

Hobbs

August 27, 2004

Mr. Paul Sheeley Oil Conservation Division – District I New Mexico Energy, Minerals and Natural Resources Department 1625 North French Drive Hobbs, New Mexico 88240

#### Re: Pipeline Spill Remediation Report, Dynegy Midstream Services. L.P., Unit Letter J (NE/4, SW/4), Section 31, Township 23 South, Range 37 East, Lea County, New Mexico (Kelly Myers Deep Wells Lease)

Dear Mr. Sheeley:

Dynegy Midstream Services, L. P. (Dynegy) has retained Larson and Associates, Inc. (LA) to remediate impacts to soil from a natural gas liquids (i.e., natural gas condensate) spill located in the northeast quarter (NE/4) of the southwest quarter (SW/4), Section 31, Township 23 South, Range 37 East, Lea County, New Mexico (Site #45). The spill occurred on June 4, 2003 along a section of pipeline trending south to north, and a Release Notification and Corrective Action form (Form C-141) was submitted to the State of New Mexico Oil Conservation Division (NMOCD). Figure 1 presents a Site location and topographic map. Appendix A provides a copy of the Form C-141.

#### **Current Investigation**

On June 4, 2003, Dynegy excavated all impacted soil within the vicinity of the pipeline leak, north and south of the lease road. On June 6, 2003, LA personnel collected soil samples at a depth of nine (9) feet below ground surface (bgs) on the north side of the road, and a depth of fifteen (15) feet bgs on the south side of the road for laboratory analysis. Samples were also collected from the east and west walls of the excavation south of the road, at a depth of twelve (12) feet bgs. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas I, Ltd. (ELOT), located in Odessa, Texas. Soil samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method SW-846-8015, including gasoline range organics (GRO) and diesel range organics (DRO), benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) by EPA method SW-846-8021B, and for chloride by EPA method SW-846-9253.

A duplicate of each sample was collected for headspace analysis. The headspace jars were filled approximately <sup>3</sup>/<sub>4</sub> full, and a layer of aluminum foil was placed over the opening of the jars before replacing the cap. The headspace samples were set aside and allowed to warm up to ambient temperature before a RAE Instruments, Model 2000 photoionization detector (PID) was used to measure the concentration of organic vapors in the sample headspace. The PID probe was inserted into the headspace of the sample jars (through the aluminum foil). The concentration of organic vapors was displayed by the instrument in parts per million (ppm) and recorded in a bound field

Dynesy - 190963 facility - FPACO 611829448

incident - pACOG1829709 application - pACOG11829927

507 North Marienfeld, Suite 202 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456

Mr. Paul Sheeley August 27, 2004 Page 2

notebook. The PID was calibrated to 100.1 ppm isobutylene prior to obtaining headspace readings. Table 1 presents a summary of the laboratory analyses and PID readings of soil samples. Figure 2 shows the sample locations and TPH concentrations. Appendix B presents the laboratory data and chain-of-custody documentation. Appendix C presents photographs.

Based on published literature (1961) and well records of the New Mexico State Engineer (NMSE), groundwater occurs at approximately 104 feet bgs. A domestic water well is located approximately 1000 feet east of the Site. The NMOCD has established RRALs for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). The following RRALs have been assigned, based on NMOCD criteria:

Benzene	10 mg/kg
Total BTEX	50 mg/kg
ТРН	100 mg/kg

Referring to Table 1, the soil sample from the north side of the road (SS-3), at a depth of nine (9) feet bgs, showed concentrations of benzene (0.068 mg/kg) and BTEX (0.164 mg/kg) below the RRAL, and the TPH concentration is below the test method detection limit. Soil samples collected from the bottom (SS-4 at 15 feet bgs) and sides (SS-5 at 12 feet bgs, and SS-6 at 12 feet bgs) of the excavation on the south side of the road showed concentrations of TPH that exceeded the RRAL. Concentrations of benzene (16.5 mg/kg) and BTEX (317.7 mg/kg) exceeded the RRAL in the sample from the south side of the road on the west wall (SS-5). The sample collected from the north side of the road, at a depth of nine (9) feet bgs (SS-3), showed a chloride concentration of 70.9 mg/kg. The samples collected from the south side of the road (SS-4, 15' bgs; SS-5, 12' bgs, and SS-6, 12' bgs) showed chloride concentrations of 106 mg/kg, 425 mg/kg, and 106 mg/kg, respectively. The NMOCD does not have a documented RRAL for chloride in soil, although it has applied the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 250 milligrams per liter (mg/L) as an action level for soil.

From June 10 through June 11, 2003, excavation of impacted soil, on the south side of the road, occurred at Site #45. On June 12, 2003, soil samples were collected from the sides and bottom of the excavation, and submitted to ELOT for laboratory analysis. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT. Duplicate samples were collected for headspace analysis, as described above. Soil samples were analyzed for TPH and chlorides. Table 1 presents a summary of the laboratory analysis of soil from the excavation, and PID readings. Figure 2 shows the sample locations and TPH concentrations. Appendix B presents laboratory data and chain-of-custody documentation.

Referring to Table 1, concentrations of TPH remained above the RRAL in samples collected from the west wall, at a depth of 24 feet bgs (292.7 mg/kg), the bottom (east of the pipeline), at a depth of 28 feet bgs (441.4 mg/kg), and the bottom (west of the pipeline), at a depth of 30 feet bgs (1,421 mg/kg). All soil samples showed chloride concentrations below 250 mg/kg.

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Excavation continued at Site #45 until samples were collected from the bottom of the excavation on July 9, 2003, at a depth of 32 feet bgs. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT. Soil samples were analyzed for BTEX and TPH. Table 1 presents a summary of the laboratory analyses of soil from the excavation. Figure 2 shows the sample locations and laboratory results. Appendix B presents laboratory data and chain-of-custody documentation. Appendix C presents photographs.

Referring to Table 1, concentrations of benzene and BTEX from samples SS-11 and SS-12, were below the test method detection limit. Concentrations of TPH were below the test method detection limit in sample SS-11 and below the RRAL in sample SS-12 (68.3 mg/kg). All soil removed from the excavation, prior to July 9, 2003, was taken to an NMOCD approved landfarm.

Excavation continued along the west wall, at Site #45, until a sample was collected on January 29, 2004 (SS-A), at a depth of 24 feet bgs. Soil from the excavation was placed adjacent to the hole, and blended to reduce the TPH concentrations below the RRAL. A grab sample was obtained from the blended soil, and is presented as "Spoil" in Table 1. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT. Soil samples were analyzed for TPH and chloride. Duplicate samples were collected for headspace analysis, as described above. No BTEX analysis was conducted, as the PID readings were below 100 ppm. The NMOCD allows a PID of less than 100 ppm to substitute for a BTEX laboratory analysis. Table 1 presents a summary of the laboratory analyses. Figure 2 shows the sample location and laboratory results. Appendix B presents laboratory data and chain-of-custody documentation.

