

DUKE ENERGY FIELD SERVICES 370 17th Street Suite 2500 Denver, CO 80202

303 595 3331

December 22, 2004

Mr. Jack Ford, CPG New Mexico Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505

RE: Closure Report for the NMG-148C Pipeline Release (CASE #1R334)

Monument, New Mexico Unit N Section 16, T19S R37E

Dear Mr. Ford:

Duke Energy Field Services, LP (DEFS) is pleased to submit for your review one copy of the Closure Report for the NMG-148C Pipeline Release remediation site located on New Mexico State Land in Lea County, New Mexico (Unit N Section 16, T19S R37E).

Based on the request in the New Mexico Oil Conservation Division (OCD) letter dated October 7, 2004, the closure report is a comprehensive report containing the results to date of all remediation and investigation activities associated with the NMG-148C Pipeline Release. The enclosed comprehensive closure report has actually been broken down into two stand alone reports with one report addressing the hydrocarbon-impacted soils and the remaining report addressing the hydrocarbon-impacted groundwater.

All activates associated with the remediation of NMG-148C pipeline release were completed following the requirements set forth in the OCD approvals. Based on the final analytical results all OCD soil remedial goals have been met, therefore, DEFS would like to request closure of the NMG-148C soil remediation activities. DEFS postpones the request for groundwater closure pending receipt and validation of the results from recently-installed well NMG-MW5.

If you have any questions regarding this report, please call me at 303-605-1718.

Sincerely

Duke Energy Field Services, LP

Muld H. the Fe

Stephen Weathers, P.G.

Sr. Environmental Specialist

Enclosure

cc: Larry Johnson - OCD District Office Hobbs

Lynn Ward – DEFS Midland

Environmental Files

December 22, 2004

Mr. Stephen Weathers Duke Energy Field Services, LP 370 17th Street, Suite 2500 Denver, CO 80202



Re: Summary of Groundwater Characterization and Monitoring Activities Completed at the NMG-148C Release Site (CASE #1R334) in Lea County New Mexico Unit-N, Section 16, Township 19 South Range 37 East,

Dear Mr. Weathers:

This letter summarizes the groundwater characterization and monitoring activity information for the Duke Energy Field Services (DEFS) NMG-148C release location (site). This information was requested by the New Mexico Oil Conservation Division (OCD) in an October 8, 2004 letter. Specifically, OCD required the following items in their letter (note that the paragraph numbers correspond to their original letter):

- 3. Upon completion of the excavation activities, Duke shall install a ground water monitoring well directly adjacent to and downgradient of the excavated area to demonstrate that ground water in the source area has been remediated to New Mexico Water Quality Control Commission (WQCC) ground water standards.
- 4. The monitor well shall be installed and developed in accordance with OCD's prior investigation work plan approval.
- 5. No less than 24 hours after well development, ground water from the newly installed monitor well shall be purged, sampled and analyzed for concentrations of BTEX and polynuclear aromatic hydrocarbons using EPA approved methods and QA/QC procedures.
- 6. In order to provide a point in time snapshot of overall ground water conditions throughout the site, water quality sampling of the newly installed wells shall be coordinated to coincide with a sampling event of all previously installed monitoring wells.
- 8. A comprehensive report containing the results of all remediation and investigation activities shall be submitted to the OCD Santa Fe Office by December 31, 2004 with a copy provided to the OCD Hobbs District Office. The report shall contain:
 - a. A comprehensive description and summary of the results of all past and present soil and ground water investigation, remediation and monitoring activities.

- b. A site map showing the location of pipelines, excavations, spills, monitoring wells, recovery wells, and any other pertinent site features.
- c. Summary tables of all past and present soil and ground water quality sampling results including copies of all recent laboratory analytical data sheets and associated QA/QC data.
- d. The disposition of all wastes generated.

This letter provides the above information.

SUMMARY OF ACTIVITES COMPLETED

This section summarizes the investigative activities completed. It partially fulfills the requirements of paragraph 8a.

A barren area resulting from a release in the NMG-148C pipeline was first discovered the week of December 9, 2002. Hand excavation revealed stained and odorous soils within the barren area. DEFS commissioned the installation of a monitor well near the center of the release on December 13, 2002. Continuous samples were logged for lithology and screened with a photoionization detector (PID) until saturated materials were encountered at approximately 28 to 29 feet below ground surface (bgs). The sample with the highest PID reading and the sample immediately above the saturated materials were submitted for testing by an analytical laboratory. The results are summarized below:

Summary of Soil Sampling Results From Boring MW-1

	difficulty of be				7011115 1VI	** 1	
Depth Interval	FIELD PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Benzene	Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
5.7	452						
5-7	452						
10-12	526				en.m.eu		
15-17	577	14.3	60.1	10.2	41.2	657	14.9
20-22	534						
23-25	355						
25-27	252	48.4	84.4	11.4	37.7	1,320	21.8

The well, identified as NMG MW-1 on Figure 1, had a measured product thickness of approximately 1.33 feet. The depth to the top of the product was measured at 30.33 feet below top of casing (btoc) on December 31, 2002.

Well NMG MW-2 was installed on December 16, 2002 at the location shown on Figure 1. This location was selected because it is in the same swale as the release. This well was developed on December 17, 2002, and it was purged and sampled on December 18,

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2002. The sample did not contain detectable concentrations of the benzene, ethylbenzene, toluene and xylene (BTEX) constituents or total petroleum hydrocarbons (TPH) in the gasoline or diesel ranges.

