.969N, W103° 45.249W, NAD27). The U.S. Bureau of Land Management (BLM) administers the land at this Site. This report describes the path forward for closure for soil remediation at this Site in accordance with New Mexico Oil Conservation Division's (NMOCD) e-mail guidance, dated August 12, 2005 (Attachment A).

BACKGROUND

As described in Maxim's April 27, 2005 Findings Report, three soil borings were advanced (March 28-30) to describe the subsurface soil environment at the site. Soil Boring SB-1 was advanced to a depth of 68 feet below ground surface (fbgs). Red Bed clay was penetrated at approximately 45 fbgs and groundwater was not encountered. Maxim was informed by NMOCD that if groundwater was not impacted, then only surface remediation would be needed. Following the ranking criteria presented in "Guidelines for Remediation of Leaks, Spills, and Releases" promulgated on August 13, 1993 by the NMOCD this Site had the following score;

		<u>Ranking</u>
<u>Criteria</u>		<u>Score</u>
Depth to groundwater	>100 feet	0
Distance from water source	>1000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	>200 feet	<u>0</u>

Total Ranking Score

0

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The remediation action level for a ranking score of 0 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 ppm for total petroleum hydrocarbons (TPH).

SCOPE OF WORK

Remediation activities were conducted on Site from October 24 through October 28, 2005 in accordance with the plan approved by the NMOCD, August 12, 2005 (Attachment A). These activities included removing affected soil from the site, backfilling the area with suitable material, capping the backfill with two feet of clean topsoil, and seeding the entire site with a seed mix prescribed by the BLM. The NMOCD approved work plan included:

- 1. Soil in the area of SB-1 was excavated to remove the most highly affected soils. This soil was hauled to a State approved disposal facility
- 2. The excavated area was TPH field screened using a PetroFLAG System to determine when petroleum hydrocarbon affected soil had been successfully removed (USEPA 2001⁻). Aliquot soil samples were collected in a "W" pattern, composited into one sample for each sidewall and floor, and field analyzed using a Photo-Ionization Detector (PID) and PetroFLAG to determine that remediation levels had been achieved. Companion composite samples were also be submitted to a laboratory for TPH (GRO, DRO) and BTEX analysis to confirm that hydrocarbons have been removed.
- 3. Clean backfill was placed into an excavation of approximately 154'L X 30'W to a depth of approximately 5 feet. At the SB-1 location an area approximately 15 feet in diameter and approximately 15 feet deep was excavated and backfilled. Two feet of topsoil, with no rocks or debris, was used as top cover. The BLM prescribed seed mix was spread out over the entire area and the seed was covered by dragging a chain-linked screen over the area. Photographs were taken to document the before and after treatment at the site (Figure 1).

FINDINGS

The soils encountered during excavation activities at the Site consisted of mostly brownish-red sands with caliche bands. In all areas caliche bands were encountered in the 5 to 6 feet below ground surface (fbgs) range. A summary of field screening data is presented in Table 1. Most of the sampling locations had measurable concentrations of volatile organic compounds (VOC's) above non-detectable levels ranging from 0 - 194.2 ppm using the PID.

Seven rounds of PetroFLAG sampling occurred before confirmation samples were taken. The concentrations of TPH diesel range organics (DRO) tested by PetroFLAG in the soils ranged from 184 - >5,000 milligrams per kilogram (mg/kg) TPH.

¹ U.S. Environmental Protection Agency, 2001. Innovative Technology Verification Report, Dexsil Corporation PetroFLAG System. Prepared by Tetra Tech EM Inc. for USEPA National Exposure Research Laboratory Office of Research and Development. EPA/R-01/092.

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The concentrations of field-screened chlorides are presented in Table 1. Detectable concentrations of chlorides were detectable in all sampling locations and ranged from 50 - 670 ppm.

Confirmation analysis for TPH, BTEX and chlorides are presented in Table 2. BTEX concentration levels were non-detectable, TPH concentration levels were below remediation guidelines (5,000 mg/kg), and chloride levels ranged from 12.7 - 1,100 mg/kg.

CONCLUSIONS

Approximately 1,518 cubic yards of affected soil was removed from the area at Flowline 87 and hauled to CRI – Midway for disposal. Clean material was returned from CRI-Midway and used as backfill. A topsoil layer was placed on top of the backfill and BLM approved seed mix was dispersed onto the surface.

According to laboratory analysis of soils collected during this remediation, TPH concentrations were below remediation guidelines. Total BTEX concentrations were not detected. Based on the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" by NMOCD, this Site has been remediated.