Referring to Table 1, concentrations of TPH in sample SS-A (<20 mg/kg) and Spoil (34.04 mg/kg), were below the RRAL. Concentrations of chloride were below 250 mg/kg. As all final TPH and BTEX concentrations were below the RRAL, the excavations north and south of the road were filled with clean soil. Dynegy requests that Site #45 be closed. Please contact Mr. Cal Wrangham with Dynegy at (432) 688-0555 or myself at (432) 687-0901 if you have questions. We may also be contacted by e-mail at <u>Cal.Wrangham@Dynegy.com</u>, or <u>Cindy@Laenvironmental.com</u>.

Sincerely, Larson & Associates, Inc.

K. Crain indy

Cindy K. Crain, PG Project Manager

CC: Mr. Cal Wrangham, Dynegy Mr. Dave Harris, Dynegy Mr. Roger Holland, Dynegy Mr. William Olson, NMOCD, Santa Fe



Habbs

August 27, 2004

Mr. Paul Sheeley New Mexico Oil Conservation Division – District 1 1625 North French Drive Hobbs, New Mexico 88240

#### Re: Pipeline Spill Remediation Report, Dynegy Midstream Services, L. P., Unit Letter J (NE/4, SW/4), Section 31, Township 23 South, Range 37 East, Lea County, New Mexico

Dear Mr. Sheeley:

Please find enclosed a copy of the above-referenced report. The report is submitted on behalf of Dynegy Midstream Services, L. P., and presents the results of a pipeline spill investigation conducted by Larson and Associates, Inc. Please call Cal Wrangham at (432) 688-0542 or myself at (432) 687-0901 if you have questions.

Sincerely, Larson and Associates, Inc.

inty K. Crain

Cindy K. Crain, CPG, CGWP Project Manager

cc: Cal Wrangham - Dynegy Dave Harris – Dynegy Roger Holland – Dynegy William Olson, NMOCD, Santa Fe

LAAK JUNE 23,03

# TABLE

Summary of Headspace and Laboratory Analyses of Soil Samples NW/4, SE/4, Section 31, Township 23 South, Range 37 East Dynegy Midstream Services, L.P., Spill Site #45 Table 1:

>1999 >1999 (mqq) 149.0 >1999 469.0 121.0 239.0 157.0 82.0 49.0 17.2 Dd 37.2 Page 1 of 1 Chloride (mg/kg) 70.9 70.9 106 53.2 425 248 124 149 106 170 ł l C6-C35 (mg/kg) <20.0 16,790 1,916 <20.0 176.7 292.7 441.4 <20.0 34.04 HGT 1,421 <sup>20</sup> 68.3 >C12-C35 (mg/kg) <10.0 <10.0 8,970 1,510 25.60 DRO <10.0 1,280 159 68.3 354 10 v 281 C6-C12 (mg/kg) <10.0 <10.0 <10.0 7,820 GRO 8.44 17.7 87.4 406 11.7 01v ×10 141 (mg/kg) <0.125 <0.125 0.164 BTEX 0.207 317.7 2.414 Total ſ ſ ł l I Benzene (mg/kg) <0.025 <0.025 <0.025 <0.025 0.068 16.5 I ł Į ł (Feet BGS) Sample Depth 15 30 28 24 30 28 12 5 24 32 32 24 റ South side; west bottom South side; east bottom South side; west wall South side, west wall South side; east wall South side, east wall South side; west wall South side bottom South side; bottom South side; bottom Sample Location North side bottom Lea County, New Mexico Sample Number SS-10 SS-11 SS-12 SS-5 SS-9 SS-3 SS-4 SS-6 SS-7 SS-8 SS-A Spoil 06/06/03 06/06/03 06/06/03 06/12/03 01/29/04 06/12/03 06/12/03 06/06/03 06/12/03 02/09/03 01/29/04 Sample 20/60/20 Date

Notes: Analysis performed by Environmental Lab of Texas, I. Ltd., Odessa, Texas

Sample depth in feet below ground surface BGS:

Total petroleum hydrocarbons (Sum of DRO + GRO) TPH: *c*i

Milligrams per kilogram mg/kg: 1 က် 4

Below method detection limit ÿ

Photoionization detector Ö ы. С

Parts per million ppm: ώr.

No data available ï

## **FIGURES**

507 North Marienfeld, Suite 202 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456





### **APPENDIX B**

### LABORATORY DATA AND CHAIN-OF-CUSTODY DOCUMENTATION

# ANALYTICAL REPORT

## **Prepared for:**

JOHN STEWART LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

 Project:
 Dynegy/ #45

 PO#:
 G0306683

 Report Date:
 06/11/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685

MIDLAND, TX 79710 915-687-0456 Order#:G0306683Project:0-0100-45Project Name:Dynegy/ #45Location:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u> 0306683-01 <u>L</u>	<u>Sample :</u> SS-3 <u>ab Testing:</u> 8015M 8021B/5030 BTEX	<u>Matrix:</u> SOIL Rejected: No	Date / Time <u>Collected</u> 6/6/03 10:00 Tem	Date / Time <u>Received</u> 6/6/03 18:10 ap: 0.0 C	<u>Container</u> 4 oz glass	Preservative
0306683-02	Chloride SS-4	SOIL	6/6/03	6/6/03	4 oz glass	Ice
			14:45	18:10		
<u>L</u>	<u>ab Testing:</u> 8015M	Rejected: No	Теп	ир: 0.0 C		
	8021B/5030 BTEX					
	Chloride	<u></u>		<u>-</u>		
0306683-03	SS-5	SOIL	6/6/03	6/6/03	4 oz glass	Ice
			14:47	18:10		
<u>L</u>	<u>ab Testing:</u>	Rejected: No	Ten	<b>ıр:</b> 0.0 С		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0306683-04	SS-6	SOIL	6/6/03	6/6/03	4 oz glass	Ice
			14:49	18:10		
<u>L</u>	<u>ab Testing:</u>	Rejected: No	Ten	ıp: 0.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

JOHN STEWART	Order#:	G0306683
LARSON AND ASSOCIATES, INC.	Project:	0-0100-45
P.O. BOX 50685	Project Name:	Dynegy/ #45
MIDLAND, TX 79710	Location:	None Given

Lab ID:	
Sample ID:	

0306683-01 SS-3

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 6/10/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> WL	Method 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	100%	70	130	
1-Chlorooctadecane	70%	70	130	

		8021B	x/5030 BTE	X		
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0005773-02		6/9/03 10:15	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	0.068	0.0250
Toluene	0.053	0.0250
Ethylbenzene	< 0.0250	0.0250
p/m-Xylene	0.043	0.0250
o-Xylene	< 0.0250	0.0250

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	92%	80	120
Bromofluorobenzene	98%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