Two additional wells were installed on February 5, 2003 at the locations shown on Figure 1. Well NMG MW-3 was installed as a background well northwest of the NMG-148C site. Well NMG MW-4 was installed at a location where pressure testing indicated that a leak in the NMG-148 pipeline (subsequently removed) might be present.

Samples were collected at 5-foot intervals from 5 to 25 feet in both new wells. Each sample was screened for the presence of volatiles using a photoionization detector (PID). The readings for all 10 samples from both wells were all zero (no ionizable constituents present). The samples from NMG MW-3 were not submitted for laboratory analysis because the boring was advanced in an upgradient location per prior approval by the OCD.

The five soil samples from well NMG-MW-4 were submitted to Environmental Labs of Texas for analyses for TPH as gasoline and diesel range organics. None of the soil samples contained detectable concentrations of TPH as gasoline or diesel range organics at a detection limit of 10 mg/kg (ppm).

Well NMG MW-1 was removed by Environmental Plus Incorporated (EPI) in January 2003 during their excavation activities. Their activities included the excavation of materials inside the footprint shown in Figure 1 to a depth of approximately 24 feet. Another DEFS contractor removed the NMG-148 pipeline within the entire study area. These activities are discussed in a separate document.

Wells NMG-MW2, NMG-MW3, NMG-MW4 and the excavation were subsequently sampled on the following dates:

- February 2, 2003
- June 2, 2003
- September 23, 2003
- December 15, 2003
- January 23, 2004
- March 22, 2004
- June 21, 2004
- September 9, 2004
- December 10, 2004

Well NMG-MW5 was installed on December 15, 2004 at the location shown on Figure 1. This location was selected to minimize interference with future reseeding activities. Cuttings samples were screened with a PID at 5 foot intervals, and none of the measurements were above background. There were no visual or olfactory indications of hydrocarbon impacts. The well completion information for all wells excluding

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NMG-MW1 is summarized in Table 1.

NMG-MW5 was developed on December 16, 2004 and sampled on December 17, 2004 during the same week as the other site wells to fulfill the OCD requirements in paragraphs 3, 4, 5 and 6. The results from this well were unavailable as of the date of this report. They will be provided upon receipt and validation.

DISPOSITION OF WASTES

This section summarizes the disposition of wastes as required above in OCD paragraph 8d. The soils cuttings were drummed and disposed of at an OCD approved landfarm. All affected groundwater was disposed at the DEFS Linan Ranch facility.

SUMMARY OF DATA COLLECTED

This section summarizes the water level and chemistry data collected during the project to comply with the requirements in OCD paragraphs 8a, 8b and 8c above. The depths to groundwater were measured during each sampling episode. The resulting water-table elevations that were calculated based upon these measurements are tabulated in Table 2.

The December 2004 depths in feet for the four monitoring wells were measured as follows:

NMG-MW2: 25.16 feet
NMG-MW3: 26.10 feet
NMG-MW4: 27.30 feet
NMG-MW5: 27.07 feet

The elevation of well MW-5 was not established; however the information indicates that the depth to water in it is similar to that measured in the other three wells.

Hydrographs for wells NMG-MW2, NMG-MW3 and NMG-MW4 are shown on Figure 2. The hydrographs show that the water table at each location responds to seasonal climatic changes in a similar fashion. Figure 2 shows that the rains that begin in March 2004 and continued periodically through the rest of the year resulted in substantial increases in the water table elevations beneath the site.

The organic data for the wells is summarized in Table 3. The laboratory reports for the September 2004 and the December 2004 sampling efforts are attached to this report because they have not been previously provided to the OCD. Examination of Table 3 shows that the BTEX constituents have not been detected in any of the nine sampling episodes with the exception of the December 2003 episode where either laboratory of field contamination produced anomalous results. TPH as gasoline and diesel range

Mr. Stephen Weathers December 22, 2004 Page 5

organics were also not detected in wells MW-2, MW-3 and MW-4 during each well's initial sampling episode.

The inorganic data collected from the NMG wells is summarized in Table 4. There were no anomalous concentrations noted. The was a substantial difference between the total (unfiltered) and dissolved (filtered) metals barium, iron and manganese. This result was expected given the relatively turbid nature of the samples when they were acidified to preserve them.

The BTEX concentrations measured in the excavation are summarized in Table 5 and graphed over time in Figure 4. Examination Figure 4 indicates that the concentrations rapidly attenuated to a concentration that was near or below the 0.010 mg/l groundwater standard from the New Mexico Water Quality Control Commission. It is also important to note that no visible sheen was noted on the water within the excavation since a wind-driven aeration unit was installed in August 2003.

CONCLUSIONS

The data collected to date indicate that the remediation activities completed by EPI successfully removed the vast majority of the hydrocarbon mass from the release area. The wind-driven aeration unit subsequently enhanced removal of the dissolved-phase hydrocarbons from the excavation until only trace concentrations remain. Hydrocarbons have never been detected in the down-gradient wells, establishing the very-limited extent of any dissolved-phase hydrocarbon migration.

I conclude that no further actions related to groundwater monitoring are necessary at this site. I recommend that the wells associated with this site be plugged and abandoned in a appropriate fashions.

Do not hesitate to contact me if you have any questions or comments on this report.