RECOMMENDATIONS

Based on the work performed at this Site, Maxim recommends no further action is required. Upon your review and approval of this report, Maxim on behalf of ConocoPhillips, requests closure for this historic spill site location. If you have any questions or need additional information, please call Mr. Neal Goates (ConocoPhillips, 823-379-6427) or me.

Sincerely,

Charles Durrett DN: CN = Charles Durrett. = US: CN = Charles Durrett. = US: CN = Charles Durrett. C = US: O = Maxim Technologies, Inc. Date: 2005.11.18 11:15:53 - 06:00'

MAXIM Technologies Charles Durrett Senior Project Manager

Cc: Chris Williams, NMOCD District 1 Paul Evans, USBLM Mr. Neal Goates, ConocoPhillips

TABLES

Table I

ConocoPhillips Maljamar - MCA Flowlines 4A Header October 24-26, 2005

Field Data

	Composite Sample	Petroflag	Chlorides	VOC	Date of	Sample	Lab
Sampling Round	Location	(mg/kg)	(ppm)	(ppm)	Field Test	Time	Sample
	North Wall	409	390	21.7	10/24/2005	l:35	
	South Wall	350	470	17.3	н	1:42	
Sampling Round I I 2 3 Confirmation Confirmation Confirmation 5 6 Confirmation	East Wall	>5,000	290	110.1	12	1:50	
	West Wall	>5,000	180	126.4	"	2:00	
	North Wall	460	270	13.6	10/24/2005	2:10	
2	South Wall	353	320	21.8	11	2:21	
2	East Wall	>5,000	240	29.9	11	2:32	
	West Wall	496	110	47.7	H	2:40	
	North Wall	307	100	9,4	10/24/2005	4:11	
	South Wall	260	300	16.3	11	4:20	
5	East Wall	>5,000	220	100.1	н	4:29	
	West Wall	320	250	37.6	н	4:38	
Confirmation	South Wall	54	75	0	10/25/2005	2:45	SS
Confirmation	East Wall	56	50	0	11	2:30	SE
Confirmation	West Wall	221	80	7.4	n	3:00	SW
	Floor	1,530	100	9.8	10/25/2005	3:31	
F	Floor North	874	70	9.4	11	3:35	
5	Floor Middle	543	60	4.3	"	3:39	
	Floor South	167	80	3.6	11	3:43	
6	North Floor 8-12	>,5000	170	194.2	10/26/2005	2:45	
Confirmation	3-Point Floor	1,239	120	37.3	11	3:00	F-1
Confirmation	North Wall of Pit	I,529	450	14	10/26/2005	3:30	PS
Confirmation	Floor of Pit ~20' Deep	268	100	17.1	11	3:00	F-2
Confirmation	South Wall of Pit	3,200	370	56.4	11	3:30	PS
Confirmation	East Wall of Pit	348	490	2.3	11	3:30	PS
Confirmation	West Wall of Pit	184	670	0	"	3:30	PS
	Backfill Material #1	0	0	0,1	10/27/2005		
	Backfill Material #2	0	0	0.1	"		
	Backfill Material #3	0	0	0	"		
	Topsoil	0	0	0	н		

VOC - Volatile Organic Compounds

ppm - parts per million

mg/kg - milligrams per kilogram

Table 2 ConocoPhillips Maljamar - Flowline 87

October 25, 2005

Soil Analysis

				Param	eter (mg/kg)			
Sample	ТРН	ТРН	Total		Ethyl-		Total	Total	
Location	DRO	GRO	ТРН	Benzene	benzene	Toluene	Xylenes	BTEX	Chloride
SS	ND	ND	ND	ND	ND	ND	ND	ND	21.9
SE	ND	ND	ND	ND	ND	ND	ND	ND	12.7
SW	64	ND	64	ND	ND	ND	ND	ND	29
F-1	180	1,770	1,950	ND	ND	ND	ND	ND	48.3
F-2	ND	ND	ND	ND	ND	ND	ND	ND	101
PS	330	4,460	4,790	ND	ND	ND	ND	ND	1,100

ND Not Detected at or above the Laboratory detection level

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons

DRO - Diesel Range Organic Hydrocarbons

GRO - Gasoline Range Organic Hydrocarbons

FIGURE

ConocoPhillips MCA Flowline 87

Deep Excavation



View: North, after remediation



View: South, before remediation

MAXIM Technologies					
ConocoPhillips	MCA Unit				
Figure 1. Flowline 87 Area	Historic Release				

APPENDIX A

Communications

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Fw: CP Flowline 87 1R0452

Page I of I

This message has been scanned for known viruses.