JOHN STEWART LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710				Order#: G0306683 Project: 0-0100-45 Project Name: Dynegy/ #45 Location: None Given			
Lab ID: Sample ID:	0306683-02 SS-4						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilutio <u>Factor</u>	<u>r Analyst</u>	Method
			6/10/03	1	1	WL	8015M
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		17.7		10.0	
		DRO, >C12-C35		159		10.0	
		TOTAL, C6-C35	5	177	r	10.0	
		Surrog	ates	% Recovered	QC Li	mits (%)	
		1-Chlorooc		93%	70	130	
		1-Chlorooc	tadecane	75%	70	130	
			8021E	8/5030 BTEX			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	<u>Analyzed</u>	Amount	Facto		Method
	0005773-02	2	6/9/03 10:37	1	25	RKT	8021B
		Parameter		Resul mg/kg		RL	
		Benzene		< 0.025		0.0250	
		Toluene		0.026		0.0250	
		Ethylbenzene		0.045		0.0250	
		p/m-Xylene		0.098		0.0250	
		o-Xylene		0.038		0.0250	
		Surrog	ates	% Recovered	QC Li	mits (%)	
		aaa-Toluer	ne	90%	80	120	
		Bromofluor	robenzene	111%	80	120	

JOHN STEWART	Order#:	G0306683
LARSON AND ASSOCIATES, INC.	Project:	0-0100-45
P.O. BOX 50685	<b>Project Name:</b>	Dynegy/ #45
MIDLAND, TX 79710	Location:	None Given

Lab ID:	
Sample ID:	

0306683-03 SS-5

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 6/10/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 5	<u>Analyst</u> WL	<u>Method</u> 8015M
[	Parameter		Resu	ılt	RL	

Parameter	Result mg/kg	RL
GRO, C6-C12	7820	50.0
DRO, >C12-C35	8970	50.0
TOTAL, C6-C35	16790	50.0

Surrogates	% Recovered	QC Limits (%	
1-Chlorooctane	25%	70	130
1-Chlorooctadecane	20%	70	130

8021B/5030 BTEX								
Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method		
0005773-02		6/9/03 10:59	1	100	RKT	8021B		

Parameter	Result mg/kg	RL	
Benzene	16.5	0.10	
Toluene	82.1	0.10	
Ethylbenzene	64.4	0.10	
p/m-Xylene	110	0.10	
o-Xylene	44.7	0.10	

Surrogates	% Recovered	QC Limits (%)		
aaa-Toluene	1200%	80 120		
Bromofluorobenzene	160%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

JOHN STEWART	Order#:	G0306683
LARSON AND ASSOCIATES, INC.	Project:	0-0100-45
P.O. BOX 50685	Project Name:	Dynegy/ #45
MIDLAND, TX 79710	Location:	None Given

Lab ID: Sample ID:

0306683-04 SS-6

8015M								
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 6/10/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> WL	Method 8015M		

Parameter	Result mg/kg	RL
GRO, C6-C12	406	10.0
DRO, >C12-C35	1,510	10.0
TOTAL, C6-C35	1,916	10.0

Surrogates	% Recovered	QC Limits (	
1-Chlorooctane	123%	70	130
1-Chlorooctadecane	104%	70	130

8021B/5030 BTEX							
Method	Date	Date A polygod	Sample	Dilution Factor	Analyst	Method	
Blank	Prepared	<u>Analyzed</u>	Amount	Factor	Analysi	MELHOU	
0005773-02		6/9/03	1	25	RKT	8021B	
		11:22					

Parameter	Result mg/kg	RL
Benzene	< 0.0250	0.0250
Toluene	0.110	0.0250
Ethylbenzene	0.471	0.0250
p/m-Xylene	1.27	0.0250
o-Xylene	0.563	0.0250

Surrogates	% Recovered	QC Limits (%)			
aaa-Toluene	98%	80	120		
Bromofluorobenzene	119%	80	120		

0	00	120			_			
%	80	120	0		- ľ			
Celey Jeann Sandi	d K. Tutt D. Keen e McMur a Biezug	de, Lab D e, Org. Te rrey, Inorg be, Lab Te .ab Tech.	ch. Dife . Tech. I	ctor	Hun	<u>U (</u> Date	(hzh	3

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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JOHN STEWA LARSON AND P.O. BOX 5068 MIDLAND, T	ASSOCIATES, INC. 85	Project: 0-0100-45 Project Name: Dynegy/#		G0306683 0-0100-45 Dynegy/ #45 None Given				
Lab ID: Sample ID:	0306683-01 SS-3		<u> </u>					
Test Paran Parameter	neters	<u>Result</u>	Units	Dilution Factor		Method	Date Analyzed	<u>Analyst</u>
Chloride		70.9	mg/kg	1	20	9253	6/9/03	SM
Lab ID: Sample ID:	0306683-02 SS-4							
Test Paran Parameter		<u>Result</u>	Units	Dilution <u>Factor</u>		Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		106	mg/kg	1	20	9253	6/9/03	SM
Lab ID: Sample ID:	0306683-03 SS-5							<u> </u>
Test Parat	meters			Dilution	1		Date	
Parameter Chloride		<u>Result</u> 425	<u>Units</u> mg/kg	<u>Factor</u> 1	<u>RL</u> 20	<u>Method</u> 9253	Analyzed 6/9/03	<u>Analyst</u> SM
Lab ID: Sample ID:	0306683-04 SS-6							
Test Paran Parameter	meters	Result	Units	Dilution Factor		Method	Date Analyzed	<u>Analyst</u>
Chloride		106	mg/kg	1	20	9253	6/9/03	SM
				Approva Raland K		Jurector, QA Off	lun Ol	liz/v-

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech Director Jeanne McMurrey, Inorg Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Page 1 of 1

#### 8015M

4.

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005785-02	·····		<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005785-03		952	1016	106.7%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005785-04		952	1035	108.7%	1.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005785-05		1000	1114	111.4%	

### 8021B/5030 BTEX

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005773-02			< 0.025		
Toluene-mg/kg		0005773-02			< 0.025		
Ethylbenzene-mg/kg		0005773-02			< 0.025		
p/m-Xylene-mg/kg		0005773-02			< 0.025		· • <del>-</del>
o-Xylene-mg/kg		0005773-02			< 0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306681-02	0	2.5	2.26	90.4%	
Toluene-mg/kg		0306681-02	0	2.5	2.23	89.2%	
Ethylbenzene-mg/kg	•	0306681-02	0	2.5	2.27	90.8%	
p/m-Xylene-mg/kg		0306681-02	0	5	4.72	94.4%	
o-Xylene-mg/kg		0306681-02	0	2.5	2.24	89.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306681-02	0	2.5	2.34	93.6%	3.5%
Toluene-mg/kg		0306681-02	0	2.5	2.28	91.2%	2.2%
Ethylbenzene-mg/kg	, ,	0306681-02	0	2.5	2.36	94.4%	3.9%
p/m-Xylene-mg/kg	<del></del>	0306681-02	0	5	5.08	101.6%	7.3%
o-Xylene-mg/kg		0306681-02	0	2.5	2.37	94.8%	5.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005773-05		0.1	.098	98.%	
Toluene-mg/kg		0005773-05		0.1	0.094	94.%	
Ethylbenzene-mg/kg	·	0005773-05		0.1	0.091	91.%	
p/m-Xylene-mg/kg		0005773-05		0.2	0.188	94.%	
o-Xylene-mg/kg		0005773-05	······	0.1	0.089	89.%	