Respectfully Submitted,

AMÉRICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart, P.E., C.P.G.

Principal Engineer

Attachments

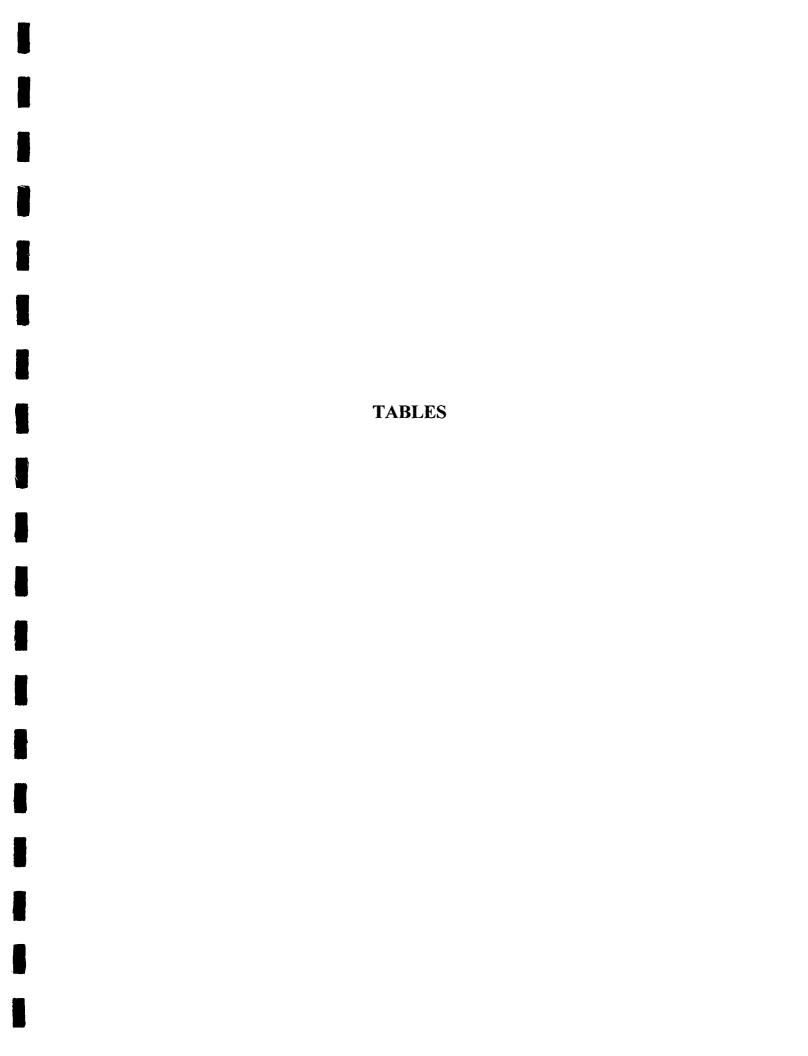


Table 1 – NMG-148C Well Completion Information

Well	Date Installed	Total Depth	Screened Interval		Bentonite Interval
Autorities and the Committee	JAMES LALLING CO.	Dopui		**************************************	
NMG MW-2	12/16/02	35	20-35	18-35	3-18
NMG MW-3	2/5/03	37	17-37	15-37	3-15
NMG MW-4	2/5/03	37	17-37	15-37	3-15
NMG MW-5	12/15/04	35	20-35	11-20	3-11

All units are feet

MW-1 destroyed during remediation in Jan/Feb 2003

Table 2 – Measured Groundwater Elevations for The NMG-148C Wells

Well	2/7/03	6/2/03	9/23/03	12/15/03	3/22/04	6/21/04	9/19/2004	12/10/2004
NMG MW-2	3,617.05	3,617.00	3,616.93	3,616.89	3,616.84	3,618.06	3,617.25	3,621.74
NMG MW-3	3,620.02	3,619.99	3,619.94	3,619.94	3,619.89	3,620.43	3,620.09	3,623.70
NMG MW-4	3,615.77	3,615.71	3,615.64	3,615.57	3,615.52	3,616.34	3,615.86	3,618.78