 From:
 Goates, R. Neal

 To:
 Cwdurrett1@aol.com

 Subject:
 Fw: CP Flowline 87 1R0452

 Date:
 Fri, 12 Aug 2005 16:40:55 -0500

Sent from my BlackBerry Wireless Handheld

-----Original Message-----From: Price, Wayne, EMNRD <<u>wayne.price@state.nm.us</u>> To: Goates, R. Neal <<u>N.Goates@conocophillips.com</u>> CC: Sheeley, Paul, EMNRD <<u>paul.sheeley@state.nm.us</u>>; <u>cyancey@maximusa.com</u> <<u>cyancey@maximusa.com</u>> Sent: Fri Aug 12 16:42:56 2005 Subject: CP Flowline 87 1R0452

Dear Mr. Goates:

The NMOCD Environmental Bureau has reviewed the April 27, 2005 findings report and work plan for the CP Flowline 87. OCD hereby approves of the plan with the following conditions:

1. Please collect confirmation chloride samples of the excavated area and include in the final report.

2. Please provide two photos with the closure report. One showing the excavated area and the other photo showing the final graded site. Please include Lat/Long of the center of the site.

3. Please submit a final report within 30 days after closure.

Please be advised that NMOCD approval of this plan does not relieve (CP) of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (CP) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr. Oil Conservation Division 1220 S. Saint Francis Santa Fe, NM 87505 wayne.price@state.nm.us E-mail 505-476-3487 Tele: Fax: 505-4763462 This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail.

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APPENDIX B

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Laboratory Analysis

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ANALYTICAL REPORT

JOB NUMBER: 304990 Project ID: FLOW 87

Prepared For:

Maxim Technologies, Inc. 1703 West Industrial Midland, TX 79701

Attention: Charlie Durret

Date: 11/18/2005

Signature

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Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: skudchadkar@stl-inc.com

Date

Severn Trent Laboratories 6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

S .	AMPLE INFORMATION Date: 11/18/2005
Job Number.: 304990	Project Number 99003817
Customer: Maxim Technologies, Inc.	Customer Project ID: FLOW 87
Attn: Charlie Durret	Project Description: Conoco Phillips

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
304990-1	SS	Soil	10/25/2005	14:45	10/28/2005	08:50
304990-2	SE	Soil	10/25/2005	14:30	10/28/2005	08:50
304990-3	SW	Soil	10/25/2005	15:00	10/28/2005	08:50
304990-4	F-1	Soil	10/25/2005	15:30	10/28/2005	08:50
304990-5	F-2	Soil	10/26/2005	15:00	10/28/2005	08:50
304990-6	PS	Soil	10/26/2005	15:30	10/28/2005	08:50
						,
			3			

LABORATORY TEST RESULTS

Date: 11/18/2005

CUSTOMER: Maxim Technologies, Inc.

PROJECT: FLOW 87

ATTN: Charlie Durret

Customer Sample ID: SS Date Sampled.....: 10/25/2005 Time Sampled.....: 14:45 Sample Matrix....: Soil

Job Number: 304990

Laboratory Sample ID: 304990-1 Date Received.....: 10/28/2005 Time Received.....: 08:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 300.0	Chloride, Soil	21.9	1	4.0	mg/Kg	10/31/05	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	10/28/05	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				10/28/05	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	ND		8.3	mg/Kg	10/31/05	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg	10/29/05 10/29/05 10/29/05	y hor start star

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Date: 11/18/2005

CUSTOMER: Maxim Technologies, Inc.

PROJECT: FLOW 87

ATIN: Charlie Durret

Customer Sample ID: SE Date Sampled.....: 10/25/2005 Time Sampled.....: 14:30 Sample Matrix....: Soil Laboratory Sample ID: 304990-2 Date Received.....: 10/28/2005 Time Received......: 08:50

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TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 300.0	Chloride, Soil	12.7		4.0	mg/Kg	10/31/05	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	10/28/05	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				10/28/05	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	ND		8.3	mg/Kg	11/01/05	jps
<i>S</i> W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	10/29/05 10/29/05 10/29/05 10/29/05	ਮਰਮ ਮਰਮ ਮਰਮ

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Date: 11/18/2005

CUSTOMER: Maxim Technologies, Inc.