### **Test Parameters**

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-01			<20		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-02	· · · · · · · · · · · · · · · · · · ·	5000	5140	102.8%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-03		5000	5052	101.%	1.7%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-04		5000	4786	95.7%	

# **CASE NARRATIVE** ENVIRONMENTAL LAB OF TEXAS

#### **Prepared for:**

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0306683

Project: Dynegy/#45

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-3	0306683-01	SOIL	06/06/2003	06/06/2003
SS-4	0306683-02	SOIL	06/06/2003	06/06/2003
SS-5	0306683-03	SOIL	06/06/2003	06/06/2003
SS-6	0306683-04	SOIL	06/06/2003	06/06/2003

Surrogate recoveries on BTEX are outside control limits due to matrix interference. (0306683-03)

Surrogate recoveries on 8015M TPH are outside of control limits due to dilution (G0306683-03).

Environmental Lab of Texas I, Ltd.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Date: 04/12

	ER CHAIN-OF-CUSTODY RECORD	A arson & Lax: 915-687-0456 Environmental Consultants 915-687-0901	arienfeld, Ste. 202	LAB. I.D. REMARKS NUMBER (I.E., FILTERED, UNPRESERVED, PRESERVED, UNPRESERVED, (LAB USE ONLY) GRAB COMPOSITE)	030668301	62	87	8					RECEIVED BY: (Signature) DATE:	SAMPLE SHIPPED BY: (Circle)	FEDEX BUS AIRBILL #: UAND DELINCEDED LIDS CITUED	WHITE - RECEIVING LAB	 <b> </b>	GOLD - QA/QC COORDINATOR	SAMPLE TYPE:
Cindy 432-556-8665	PARAMETERS/METHOD NUMBER	SAJUTAINERS SOLLS SOLLS	108) 00 100	942 ЭL ЭЦ Н/ Т- ИЛ У									RELINQUISHED BY: (Signature) DATE.	RECEIVED BY: (Signature) DATE:	TIME:		ture	DATE: 6/6/03 TIME: 1'810	LA CONTACT PERSON:
	CLIENT NAME: SITE MANAGER:	Ny Masy Solu Stower Have Or OLOG - 0100 # 45	PAGE OF LAB: PO #	AF RW SO SAMPLE IDENTIFICATION	1 00.01	55-	2:47 1 25-5	2:49 1 8-6	•				SAMPLED BY: (Signature) DATE: 6/6 RELINQUISH	DATE: 66	" / Merica I TIME 6.0	contrents 0.0°C	VING LABORATORY: ENVINONMENTAL Late of TX. EESS:	CITY: STATE: ZIP: CONTACT: PHONE: ZIP: ZIP: ZIP: ZIP: ZIP: ZIP: ZIP: ZIP	

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# ANALYTICAL REPORT

## **Prepared for:**

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Dynegy/Site #45PO#:G0306718

**Report Date:** 06/16/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0306718Project:0-0100-45Project Name:Dynegy/Site #45Location:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Time	Da	ate / Time		
<u>Lab ID:</u>	Sample :	<u>Matrix:</u>		Collected	_	Received_	Container	Preservativ
0306718-01	SS-7	SOIL		6/12/03		6/13/03	4 oz glass	Ice
				13:30		8:10		
	ib Testing:	Rejected:	No	Te	mp:	6.0 C		
	8015M							
	Chloride				<b>.</b>			
0306718-02	SS-8	SOIL		6/12/03		6/13/03	4 oz glass	Ice
				13:40		8:10		
<u>La</u>	<u>ıb Testing:</u>	Rejected:	No	Te	mp:	6.0 C		
	8015M							
	Chloride							
0306718-03	SS-9	SOIL		6/12/03		6/13/03	4 oz glass	Ice
				13:50		8:10		
<u>La</u>	<u>ıb Testing:</u>	Rejected:	No	Te	mp:	6.0 C		
	8015M							
	Chloride							
0306718-04	SS-10	SOIL		6/12/03		6/13/03	4 oz glass	Ice
				14:00		8:10		
<u>La</u>	<u>ab Testing:</u>	Rejected:	No	Te	mp:	6.0 C		
	8015M							
	Chloride							

CINDY CRAIN				Order#:	G030	6718	
ARSON AND A	SSOCIATES, INC.			Project:	0-010	0-45	
.O. BOX 50685	· · · , · · ·			Project Name	Dyne	gy/Site #45	
MIDLAND, TX	79710			Location:		Given	
Lab ID:	0306718-01						
Sample ID:	SS-7						
				8015M			
	Method	Date	Date	Sample	Dilution		
	<u>Blank</u>	Prepared	Analyzed	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	Method
			6/13/03	1	1	WL	8015M
		[ <del>************************************</del>					
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		11.7		10.0	
		DRO, >C12-C35	5	281		10.0	
		TOTAL, C6-C3		293		10.0	
		1		I	I		
		Surrog	ates	% Recovered	QC Lim	iits (%)	
		1-Chlorood	tane	103%	70	130	
		1-Chlorood	tadecane	125%	70	130	

Method	Date	Date	Sample	Dilution		
Blank	Prepared	<b>Analyzed</b>	Amount	<b>Factor</b>	Analyst	Method
		6/13/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	115%	70	130
1-Chlorooctadecane	128%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Name Location:	0-01 : Dyn	06718 00-45 egy/Site #45 e Given		
Lab ID:	0306718-03							
Sample ID:	SS-9							
	<b>14</b> 41 1	<b>D</b> (		8015M			•	
	Method <u>Blank</u>	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor		Method	
	Diank	repared	6/13/03	1	1	WL	8015M	
		Parameter		Result mg/kg		RL		
		GRO, C6-C12		87.4		10.0		
		DRO, >C12-C35		354		10.0		
		TOTAL, C6-C35		441		10.0		
		Surrogat	es	% Recovered	QC Lin	nits (%)		
		1-Chloroocta		124%	70	130		
		1-Chloroocta	Idecane	147%	70	130		
Lab ID: Sample ID:	0306718-04 SS-10							
				8015M				
	Method	Date	Date	Sample	Dilution			
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>		Method	
			6/13/03	1	1	WL	8015M	
		Parameter		Result mg/kg		RL		
		GRO, C6-C12		141		10.0		
		DRO, >C12-C35		1,280		10.0		
		TOTAL, C6-C35		1,421		10.0		

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	124%	70	130
1-Chlorooctadecane	171%	70	130

Kaland K Jul 6-16-03 Approval:

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

Date

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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CINDY CRAIN			Order#	ł:	G0306718			
	ASSOCIATES, INC.		Project	•	0-0100-45			
P.O. BOX 5068	,		•	Name:	Dynegy/Site	#45		
MIDLAND, TX			Locatio		None Given			
Lab ID:	0306718-01							
Sample ID:	SS-7							
Test Paran	neters			Dilutio	n		Date	
<b>Parameter</b>		Result	<u>Units</u>	Facto	<u>r RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		70.9	mg/kg	1	20	9253	6/13/03	SB
Lab ID:	0306718-02					<u></u>		
Sample ID:	SS-8							
Test Paran	neters			Dilutio	n		Date	
Parameter	······································	<u>Result</u>	<u>Units</u>	<u>Facto</u>	r <u>RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		248	mg/kg	1	20	9253	6/13/03	SB
Lab ID:	0306718-03							
Sample ID:	SS-9							
Test Paran	neters			Dilutio	m		Date	
Parameter		Result	<u>Units</u>	Facto		Method	Analyzed	<u>Analyst</u>
Chloride		124	mg/kg	1	20	9253	6/13/03	SB
Lab ID:	0306718-04							
Sample ID:	SS-10							
Test Paran	neters			Dilutic			Date	
Parameter		<u>Result</u>	Units	Facto		Method	Analyzed	<u>Analyst</u>
Chloride		53.2	mg/kg	1	20	9253	6/13/03	SB

Approval: RalandkJ Su 6-16-03 Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

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# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

#### 8015M

BLANK SOIL	LAB-ID #	Şample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-03	and the second	952	1053	110.6%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-04		952	1028	108.%	2.4%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-05		1000	1225	122.5%	

### **Test Parameters**

Order#: G0306718

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	,	0005817-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306716-01	0	500	496	99.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306716-01	0	500	514	102.8%	3.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005817-04		5000	4960	99.2%	

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# **CASE NARRATIVE** ENVIRONMENTAL LAB OF TEXAS

#### Prepared for:

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0306718 Project: Dynegy/Site #45

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-7	0306718-01	SOIL	06/12/2003	06/13/2003
SS-8	0306718-02	SOIL	06/12/2003	06/13/2003
SS-9	0306718-03	SOIL	06/12/2003	06/13/2003
SS-10	0306718-04	SOIL	06/12/2003	06/13/2003

Surrogate recoveries on 8015M TPH are outside control limits due to matrix interference (G0306718-03, 04)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Kaland K Julib) Environmental Lab of Texas I, Ltd.

Date: (0 - 16 - 0.3)

CLIENT NAME:	AME:				SITE MANAGER:	PA	PARAMETERS/METHOD NUMBER	THOD NUMBER	CHAIN-OF-	-OF-CUSTODY RECORD
2	Juregy				Lingy Lian				<pre></pre>	
PROJECT NO	100. 0-0100-45	17.	١٥		PROJECT NAME: <i> いかませら</i>	atainerg				Cliscin & SSOCIATES, Inc. Fax: 915-687-0456 Environmental Consultants 915-687-0901
PAGE	, a			LAB. PO #			2pt -		507 N. Marie	507 N. Marienfeld, Ste. 202 • Midland, TX 79701
2100	<sup>3</sup> WIL	MATER	105	OTHER	SAMPLE IDENTIFICATION	Hell	997		Lab. 1.D. NUMBER (Lab Use only)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB, COMPOSITE)
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4	רו		7		55-8	- -				
-	1350		7		55-9	-	7			
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									28	
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11. Par. 41									7	
. The other days	(	1								
SAMPU	SAMPLED BY . (Signature)	Januar 1	- 1	1	DATE: 4/2/03 RELINQUISHE	RELINQUISHED BY: (Signature)	Jre)	DATE: TIME:	RECEIVED BY: (Signature)	ature) DATE: TIME:
RELEMON	RELINQUISHED BY:	(Signature)	ty true)		16/13/03/RECEIVED	BY: <b>(Signafure</b> )	1.1.	nElla	AMPLE SHIPPED BY: (Circle)	Y: (Circle)
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COMMERTS.	KITC N		3				TURNAROUN	TURNAROUND TIME NEEDED	HAND DELIVERED	UPS OTHER:
									WHITE - RECEIVING LAB	- receiving lab
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# ANALYTICAL REPORT

## **Prepared for:**

JOHN STEWART LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

 Project:
 Dynegy/ Site #45

 PO#:
 G0306930

 Report Date:
 07/11/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.OrdeP.O. BOX 50685ProjeMIDLAND, TX 79710Proje915-687-0456Loca

Order#: G0306930 Project: Project Name: Dynegy/ Site #45 Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306930-01	SS-11	SOIL	7/9/03 13:05	7/9/03 17:03	4 oz glass	Ice
La	<u>b Testing:</u>	Rejected: No	Te	mp: 4.5 C		
 	8015M 8021B/5030 BTEX	· · · · · · · · · · · · · · · · · · ·				
0306930-02	SS-12	SOIL	7/9/03 13:10	7/9/03 17:03	4 oz glass	Ice
<u>La</u>	<u>b Testing:</u>	Rejected: No	Te	mp: 4.5 C		
	8015M 8021B/5030 BTEX					

JOHN STEWAR LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC.			Order#: Project: Project Nam Location:	G0306 e: Dyneg None (	gy/ Site #45	
Lab ID: Sample ID:	0306930-01 SS-11						
Sample 12.		D-4-		8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/10/03 12:16	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> RKT	Method 8015M
		Parameter		Resu mg/kg		RL	
		GRO, C6-C12		<10		10.0	
		DRO, >C12-C35		<10		10.0	
		TOTAL, C6-C35		<10		10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	117%	70	130
1-Chlorooctadecane	114%	70	130

		8021B	/5030 BTEZ	X		
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0006142-02		7/10/03 16:38	1	25	СК	8021B

Parameter	Result mg/kg	RL		
Benzene	<0.025	0.025		
Toluene	<0.025	0.025		
Ethylbenzene	<0.025	0.025		
p/m-Xylene	<0.025	0.025		
o-Xylene	<0.025	0.025		

Surrogates	% Recovered	QC Limits (%           80         120	
aaa-Toluene	103%		
Bromofluorobenzene	93%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

			ANALYT	ICAL RE	PORT			
JOHN STEWAR LARSON AND / P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC.			Order#: Project: Project Nam Location:	e: Dyn	)6930 egy/ Site #45 e Given		
Lab ID: Sample ID:	0306930-02 SS-12							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample Amount	Dilutior <u>Factor</u>	<u>Analyst</u>	Method	
			7/10/03 12:16	1	1	RKT	8015M	
		Parameter		Resu mg/kj		RL		
		GRO, C6-C12		<10		10.0		
		DRO, >C12-C35	;	68.3	;	10.0		
		TOTAL, C6-C3	5	68.3	i	10.0		
		Surrog	ates	% Recovered	QC Lin	nits (%)		
		1-Chlorooc		112%	70	130		
		1-Chlorooc	tadecane	107%	70	130		
			8021E	3/5030 BTEX	2			
	Method	Date	Date	Sample	Dilution			
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>	·
	0006142-02		7/10/03 17:26	1	25	СК	8021B	
		Parameter		Resu mg/k		RL		
		Benzene		<0.02		0.025		
		Toluene		<0.02		0.025		
		Ethylbenzene	<u></u>	<0.02	5	0.025		