All units are feet

Table 3 – Summary of Organic Data from The NMG-148C Study Area Wells

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH GRO	TPH DRO
	i Date		- 1575 <u>/1875</u> (1	함명 Net L LAGA	Aylelles	GRO	DKO.
NMG MW-2	12/17/02	<0.001	<0.001	<0.001	< 0.001	<1.0	<1.0
NMG MW-2	6/2/03	<0.001	< 0.001	<0.001	<0.001		
NMG MW-2	9/23/03	< 0.001	< 0.001	<0.001	< 0.001		
NMG MW-2	12/15/03	0.034	< 0.001	< 0.001	< 0.001		
NMG MW-2 (dup)	12/15/03	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2	1/23/04	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2	3/22/04	<0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2 (dup)	3/22/04	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2	6/21/04	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2 (dup)	6/21/04	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2	9/19/04	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2 (dup)	9/19/04	<0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2	12/10/04	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-2 (dup)	12/10/04	< 0.001	< 0.001	< 0.001	< 0.001		
NMG MW-3	2/7/03	<0.001	<0.001	< 0.001	< 0.001	<3.0	<3.0
NMG MW-3	6/2/03	< 0.001	<0.001	< 0.001	<0.001		
NMG MW-3	9/23/03	< 0.001	<0.001	< 0.001	<0.001		
NMG MW-3	12/15/03	0.002	<0.001	< 0.001	< 0.001		
NMG MW-3	1/23/04	<0.001	<0.001	< 0.001	< 0.001		
NMG MW-3	3/22/04	<0.001	<0.001	< 0.001	<0.001		
NMG MW-3	6/21/04	<0.001	<0.001	< 0.001	<0.001		
NMG MW-3	9/19/04	<0.001	<0.001	< 0.001	<0.001		
NMG MW-3	12/10/04	<0.001	<0.001	< 0.001	<0.001		
NMG MW-4	2/7/03	<0.001	<0.001	< 0.001	<0.001	<3.0	<3.0
NMG MW-4	6/2/03	<0.001	<0.001	< 0.001	0.001		
NMG MW-4	9/23/03	<0.001	<0.001	< 0.001	<0.001		
NMG MW-4	12/15/03	0.038	<0.001	< 0.001	<0.001		
NMG MW-4	1/23/04	<0.001	<0.001	< 0.001	<0.001		
NMG MW-4	3/22/04	<0.001	<0.001	< 0.001	<0.001		
NMG MW-4	6/21/04	<0.001	<0.001	< 0.001	<0.001		
NMG MW-4	9/19/04	<0.001	<0.001	< 0.001	< 0.001		
NMG MW-4	12/10/04	<0.001	<0.001	< 0.001	<0.001		

Notes: 1) All units mg/l

²⁾ Blank cell indicates sample not analyzed for that parameter

Table 4 – Summary of Inorganic Data from The NMG-148C Study Area Wells

Well	Calcium	Magnesium	Potassium	Sodium	Bicarbonate
NMG MW-2	138	21.1	6.78	68.5	195
NMG MW-3	49.8	7.02	3.64	39.4	141
NMG MW-4	57.5	8.4	4.36	52.5	152

Well	Chloride	Sulfate	Total Dissolved Solids	Barium (total)	Barium (dissolved)
NMG MW-2	62	93.8		7.45	0.496
NMG MW-3	31.9	55.1	64	726	0.591
NMG MW-4	40.8	90.7	295	1.18	0.079

	Well	Iron (total)	Iron (dissolved)	Manganese (total)	Manganese (dissolved)	
NM	1G MW-2	88.8	0.148	0.787	0.018	
NM	1G MW-3	12.6	0.015	0.214	0.009	
NM	1G MW-4	26.5	0.036	0.452	0.046	

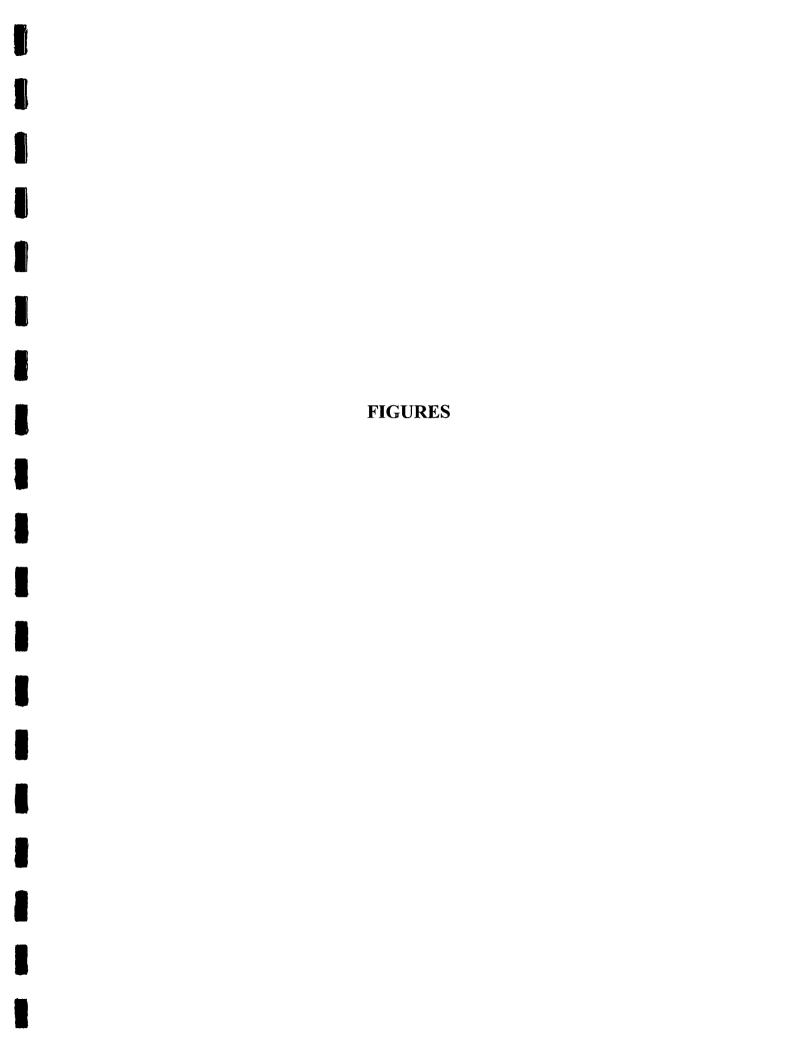
Notes: 1) all units are mg/l

²⁾ carbonate and hydroxyl alkalinity were not detected at 0.10 mg/l in the above samples