PROJECT: FLOW 87

ATIN: Charlie Durret

Customer Sample ID: SW Date Sampled.....: 10/25/2005 Time Sampled.....: 15:00 Sample Matrix....: Soil Laboratory Sample ID: 304990-3 Date Received.....: 10/28/2005 Time Received.....: 08:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 300.0	Chloride, Soil	29.0	 	4.0	mg/Kg	10/31/05	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	10/28/05	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				10/28/05	mra
<i>S</i> W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	64		8.3	mg/Kg	11/01/05	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	10/29/05 10/29/05 10/29/05 10/29/05	àgà Àgà Àgà

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Date: 11/18/2005

CUSTOMER: Maxim Technologies, Inc.

PROJECT: FLOW 87

ATIN: Charlie Durret

Laboratory Sample ID: 304990-4 Date Received.....: 10/28/2005 Time Received.....: 08:50

Customer Sample ID: F-1 Date Sampled.....: 10/25/2005 Time Sampled.....: 15:30 Sample Matrix....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 300.0	Chloride, Soil	48.3		4.0	mg/Kg	10/31/05	sur
<i>S</i> W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	1770		1000.00	ug/Kg	10/28/05	cad
<i>S</i> W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				10/28/05	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	180		42	mg/Kg	11/01/05	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg	10/29/05 10/29/05 10/29/05	y dy y dy y dy y dy

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Date: 11/18/2005

CUSTOMER: Maxim Technologies, Inc.

PROJECT: FLOW 87

ATIN: Charlie Durret

Customer Sample ID: F-2 Date Sampled.....: 10/26/2005 Time Sampled.....: 15:00 Sample Matrix....: Soil

Job Number: 304990

Laboratory Sample ID: 304990-5 Date Received.....: 10/28/2005 Time Received.....: 08:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
EPA 300.0	Chloride, Soil	101		40	mg/Kg	10/31/05	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	10/28/05	cad
<i>S</i> W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				10/28/05	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	ND		8.3	mg/Kg	11/01/05	jps
<i>S</i> W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5.5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	10/29/05 10/29/05 10/29/05 10/29/05	ydy ydy

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Date: 11/18/2005

CUSTOMER: Maxim Technologies, Inc.

PROJECT: FLOW 87

ATIN: Charlie Durret

Customer Sample ID: PS Date Sampled.....: 10/26/2005 Time Sampled.....: 15:30 Sample Matrix....: Soil Laboratory Sample ID: 304990-6 Date Received.....: 10/28/2005 Time Received.....: 08:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 300.0	Chloride, Soil	1100		40	mg/Kg	10/31/05	sur
<i>S</i> W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	4460		1000.00	ug/Kg	10/28/05	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				10/28/05	mra
<i>S</i> W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	330		83	mg/Kg	11/01/05	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	10/29/05 10/29/05 10/29/05	ਮਰੂਨ ਮਰੂਨ ਮਰੂਨ

* In Description = Dry Wgt.

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QUALITY CONTROL RESULTS

Report Date.: 11/18/2005

CUSTOMER: Maxim Technologies, Inc.

Job Number.: 304990

PROJECT: FLOW 87

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ATIN: Charlie Durret

Test Method: EPA 300.0 Method Description.: Ion Chromatography Analysis Parameter: Chloride					Units Batch(s)	: 141491	Analyst sur Test Code.: CHL				
QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F	Date	Time
ICV ICE	7	WCS36937	21.469 0.0512		20.00		107.3	90.0-110.	_	10/31/2005 10/31/2005	1301 1316
ΜB	14149121		0.0468							10/31/2005	1332
LCS	3 14149121	WCS36937	21.441		20.00		107.2	90.0-110.		10/31/2005	1348
DU	304710-1		24.812			25.280	1.9	20		10/31/2005	1419
MS	304710-1	WCS36824	33.567		10.000000	25.280	82.9	90-110	А	10/31/2005	1435
pu	304879-1		16.700			16.563	0.8	20		10/31/2005	1506
MS	304879-1	WCS36824	26.467		10.000000	16.563	99.0	90-110		10/31/2005	1521
CCI	7	WCS36937	21.248		20.00		106.2	90.0-110.		10/31/2005	1608
CCE	3		0							10/31/2005	1624
рU	304870-10		8.2840			8.2769	0.1	20		10/31/2005	1655
MS	304870-10	WCS36824	18.546		10.000000	8.2769	102.7	90-110		10/31/2005	1710
DU	305052-4		9.2287			9.2081	0.2	20		10/31/2005	1844
MS	305052-4	WCS36824	19.476		10.000000	9.2081	102.7	90-110		10/31/2005	1859
CCV	7	WCS36937	21.331		20.00		106.7	90.0-110.		10/31/2005	1915
CCE	3		0.0491							10/31/2005	1931
MB	14149121		0.0475							10/31/2005	1946
LCS	3 14149121	WCS36937	21.242		20.00		106.2	90.0-110.		10/31/2005	2002
DU	304811-1		29.553			29.683	0.4	20		10/31/2005	2048
MS	304811-1	WCS36824	37.788		10,000000	29,683	81.0	90-110	А	10/31/2005	2104
CCV	7	WCS36937	21.236		20.00		106.2	90.0-110.		10/31/2005	2253
CCE	3		0.0466							10/31/2005	2309
MB	14149121		0.0500							10/31/2005	2324
1.09	141491-+21	WC536937	21.376		20.00		106.9	90.0-110.		10/31/2005	2340
DU	304690-2		21.812			21.866	0.2	20		11/01/2005	0058
MS	304690-2	WCS36824	30.588		10.00000	21.866	87.2	90-110	А	11/01/2005	0113
in	7	WCS36937	21.568		20.00	21.000	107.8	90 0-110		11/01/2005	0200
CCE	3		0.0475							11/01/2005	0216