Surrogates	% Recovered	QC Limits (%)		
aaa-Toluene	100%	80	120	
Bromofluorobenzene	87%	80	120	

< 0.025

< 0.025

Kalandki 7-11-03 Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

0.025

0.025

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

p/m-Xylene

o-Xylene

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

### 8015M

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006140-02	· · · · · · · · · · · · · · · · · · ·		<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006140-03		952	1,220	128.4%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
FOTAL, C6-C35-mg/kg	0006140-04		952	1,220	128.6%	0.2%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006140-05		1,000	1,090	109.4%	
# ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX

Order#: G0306930

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006142-02			<0.0250		
Toluene-mg/kg	······································	0006142-02			<0.0250		
Ethylbenzene-mg/kg		0006142-02			<0.0250		
p/m-Xylene-mg/kg		0006142-02			<0.0250		
o-Xylene-mg/kg		0006142-02			<0.0250		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306942-12	0	0.10	0.109	109.%	
Toluene-mg/kg		0306942-12	0	0.10	0.115	115.%	
Ethylbenzene-mg/kg		0306942-12	0	0.10	0.116	116.%	<u> </u>
p/m-Xylene-mg/kg		0306942-12	0	0.20	0.240	120.%	
o-Xylene-mg/kg		0306942-12	0	0.10	0.117	117.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306942-12	0	0.10	0.105	105.%	3.7%
Toluene-mg/kg		0306942-12	0	0.10	0.112	112.%	2.6%
Ethylbenzene-mg/kg		0306942-12	0	0.10	0.117	117.%	0.9%
p/m-Xylene-mg/kg	,4 44,- j	0306942-12	0	0.20	0.237	118.5%	1.3%
o-Xylene-mg/kg		0306942-12	0	0.10	0.113	113.%	3.5%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	·	0006142-05		0.10	0.110	110.%	
Toluene-mg/kg		0006142-05		0.10	0.114	114.%	
Ethylbenzene-mg/kg		0006142-05		0.10	0.111	111.%	
p/m-Xylene-mg/kg		0006142-05		0.20	0.233	116.5%	
o-Xylene-mg/kg		0006142-05		0.10	0.117	117.%	

# CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

#### Prepared for:

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0306930

Project: Dynegy/ Site #45

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-11	0306930-01	SOIL	07/09/2003	07/09/2003
SS-12	0306930-02	SOIL	07/09/2003	07/09/2003

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference. (0306930-01)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Raland K Juril) Environmental Lab of Texas I, Ltd.

Date: 7-11-03

CLIENT MAME.	SITE MANAGER.		CHAIN-OF-CUISTONY RECORD
	527		
PROJECT NO.:	PROJECT NAME	ATAINERS	Harson & Fax: 915-687-0456 Environmental Consultants 915-687-0901
PAGE / OF / LAB.	LAB. PO #	8/,	507 N. Marienfeld, Ste. 202 • Midland, TX 79701
234110 100 23140 31110 31110	SAMPLE IDENTIFICATION		LAB. I.D. REMARKS NUMBER I.E., FILTERED, UNFILTERED, II AB LISE CONIXY
	<<. / /	7	-
11 1.3:10 V	55-1A		20- 4
· ·			
SAMPLED BY: (Signoture)	DATE: TRELINQUISHI	HED BY: (Signature) DATE: DATE: TIME:	RECEIVED BY: (Signature) DATE: TIME:
RELINQUISHED BY: Signature	REGEIVED	BY: (Signature) DATE: 7/5/03	SAMPLE SHIPPED BY: (Circle)
Inthe Steve 1	TIME: Cur	erre Kyrthe TIME (203	FEDEX BUS AIRBILL #:
COMMENTS:			/ING LAB
RECEIVING LABORATORY: ENVINCENTE	1 tul of 7	REGEIVED BY: (Signature)	1
CITY: CONTACT:	ZIP:	DATE 7/9/03 TIME 9 703	GOLD - QA/QC COORDINATOR
SAMPLE CONDITION WHEN RECEIVED:		LA CONTACT PERSON:	SAMPLE TYPE: 4.5C



# Analytical Report

# Prepared for:

Cindy Crain Larson & Associates, Inc. P.O. Box 50685 Midland, TX 79710

Project: Dynegy Site #45 Project Number: 0-0100-45 Location: None Given

Lab Order Number: 4A29004

Report Date: 01/31/04

#### Project: Dynegy Site #45 Project Number: 0-0100-45 Project Manager: Cindy Crain

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-A	4A29004-01	Soil	01/29/04 08:45	01/29/04 16:00
Spoil	4A29004-02	Soil	01/29/04 08:50	01/29/04 16:00

### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-A (4A29004-01) Soil Sampled: 01/	29/04 08:45 R	eceived: 01/	29/04 16:00	)	<del></del>		<u></u>	<u></u>	· · ·
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA42810	01/29/04	01/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	22.8	10.0	м		n	<b>8</b> 1	"	"	
Total Hydrocarbon C6-C35	22.8	10.0	"	и	n	"	*	н	
Surrogate: 1-Chlorooctane		93.2 %	70-1	30	n		<i>"</i>	"	
Surrogate: 1-Chlorooctadecane		115 %	70-1	30	"	"	"	n	
Spoil (4A29004-02) Soil Sampled: 01/	29/04 08:50 R	eceived: 01/	29/04 16:00	)					
Gasoline Range Organics C6-C12	J [8.44]	10.0	mg/kg dry	1	EA42810	01/29/04	01/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	25.6	10.0		"	n	v	57	17	
Total Hydrocarbon C6-C35	25.6	10.0	"	**	"	łr	n	H	
Surrogate: 1-Chlorooctane		91.8 %	70-1	30	"	"		"	
Surrogate: 1-Chlorooctadecane		109 %	70-1	30	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Quality Assurance Review

Page 2 of 6

#### Project: Dynegy Site #45 Project Number: 0-0100-45 Project Manager: Cindy Crain

### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-A (4A29004-01) Soil	Sampled: 01/29/04 08:45	Received: 01/2	9/04 16:0	0		<u></u>			
Chloride	170	20.0	mg/kg	2	EA43015	01/29/04	01/30/04	SW 846 9253	
% Solids	94.0		%	1	EA43004	01/30/04	01/30/04	% calculation	
Spoil (4A29004-02) Soil	Sampled: 01/29/04 08:50	Received: 01/2	9/04 16:0	0 .					
Chloride	149	20.0	mg/kg	2	EA43015	01/29/04	01/30/04	SW 846 9253	· ···
% Solids	95.0		%	1	EA43004	01/30/04	01/30/04	% calculation	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ndl Quality Assurance Review