Table 5 – Summary of Data from The NMG-148C Excavation

	Sampling				Total
Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes
					0.463/0.4
Excavation	2/14/03	4.25/4.46	3.15/3.01	1.63/1.54	36
Excavation (north)	4/17/03	0.055	0.043	< 0.002	0.003
Excavation (south)	4/17/03	0.048	0.038	< 0.002	0.003
Excavation (sw corner)	6/2/03	0.154	0.260	0.039	1.25
Excavation (sw corner)	9/23/03	0.013	0.014	0.001	0.003
Excavation (sw corner)	10/31/03	0.025	0.026	0.002	0.007
Excavation (sw corner)	12/15/03	0.041	0.032	0.002	0.008
Excavation (sw corner)	1/13/04	0.0395	0.0393	0.00146	0.00809
Excavation (sw corner)	1/23/04	0.0531	0.0487	0.00184	0.00854
Excavation (sw corner)	3/22/04	0.011	0.00875	< 0.001	0.0015
Excavation (ne corner)	1/13/04	0.0347	0.0361	0.00140	0.00766
Excavation (ne corner)	1/23/04	0.0301	0.0291	0.00121	0.00627
Excavation (ne corner)	3/22/04	0.00781	0.00640	< 0.001	0.00111
Excavation (se corner)	6/21/04	0.000457	< 0.001	< 0.001	0.000659
Excavation (se corner)	9/19/04	0.0175	0.0384	0.00112	0.0043

All units mg/l



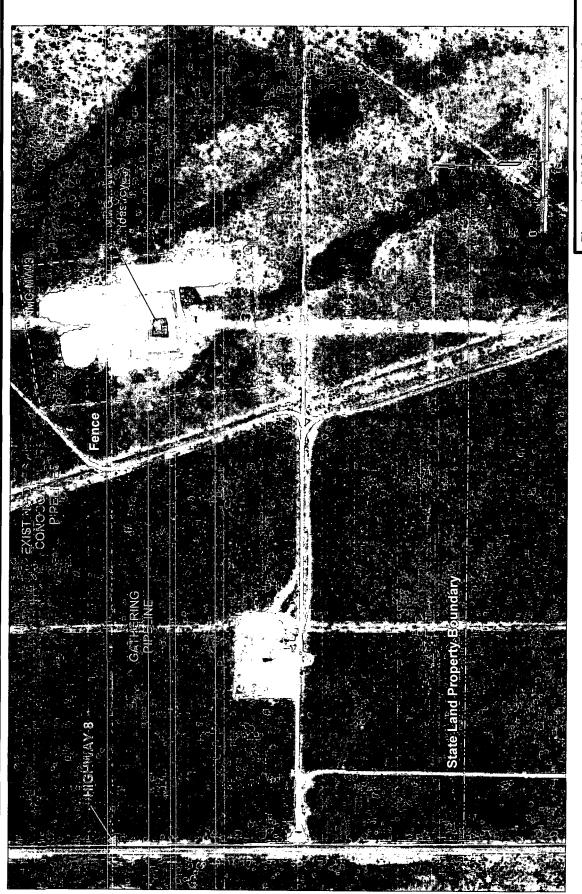
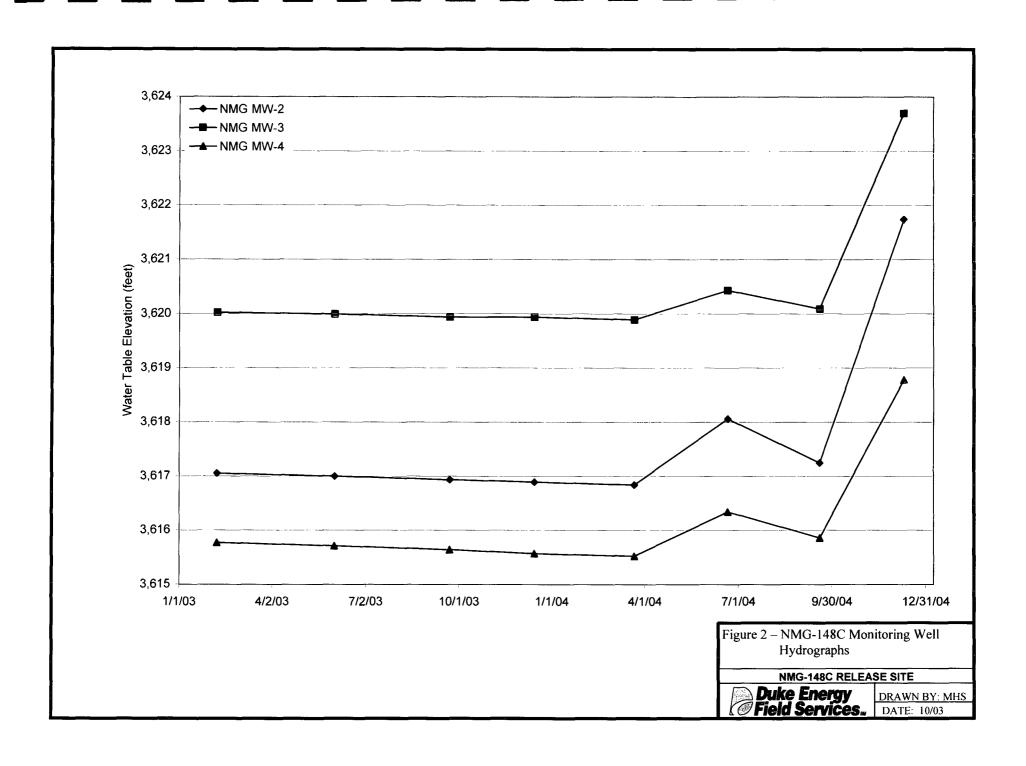
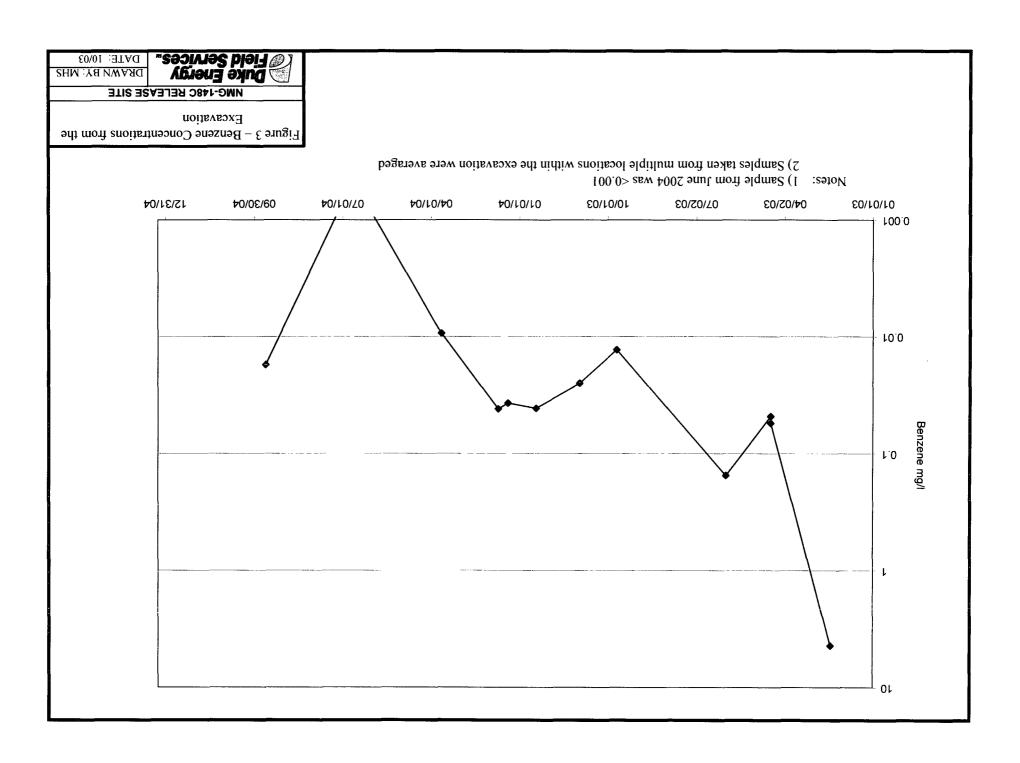