Page 8 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 304990	QUALITY	CONTRO	LR	ESULT	S	Report Date.: 11/18/2005				
CUSTOMER: M	axim Technologies, Inc.	PROJEX	CT: FLOW 87				ATIN:	Charlie Durr	ret		
QC Type	Description		Reag. Code	e	Lab ID Dilution Factor					Time	
Test Method Method Desc	: SW-846 8015B ription.: Total Volatile Pet:	roleum Hydrocarb	Units ons Batch(s) :	: ug, 141431	/L		Analys	st: cad		
LCS	Laboratory Control Sample	·····	BXS102705H		141431-1				10/28/2005	1123	
Para	meter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limit.	s F	
IVPH as GRO, :	Soil	236.154		2	250.000000			94.5	49-1	.51	
MB	Method Blank				141431-1				10/28/2005	1149	
Para	meter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limit	s F	
IVPH as GRO,	Soil	ND									
MS	Matrix Spike		BX052505A		304990-3				10/28/2005	2120	
Para	meter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limit	s F	
IVPH as GRO,	Soil	163.066		2	250.000000	N	D	65.2	50.0-1	50.0	
MSD	Matrix Spike Duplicate		BX052505A		304990-3				10/28/2005	2145	
Para	meter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limit.	s F	
IVPH as GRO,	Soil	196.544	163.066		250.000000	N	D	78.6 18.6	50-1 20	.50	
Test Method Method Desc	: SW-846 8015B ription.: Total Extractable :	Petroleum Hydroca	Units arbons Batch(s) :	: mg, 141843	/L		Analys	st: jps		
LCS	Laboratory Control Sample		GC092805		141435				10/31/2005	5 2301	
Para	meter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	.t * Limit	s F	
TEPH - as Die	sel, Soil	981.06		1	000.000000			98.1	70-1	.30	
MB	Method Blank	<u> </u>	GC101405		141435				11/01/2005	5 2218	
Para	Meter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limit	s F	

TEPH - as Diesel, Soil

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Page 9 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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	Job Number.: 304990	QUALITY	CONTRO	L R	ESULT	S	Report	Date.: 11/1	18/2005
CUSTOMER: N	Maxim Technologies, Inc.	PROJE	XCT: FLOW 87		in		ATIN:		
QC Type	Description		Reag. Cod	le	Lab	ID	Dilut	ion Factor	Date Time
MS	Matrix Spike	<u>,</u>	GC092705		304990-5				11/01/2005 0443
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limits F
EPH - as Die	esel, Soil	864.22		10	000.00000	N	D	86	70-130
MSD	Matrix Spike Duplicate		GC092705		304990-5	. ~			11/01/2005 0526
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limits F
TEPH - as Die	esel, Soil	875.24	864.22	10	000.000000	N	D	88 1.3	70-130 30.0
Test Method Method Desc	d: SW-846 8260B cription.: Volatile Organics		Units Batch(s		: ug 141411	/L		Analys	st: ydy
LCS	Laboratory Control Sample		VS101805E						10/29/2005 1249
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limits F
Benzene, Soil Ethylbenzene, Toluene, Soil Xylenes (tota	, Soil L al), Soil	50.0864 53.4371 51.9833 157.991			50.00 50.00 50.00 150.0	N N N N		100.2 106.9 104.0 105.3	68-121 66-130 66-127 37-160
MB	Method Blank		VS101805C						10/29/2005 1340
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limits F
Benzene, Soil Ethylbenzene, Foluene, Soil Kylenes (tota	Soil In Soil	ND ND ND ND							<u> </u>
MS	Matrix Spike		VS101805E		304588-9			· · ·	10/29/2005 1433
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits F
Benzene, Soil Ethylbenzene, Toluene, Soil Kylenes (tota	Soil Ni), Soil	52.7336 60.3393 45.7303 157.836			50.00 50.00 50.00 150.0	1	9.30127 3.1645 1.08870 2.5877	87 94 89 90	65-135 60-140 64-135 60-140
MSD	Matrix Spike Duplicate		VS101805E		304588-9				10/29/2005 1459
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits F
Benzene, Soil		54.3042	52.7336		50.00		9.30127	90 2 9	65-135
thylbenzene,	Soil	57.1140	60.3393		50.00	1	3.1645	88	60-140
Toluene, Soil		41.5610	45.7303		50.00		1.08870	5.5 81 9.6	64-135 30.0