Page 3 of 6

Project: Dynegy Site #45 Project Number: 0-0100-45 Project Manager: Cindy Crain

# **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA42810 - 1005 TX										
Blank (EA42810-BLK1)				Prepared	& Analyze	ed: 01/29/			<u> </u>	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	n							
Surrogate: 1-Chlorooctane	35.6		mg/kg	50.0		71.2	70-130			
Surrogate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			
LCS (EA42810-BS1)				Prepared	& Analyze	ed: 01/29/	04			
Gasoline Range Organics C6-C12	395	10.0	mg/kg wet	500		79.0	75-125	· · · · · ·		
Diesel Range Organics >C12-C35	427	10.0	*	500		85.4	75-125			
Total Hydrocarbon C6-C35	822	10.0	n	1000		82.2	75-125			
Surrogate: 1-Chlorooctane	36.2		mg/kg	50.0		72.4	70-130			
Surrogate: 1-Chlorooctadecane	37.4		"	50.0		74.8	70-130			
Calibration Check (EA42810-CCV1)				Prepared	& Analyze	ed: 01/29/	04			
Gasoline Range Organics C6-C12	509		mg/kg	500		102	80-120			
Diesel Range Organics >C12-C35	509		8	500		102	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	62.1		"	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	64.4		"	50.0		129	70-1 <b>3</b> 0			
Matrix Spike (EA42810-MS1)	So	urce: 4A280	15-01	Prepared	& Analyz	ed: 01/29/	04			
Gasoline Range Organics C6-C12	551	10.0	mg/kg dry	526	ND	105	75-125			
Diesel Range Organics >C12-C35	556	10.0	H	526	49.8	96.2	75-125			
Total Hydrocarbon C6-C35	1110	10.0	**	1050	49.8	101	75-125			
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	70-130	·····		
Surrogate: 1-Chlorooctadecane	53.0		"	50.0		106	70-130			
Matrix Spike Dup (EA42810-MSD1)	So	urce: 4A280	15-01	Prepared	& Analyz	ed: 01/29/	04			
Gasoline Range Organics C6-C12	567	10.0	mg/kg dry	526	ND	108	75-125	2.86	20	
Diesel Range Organics >C12-C35	546	10.0	11	526	49.8	94.3	75-125	1.81	20	
Total Hydrocarbon C6-C35	1110	10.0	*	1050	49.8	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	56.5	·····	mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	54.1		"	50.0		108	70-130			

**Environmental Lab of Texas** 

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

nd Quality Assurance Review

Page 4 of 6

### General Chemistry Parameters by EPA / Standard Methods - Quality Control

**Environmental Lab of Texas** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA43004 - % Moisture										
Blank (EA43004-BLK1)				Prepared	& Analyz	ed: 01/30/	04			
% Solids	100		%							
Duplicate (EA43004-DUP1)	Sou	rce: 4A2801	15-01	Prepared	& Analyz	ed: 01/30/	04			
% Solids	95.0		%		95.0			0.00	20	
Batch EA43015 - Water Extraction										
Blank (EA43015-BLK1)				Prepared:	01/27/04	Analyzed	1: 01/30/04			
Chloride	ND	20.0	mg/kg							an ann an
Calibration Check (EA43015-CCV1)				Prepared	& Analyz	ed: 01/30/	04			
Chloride	4940	·	mg/kg	5000		98.8	80-120		<u> </u>	
Matrix Spike (EA43015-MS1)	Sou	rce: 4A270	06-01	Prepared:	01/27/04	Analyzed	l: 01/30/04			
Chloride	691	20.0	mg/kg	500	223	93.6	80-120			
Matrix Spike Dup (EA43015-MSD1)	Sou	rce: 4A270	06-01	Prepared:	01/27/04	Analyzed	1: 01/30/04			
Chloride	702	20.0	mg/kg	500	223	95.8	80-120	1.58	20	-

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sul) <u>Kalandk</u> Quality Assurance Review

#### Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

<u>Kalandk</u> Quality Assurance Review

### **Environmental Lab of Texas** Variance / Corrective Action Report - Sample Log-In

Client: Larson + Ass oc.

Date/Time: 01 - 29-04 @ 1600

JMM

Order #: \_\_\_\_\_ H A 29004

Initials:

### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0	С
Shipping container/cooler in good condition?	Yes	No	N/A	
Custody Seals intact on shipping container/cooler?	Yes	No	Not prese	nD
Custody Seals intact on sample bottles?	Yes	No	Notprese	nt-,
Chain of custody present?	Yes	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Yes	No		
Container labels legible and intact?	KTES.	No		
Sample Matrix and properties same as on chain of custody?	Tes	No		
Samples in proper container/bottle?	Tes	, No		
Samples properly preserved?	tes)	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Tes	No		
Containers documented on Chain of Custody?	res	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	(Yes)	No		
VOC samples have zero headspace?	Yes	No	Not Applica	ble

Other observations:

Variance Documentation:

....

Contact Person: -\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Regarding: 

Corrective Action Taken:

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CLIENT NAME:	VE		1440 m (n 144	1000	SITE MANAGER:		G.	ARAME	:TERS/N	lethod	PARAMETERS/METHOD NUMBER		CHAIN—OF—CUSTODY RECORD	DY RECORD
	Aney	h			Cindy Crain	<u>,</u>	1						c	
PROJECT NO	0:				د ن	VINEKa	15						Agron & Arson & Associates, Inc. Fax: 432-687-0456	2-687-0456
0-1	0-0100-45	40	-		Jife # 45		105	<b>Ə</b> [?;					Environmental Consultants 432-687-0901 507 N. Marticonfold Sta 202 Miniland TX 79701	432-687-0901 Midland TX 79701
PAGE /	Ŀ			LAB. PO #	0.4	OE (	2,	10						
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CITY: CONTACT:					ZIP: 7.563~1800	DATE	ch	9/04	TIME:	1202		-	QA/QC COORDINATOR	
SAMPLE CONDITION WHEN RECEIVED			SI SED			ΓA C(		LA CONTACT PERSON	SON			SAMPLE TYPE:	118	
	-	,						)						an in the state of the State of the State of the state