Figure 1 - NMG-148C Release Site Layout and Well Locations

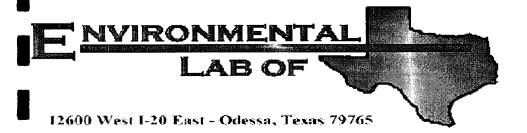
Duke Energy DRAWN Field Services. Date:

DRAWN BY: MHS DATE: 10/03





LABORATORY REPORTS FOR SEPTEMBER 2004 AND DECEMBER 2004



Analytical Report

Prepared for:

Michael Stewart REMEDIACON P.O. Box 302 Evergreen, CO 80437

Project: DEFS-NMG-148C (4 in. Line)
Project Number: None Given
Location: Lea County, New Mexico

Lab Order Number: 4I22007

Report Date: 09/28/04

Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported: 09/28/04 09:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NMG MW-3	4122007-01	Water	09/20/04 14:00	09/22/04 11:30
NMG Excavation	4122007-02	Water	09/20/04 14:15	09/22/04 11:30
NMG MW-2	4122007-03	Water	09/20/04 14:45	09/22/04 11:30
NMG MW-4	4122007-04	Water	09/20/04 14:45	09/22/04 11:30
NMG Trip Blank	4122007-05	Water	09/20/04 00:00	09/22/04 11:30

Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported: 09/28/04 09:43

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NMG MW-3 (4122007-01) Water									
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	ND	0.00100	11	ď	*	11	•	u	
Ethylbenzene	ND	0.00100	н	•	"	"	"	**	
Xylene (p/m)	ND	0.00100		"	*	**	"	Ħ	
Xylene (o)	ND	0.00100	11	Ħ	**	Ħ	**	**	
Surrogate: a,a,a-Trifluorotoluene		118%	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	80-	120	"	"	"	"	
NMG Excavation (4122007-02) Water									
Benzene	0.0175	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	-
Toluene	0.0384	0.00100	"	н	**	*	•	*	
Ethylbenzene	0.00112	0.00100	н	•	Ħ	*	11	"	
Xylene (p/m)	0.00313	0.00100	Ħ		"	"	**	u	
Xylene (o)	0.00117	0.00100	**	и	#	*	**	**	
Surrogate: a,a,a-Trifluorotoluene		130 %	80-	120	"	"	"	"	S-0
Surrogate: 4-Bromofluorobenzene		89.0 %	80-	120	"	"	"	Ħ	
NMG MW-2 (4122007-03) Water									
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	ND	0.00100	"	н	"	•	**	"	
Ethylbenzene	ND	0.00100	"	"	**	"	**	**	
Xylene (p/m)	ND	0.00100	**	I†	#	"	"	**	
Xylene (o)	ND	0.00100	"	Ħ	,,	**	**	41	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-	120	"	n	n	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	80-	120	"	n	"	H	
NMG MW-4 (4122007-04) Water									
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	ND	0.00100	"	н	u	u	11	u	
Ethylbenzene	ND	0.00100	"	**	**	18	и	ti .	
Xylene (p/m)	ND	0.00100	"	**	"	**	u	**	
Xylene (o)	ND	0.00100	"	ч	**	**	ч	**	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-	120	#	"	#	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-	120	"	"	"	"	

Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported: 09/28/04 09:43

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
NMG Trip Blank (4122007-05) Water		***************************************					•••		
Benzene	ND	0.00100	mg/L	1	EI42708	09/24/04	09/24/04	EPA 8021B	
Toluene	ND	0.00100	n	н	**		**	"	
Ethylbenzene	ND	0.00100	•	**	**	**	#	·	
Xylene (p/m)	ND	0.00100	"	**	11	**	17	и	
Xylene (o)	ND	0.00100		"	**	**	*	"	
Surrogate: a,a,a-Trifluorotoluene		119%	80-1	120	"	"	"	н	
Surrogate: 4-Bromofluorobenzene		87.5 %	80-1	120	"	"	"	"	

P.O. Box 302 Evergreen CO, 80437 Project: DEFS-NMG-148C (4 in. Line)

Fax: 720-528-8132

Reported:

Project Number: None Given
Project Manager: Michael Stewart

09/28/04 09:43

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 EI42708 - EPA 5030C (GC)										
Blank (EI42708-BLK1)				Prepared &	Analyzed:	09/24/04				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	**							
Xylene (o)	ND	0.00100	**							
Surrogate: a,a,a-Trifluorotoluene	23.5		ug/l	20.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	17.1		"	20.0		85.5	80-120			
LCS (EI42708-BS1)		Prepared & Analyzed: 09/24/04								
Benzene	80.3		ug/l	100		80.3	80-120			
Toluene	88.5		"	100		88.5	80-120			
Ethylbenzene	81.6		"	100		81.6	80-120			
Xylene (p/m)	176		**	200		88.0	80-120			
Xylene (o)	82.2		**	100		82.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.9		"	20.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	16.5		"	20.0		82.5	80-120			
Calibration Check (EI42708-CCV1)				Prepared &	k Analyzed:	09/24/04				
Benzene	97.3		ug/l	100		97.3	80-120			
Toluene	94.1		**	100		94.1	80-120			
Ethylbenzene	94.4		"	100		94.4	80-120			
Xylene (p/m)	190		"	200		95.0	80-120			
Xylene (o)	90.0		•	100		90.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.3		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	19.7		"	20.0		98.5	80-120			
Duplicate (EI42708-DUP1)	Sou	rce: 4122007-0	02	Prepared &	k Analyzed:	09/24/04				
Benzene	0.0210	0.00100	mg/L		0.0175			18.2	20	
Toluene	0.0407	0.00100	**		0.0384			5.82	20	
Ethylbenzene	0.00128	0.00100	•		0.00112			13.3	20	
Xylene (p/m)	0.00322	0.00100	u		0.00313			2.83	20	
Xylene (o)	0.00125	0.00100	"		0.00117			6.61	20	
Surrogate: a,a,a-Trifluorotoluene	22.9		ug/l	20.0		114	80-120			,
Surrogate: 4-Bromofluorobenzene	16.2		"	20.0		81.0	80-120			

Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132 Reported:

09/28/04 09:43

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. 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 LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

Report Approved By:	Date:
---------------------	-------

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Biezugbe, Lab Tech.

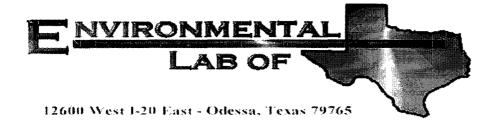
This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

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

Client: <u>Bemediacoo</u>				
Date/Time: 12-15-04 @ 1000				
Order#: 4 L 15008				
Initials:				
Sample Receipt	Checkl	ist		
Temperature of container/cooler?	Yes	,	05 C	1
Shipping container/cooler in good condition?	Yes	No		1
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)	1
Custody Seals intact on sample bottles?	(Yes)	No	Not present	1
Chain of custody present?	Yes	No		Ť
Sample Instructions complete on Chain of Custody?	res)	No		1
Chain of Custody signed when relinquished and received?	res	No		1
Chain of custody agrees with sample label(s)	Yes	No		1
Container labels legible and intact?	Yes	No		1
Sample Matrix and properties same as on chain of custody?	Wes.	No		1
Samples in proper container/bottle?	Yes	No	<u> </u>	1
Samples properly preserved?	res	No		-
Sample bottles intact?	Tes	No		1
Preservations documented on Chain of Custody?	(Yes)	No		-
Containers documented on Chain of Custody?	Yes	No		1
Sufficient sample amount for indicated test?	(Yes)	No		1
All samples received within sufficient hold time?	Yes	No		1
VOC samples have zero headspace?	Yes	No	Not Applicable	1
Other observations:		and and design of the second s		
Variance Docum Contact Person: Date/Time: Regarding:			Contacted by:	
Corrective Action Taken:				