Page 10 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 304990	QUALITY	CONTRO	L RES	SULT	S Repoi	Report Date.: 11/18/2005				
CUSTOMER:	Maxim Technologies, Inc.	PROJI	ECT: FLOW 87			ATIN	:				
QC Type	Description	· · · · · · · · · · · · · · · · · · ·	Reag. Cod	e	Lab ID		ution Factor	Date		Time	
MSD	Matrix Spike Duplicate		VS101805E	30	04588-9			10/2	9/2005	1459	
Par	Parameter/Test Description		QC Result QC Result True V		alue	Orig. Value	Calc. Resu	lt *	Limit	s F	
Xylenes (total), Soil		146.793	157.836	150.0		22.587	22.5877 83 7.3		60-140 30.0		

Page 11 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SURROGATE RECOVERIES REPORT

Report Date.: 11/18/2005

Job Number.: 304990

CUSIOMER	t: Maxim	Technologies, Inc.	PROJECT: FLOW 87	· · · ·	ATIN: Charlie Durret
Me Ba	thod	: Total Extractable : 141843	Petroleum Hydrocarbons Meth Test	od Code: 8015 Matrix: Soil	5D Prep Batch: 141435 l Equipment Code: EXTGC01
Lab ID	Ľ	NT Sample ID	Date	OTERPH	
304990-	1	SS	10/31/2005	94	
304990-	2	SE	11/01/2005	96	
304990-	3	SW	11/01/2005	84	
304990-	4	F-1	11/01/2005	82	
304990-	5	F-2	11/01/2005	85	
304990-	5 MS	F-2	11/01/2005	80	
304990-	5 MSD	F-2	11/01/2005	84	
304990-	6	PS	11/01/2005	82	
1414352	1 LCS		10/31/2005	97	
1414352	1 MB		11/01/2005	100	
Test	Test D	Description	Limits		
OTERPH	o-Terp	bhenyl	60 - 140		

SURROGATE RECOVERIES REPORT

Report Date.: 11/18/2005

Job Number.: 304990

CUSTOMER: 483648

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PROJECT: FLOW 87

ATTN: Charlie Durret

M B	ethod atch(s)	••••	: Total Volatile Petrole : 141431	eum Hydrocarbons	Method Code: 8015G Test Matrix: Soil			Prep Batch: Equipment Code: BTEX07
Lab ID		DT	Sample ID		Date	ATFT	BFB	
141431- 141431- 304990- 304990- 304990- 304990- 304990- 304990- 304990- 304990-	1 LCS 1 MB 1 2 3 MS 3 MS 3 MSD 4 5 6		SS SE SW SW F-1 F-2 PS		10/28/2005 10/28/2005 10/28/2005 10/28/2005 10/28/2005 10/28/2005 10/28/2005 10/28/2005 10/28/2005	98.6 99.7 106.0 109.2 103.9 100.0 99.4 106.9 103.0 105.9	97.7 102.4 93.9 96.6 95.5 102.6 97.9 107.3 91.1 81.0	
Test	Test Description Limits							
ATFT BFB	a,a, BFB	a-Tr (Sur	rifluorotoluene rrogate)	50 - 150 50 - 150)			