# **APPENDIX C**

### **Photographs**

507 North Marienfeld, Suite 202 ♦ Midland, Texas 79701 ♦ Ph. (432) 687-0901 ♦ Fax (432) 687-0456

### DYNEGY MIDSTREAM SERVICES, L.P. SITE #45, NE/4, SW/4, SEC. 31, T23S, R37E, LEA CO., NM PHOTOGRAPHS



1. View to north from south side of road. (6/5/03)



2. View to south from north side of road. (6/5/03)

### DYNEGY MIDSTREAM SERVICES, L.P. SITE #45, NE/4, SW/4, SEC. 31, T23S, R37E, LEA CO., NM PHOTOGRAPHS



3. View to north from south side of road. (1/28/04)



4. View to west of excavation south of the road. (1/28/04)

## **APPENDIX A**

# **RELEASE NOTIFICATION AND CORRECTIVE ACTION FORM (C-141)**

507 North Marienfeld, Suite 202 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456

Arch/Pogo Company H. Buck State #4 Sundance 8 Fed #3 West Marland North Lease Palladium 7-6 Edwards 22 State #2 Edwards 22 State #3 WA Ramsey Federal Com #1 Winter 20 #7 LI Baker #6 Toya 3-1 Edwards 10 State #1 Lee Stebblings #5 Patton 18 Federal #3 Neverready #3 Triple X 6 State #1 Harroun 10-3 Harroun 10-2 Harroun 15-15 Resler B #1 Resler A #1 Resler B #3 JR Holt NCT "A" 6Y Harroun 15-17 Harroun 15-16 H. Buck State #3 Riverbend #2 Harroun 15-14 Harroun 10-4 H. Buck #10 Foxglove 29 Fed #1 Sundance Fed #29 Sundance Fed #30 Sundance Fed #31 Lakewood 15 #1 Lakewood 14 #2 Well Name 30-015-34444 Not found Not found Not found Not found Not found 30-015-32941 Not found 30-015-33451 Not found Not found Not found Not found Not found Not found 30-015-32617 30-015-31709 30-015-33317 Not found Not found Not found Not found 30-015-33822 30-015-33318 30-015-33820 30-015-28389 30-015-32620 30-015-32618 30-015-33973 30-015-34695 30-025-36593 30-015-33574 Not found 30-015-33709 Not found API # Yes C-144 Filed Y/N

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torrest Environmental

					BP America						Samson Resources									Range Operating New Mexico	Chesapeake Operating														
Saquaro State 28 #1 Bull Read State 6 #1	Sender State 6 #1	NW Crain A-7	N-7	Flounder State 39 #1	Goldfish 17 #1	Rawhide 29	State BD #4	MesaVerde 15 Federal #1	Pubco Federal #2	Maverick 14 Federal #1	Pineshprings 2 State #1	HS Turner #17	Cole State #17	Cole State #19	Brunson #6	New Mexico State #50	New Mexico State #51	Greenwood #22	Greenwood #23	Greenwood #24	William 14 Federal #1	Patton 17 #12	Patton 17 #9	Edward 22 State #3	Edward 22 State #2	Patton 18 #6	Riverbend 23 #16	Riverbend 10 #1	Whitmire #11	State V 492 #2	Patton 18 Federal #1	Palledium 7 Federal #9	Palledium 7 #10	Seven Rivers 17 #1	State W #7
													30-025-37399	30-025-37400	30-025-37539	30-025-37355	30-025-37354	30-025-37147	30-025-37148	30-025-37224	30-025-36514	30-015-30158	30-015-32435	Not found	Not found	30-015-33825	30-015-33598	30-015-33208	Not found	30-015-32466	30-015-32435	30-015-33732	30-015-33969	30-015-33430	30-015-33349
													cal CINIT 70 2	C-144 505	Yes	Yes	Yes	Yes	Yes	Yes	hat in KODMS 1		Yes			Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	

			•	
Horsetail Federal 9 #1	G.L. Beck #8			

	4 day work week schedule for Sharon, Donna and Pat										
	6:00am - 12:30pm and 1:00pm - 4:30pm										
	2006										
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				
	4/30/2006	5/1/2006	5/2/2006	5/3/2006	5/4/2006	5/5/2006	5/6/2006				
Sharon	] off	off	work	🗛 work	work	A PARTY AND A P	off				
Donna	off	work	work	work	work	off	off				
Pat	] off	work	work	work	work	off	off				
	Sunday	Monday	Tuesday	Wednesday	•	•	Saturday				
	5/7/2006	5/8/2006	5/9/2006		5/11/2006		5/13/2006				
Sharon	off	off	🚊 work 🚛	work	📖 work 📰	work,	off				
Donna	off	work	work	work	work	off	off				
Pat	off	work -	work	work	work	off	off				
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	5/14/2006		5/16/2006	5/17/2006			5/20/2006				
Sharon	off	off	🔆 work 👋	🛀 work 🔄	work 👘		work				
Donna	off	work	work	work	work	off	off				
Pat	] off	show -	works -	works	:work	off	off				
	Sunday	Monday	Tuesday	Wednesday		•	Saturday				
	5/21/2006		5/23/2006	5/24/2006	5/25/2006	5/26/2006	5/27/2006				
Sharon	off	off	work	👷 work 🤖	work	work					
Donna	off	work	work	work	work						
Pat	] off	ww.ork	work	work	Shrow						
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				
	-	5/29/2006	5/30/2006	5/31/2006	6/1/2006	6/2/2006	6/3/2006				
Sharon	off										
Donna	off										
Pat	off										

.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-141 Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 1 16 on back side of form

			Relea	se Notifica	tion a	nd Cor	rective Act	tion					
OPERATOR								[_] Init	ial Rep	ort		Final R	enort
Name: D	vnegy Mic	Istream Ser		TOR Initial Report S Final Report									
		909 Eunice		e No (505) 631	-7069	<u> </u>	·			{			
		ce Plant Ga								7.46			
Pacificy Ival	nc. Eun	le Flaint Ga	mening c	system		Facility 1	ype: Gas Plant	LOWPR	ssure c	rathe	ering I	Lines L	
Surface Owner: Kelly Meyer Deep Wells Mineral Owner Ranch									Lease	No.(	3		
									1				
			<u></u>	and the second		OF RELI		<b>-</b>					
Unit Letter NW Q of the SE Q	Section 31	Township 23S	Range 37E	Feet from the	North/:	South Line	Feet from the	East/We	ast/West Line		County 🛛 Lea		
				NATU	IRE O	FRELEA	ASE						
Type of Rele	ase Natu	ral gas conde	nsate				Release ??		Volume	e Reco	overed	none	7
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By Whom?						Date and H	lour						
Was a Water	course Read	ched?				If YES, Vo	olume Impacting	the Waterc	ourse.				
			r	× No			• -						
			Yes l	A NO		1							
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Spots of sta	ined soil al	ong right of v	vay. Will	cleanup per NM	OCD gu	idelines and	submit docume	ntation to	district (	unice.	•		
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Describe C	ieneral Co	nditions Prev	/ailing (T	emperature, Pre	ecipitatio	)n, etc.)*							
Mid 90 deg	ree daytim	e temperatur	es with di	ry conditions.									
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I hereby certify that the information given above is true and complete to						OIL CONSERVATION DIVISION							
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Signature:	Signature: Cellulung						l by⊡District Sur	vervisor <sup>.</sup>					
	Printed Name:						r of the presence only		·				
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Title:	-t												
	ES&H Advisor Phone: 915 688-0542					Conditions of Approval: Attached				hed			
Date:			1										
6/23/03													

\* Attach Additional Sheets If Necessary