SURROGATE RECOVERIES REPORT

Report Date.: 11/18/2005

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COSTOMER:	403040	

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Job Number.: 304990

PROJECT: FLOW 87

ATIN: Charlie Durret

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Method. Batch(s	· · · · ·	: Volatile Organics : 141411		Metho Test	d Code Matrix	.: 8260 .: Soil		Prep Batch Equipment Cod	.: e: GCMSVOA03
Lab ID	DT	Sample ID		Date	12DCED	BRFLBE	DBRFLM	TOLD8	
14141121 LCS				10/29/2005	80.5	89.8	92.0	99.3	
14141121 MB			:	10/29/2005	85.9	82.0	87.7	91.1	
304588- 9 MS		SW614-1 0"-15"	:	10/29/2005	80.0	89.4	89.3	96.1	
304588- 9 MSD		SW614-1 0"-15"	-	10/29/2005	84.6	94.9	96.1	101.4	
304990- 1		SS		10/29/2005	77.1	84.3	87.5	92.1	
304990- 2		SE		10/29/2005	76.2	80.3	85.5	92.5	
304990- 3		SW		10/29/2005	82.2	84.1	92.6	93.8	
304990- 4		F-1	:	10/29/2005	75.0	84.6	84.0	90.0	
304990- 5		F-2		10/29/2005	75.5	82.6	84.6	90.9	
304990- 6		PS	:	10/29/2005	80.3	89.0	86.8	93.3	
Test Tes	: Des	scription	Limits						
12DCED 1,2	-Dich	lloroethane-d4	61 - 130	-					
BRFLBE 4-B:	ramof	luorobenzene	57 - 140						
DBRFIM Dib	romof	luoromethane	68 - 130						
TOLD8 Toly	lene-	-d8	50 - 130						

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/18/2005

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
- 4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result.
- m-Cresol and p-Cresol co-elute. The result of the two is reported as either m&p-cresol or as p-cresol.
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
 Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.

Explanation of Qualifiers:

- U This qualifier indicates that the analyte was analyzed but not detected.
- J (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- B (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

- A Matrix interference present in sample.
- a MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
- b Target analyte was found in the method blank.
- M QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were observed above the RL in the associated samples.
- G Marginal outlier within 1% of acceptance criteria.
- r RPD value is outside method acceptance criteria.
- C Poor RPD values observed due to the non-homogenous nature of the sample.
- 0 Sample required dilution due to matrix interference.
- D Sample reported from a dilution.
- d Spike and/or surrogate diluted.
- P The recovery of this analyte is outside default QC limits. The data is accepted and will be used to calculate in-house statistical limits.
- E The reported concentration exceeds the instrument calibration.
- F The analyte is outside QC limits. The sample data is accepted since this analyte is not reported in associated samples.
- H Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q See the subcontract final report for qualifier explanation.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES.

Report Date: 11/18/2005

 W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample. K - High recovery will not affect the quality of reported results. Z - See case narrative.
Explanation of Organic QC Outliers:
 e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination. S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference. T - Sample analysis yielded poor surrogate recovery. R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B. I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported. X - Gaseous compound. In-house QC limits are advisory. Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory. f - Surrogate not associated with reported analytes.
Explanation of Inorganic QC Outliers:
 Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank. V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria. e - Serial dilution failed due to matrix interference. g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995. s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed. l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed. N - Spiked sample recovery is not within control limits. n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995. * - Duplicate analysis is not within control limits.
Abbreviations:
Batch- Designation given to identify a specific extraction, digestion, preparation, or analysis set.CCV- Continuing Calibration VerificationCRA- Low level standard check - GFAA, MercuryCRI- Low level standard check - ICPDil Fac- Dilution Factor - Secondary dilution analysisDLFac- Detection Limit FactorDU- DuplicateEB- Extraction Blank (TCLP, SPLP, etc.)ICAL- Initial Calibration BlankICV- Initial Calibration BlankICV- Initial Calibration VerificationISA- Interference Check Sample A - ICPISB- Interference Check Sample B - ICPICD- Laboratory Control DuplicateICS- Laboratory Control SampleMB- Method Blank

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/18/2005

- Method Duplicate MD MDL - Method Detection Limit MOL - Method Quantitation Limit (TRRP) MS - Matrix Spike - Matrix Spike Duplicate MSD ND - Not Detected PB - Preparation Blank PREPF - Preparation Factor RI. - Reporting Limit - Relative Percent Difference RPD RRF - Relative Response Factor RT- Retention Time SQL - Sample Quantitation Limit (TRRP) TIC - Tentatively Identified Compound Method References: EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983. (1)
- (2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May
- 1994.
- (3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July
 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
- (4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
- (5) HACH Water Analysis Handbook 3rd Edition (1997).
- (6)Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
- Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, (7) January 1997.
- (8) ASTM Annual Book of Methods (Various Years)
- (9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

LABORATORY CHRONICLE

Date: 11/18/2005

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CUSTOMER: Maxim T	echnologies, Inc.	PROJECT:	FLOW 8	7			ATTN: Charlie I	Durret	a sha a sa biya sa
Lab TD: 304990-1	Client ID: SS		Date Re	condi 10/	28/2005	Samole	Date: 10/25/20	005	
METHOD	DESCRIPTION		RINH	BATTTH#	PREP BT	#(S)	DATE/TIME A	NALVZED	NOTIFICA
CW-946 3550D	Extraction (IIItrasonic) DBO		1	1/1/35	ITEL DI	π (ω)	10/29/2005	1400	DIDUTION
EDA 300 0	Ton Chromatography Analysis		1	141491			10/31/2005	2120	
CW. 946 9015D	Total Extractable Detroleum Wydrocart		1	1/19/3	141425		10/31/2005	2220	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons		1	1/1/21	747422		10/29/2005	1554	1 0000
SW-846 8260B	Volatile Organics	>	1	141411			10/28/2005	2038	1 00000
								2050	1.00000
Lab ID: 304990-2	Client ID: SE		Date Re	cvd: 10/	28/2005	Sample	Date: 10/25/20	005	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BI	#(S)	DATE/TIME A	NALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	141435			10/28/2005	1400	
EPA 300.0	Ion Chromatography Analysis		1	141491			10/31/2005	2135	
SW-846 8015B	Total Extractable Petroleum Hydrocart	xxns	1	141843	141435		11/01/2005	0152	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	5	1	141431			10/28/2005	1621	1.0000
SW-846 8260B	Volatile Organics		1	141411			10/29/2005	2104	1.00000
Lab ID: 304990-3	Client ID: SW		Date Re	cvd: 10/	28/2005	Sample	Date: 10/25/20	005	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	141435			10/28/2005	1400	
EPA 300.0	Ion Chromatography Analysis		1	141491			10/31/2005	2151	
SW-846 8015B	Total Extractable Petroleum Hydrocark	ons	1	141843	141435		11/01/2005	0235	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	5	1	141431			10/28/2005	1938	1.0000
SW-846 8260B	Volatile Organics		1	141411			10/29/2005	2130	1.00000
Lab ID: 304990-4	Client ID: F-1		Date Re	cvd: 10/	/28/2005	Sample	Date: 10/25/20	005	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	141435			10/28/2005	1400	
EPA 300.0	Ion Chromatography Analysis		1	141491			10/31/2005	2206	
SW-846 8015B	Total Extractable Petroleum Hydrocart	oons	1	141843	141435		11/01/2005	1244	5
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	3	1	141431			10/28/2005	2003	1.0000
SW-846 8260B	Volatile Organics		ı	141411			10/29/2005	2156	1.00000
1.ab TD: 304990-5	Client ID: F-2		Date Re	നംപം 10/	28/2005	Samole	Date: 10/26/2	005	
METTIN	DESCRIPTION		RIM#	BATTOHH	DRED BT	# (S)	IA TELET	MALVZED	NOTITI
CTAL DAG 2550D	Extraction (IIItrasonic) DBO		1	1/1/25	11014 01	π (Ο)	10/28/2005	1400	DIHOITON
5W-646 5550B	Ton Chromatography Analygig		1	141401			10/31/2005	2222	10
EFA 300.0	Total Extractable Detroleum Hidrogark	20ng	1	141042	141425		11/01/2005	0400	10
SW-846 8015B	Total Molatila Detroloum Undrogarbone		1	141401	141422		10/20/2005	2020	1 0000
SM-040 0013D	Volatile Organice	2	1	141431			10/20/2005	2029	1 00000
SW-040 02005	voracite organics		1	141411			10/29/2005	2223	1.00000
Lab ID: 304990-6	Client ID: PS		Date Re	cvd: 10/	/28/2005	Sample	Date: 10/26/20	005	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	141435			10/28/2005	1400	
EPA 300.0	Ion Chromatography Analysis		1	141491			10/31/2005	2237	10
SW-846 8015B	Total Extractable Petroleum Hydrocark	xons	1	141843	141435		11/01/2005	1328	10
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	3	1	141431			10/28/2005	2054	1.0000
SW-846 8260B	Volatile Organics		1	141411			10/29/2005	2249	1.00000