_				
		······································	······································	



Analytical Report

Prepared for:

Michael Stewart REMEDIACON P.O. Box 302 Evergreen, CO 80437

Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given Location: Lea County, NM

Lab Order Number: 4L15008

Report Date: 12/20/04

P.O. Box 302 Evergreen CO, 80437 Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported: 12/20/04 18:03

ANALYTICAL REPORT FOR SAMPLES

Sample 1D	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	4L15008-01	Water	12/13/04 14:05	12/15/04 10:00
MW-3	4L15008-02	Water	12/13/04 13:40	12/15/04 10:00
MW-4	4L15008-03	Water	12/13/04 14:20	12/15/04 10:00
MW-103	4L15008-04	Water	12/13/04 14:40	12/15/04 10:00
Trip Blank	4L15008-05	Water	12/13/04 00:00	12/15/04 10:00

Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported: 12/20/04 18:03

Organics by GC Environmental Lab of Texas

	W-0	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (4L15008-01) Water									
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	ND	0.00100	"	11	n	**	n	**	
Ethylbenzene	ND	0.00100	"	11		**	11	0	
Xylene (p/m)	ND	0.00100	n	**	"	и	"	19	
Xylene (o)	ND	0.00100		**	"	"	н	n	
Surrogate: a,a,a-Trifluorotoluene		88.1 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	80-	120	"	"	n	u	
MW-3 (4L15008-02) Water									
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	ND	0.00100	"	0	•	и	w	11	
Ethylbenzene	ND	0.00100	"	н		и	H	n	
Xylene (p/m)	ND	0.00100	п	10	u	"	R		
Xylene (o)	ND	0.00100	"	"	19	н	*	н	
Surrogate: a,a,a-Trifluorotoluene		85.6 %	80-	-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	80-	-120	"	"	n	n .	
MW-4 (4L15008-03) Water									
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	ND	0.00100	п	и	19	**	10	,	
Ethylbenzene	ND	0.00100	11	"		н	R	н	
Xylene (p/m)	ND	0.00100	,,		"	u	*1	"	
Xylene (o)	ND	0.00100	*1	"	"	H	**	"	
Surrogate: a,a,a-Trifluorotoluene		85.9 %	80-	-120	n n	"	"	n	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-	-120	"	n	n	n	
MW-103 (4L15008-04) Water									
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	ND	0.00100	"	"	n	0	я	n	
Ethylbenzene	ND	0.00100	,,	11	,,	**	n	**	
Xylene (p/m)	ND	0.00100	"	14	ıı	"	n	e	
Xylene (o)	ND	0.00100	"	19	u.	"	*	н	
Surrogate: a,a,a-Trifluorotoluene		91.3 %	80-	-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-	-120	"	,,	"	"	

Project: DEFS-NMG-148C (4 in. Line)

Fax: 720-528-8132

P.O. Box 302 Evergreen CO, 80437 Project Number: None Given
Project Manager: Michael Stewart

Reported: 12/20/04 18:03

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (4L15008-05) Water	<u> </u>	·	*****			· · · · · · · · · · · · · · · · · · ·			
Benzene	ND	0.00100	mg/L	1	EL41705	12/16/04	12/16/04	EPA 8021B	
Toluene	ND	0.00100	#	"	*1			n	
Ethylbenzene	ND	0.00100			"	н	**	*1	
Xylene (p/m)	ND	0.00100			*	v	15	11	
Xylene (o)	ND	0.00100	H-	"	**	"	u	,,	
Surrogate: a,a,a-Trifluorotoluene		90.1 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	80-12	20	"	"	,,	"	

Project: DEFS-NMG-148C (4 in. Line)

Fax: 720-528-8132

P.O. Box 302 Evergreen CO, 80437

Project Number: None Given Project Manager: Michael Stewart

Reported: 12/20/04 18:03

Organics by GC - Quality Control **Environmental Lab of Texas**

	5 /	Reporting	* * · *.	Spike	Source	WDEG	%REC	DDD	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EL41705 - EPA 5030C (GC)										
Blank (EL41705-BLK1)				Prepared &	k Analyzed:	12/16/04				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	u							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	19							
Surrogate: a,a,a-Trifluorotoluene	94.4		ug/l	100		94.4	80-120			
Surragate: 4-Bromofluorobenzene	96.8		,,	100		96.8	80-120			
LCS (EL41705-BS1)				Prepared &	& Analyzed:	12/16/04				
Benzene	99.0	, , , , , , , , , , , , , , , , , , ,	ug/l	100		99.0	80-120			
Toluene	99.5			100		99.5	80-120			
Ethylbenzene	99.6		10	100		99.6	80-120			
Xylene (p/m)	219			200		110	80-120			
Xylene (o)	107			100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	108		"	100		108	80-120	V		
Surragate: 4-Bromofluorobenzene	116		"	100		116	80-120			
Calibration Check (EL41705-CCV1)				Prepared &	& Analyzed:	12/16/04				
Benzene	93.3		ug/l	100		93.3	80-120			
Toluene	94.9		**	100		94.9	80-120			
Ethylbenzene	93.1		**	100		93.1	80-120			
Xylene (p/m)	199		**	200		99.5	80-120			
Xylene (o)	96.4		**	100		96.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	103		"	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			
Matrix Spike (EL41705-MS1)	Sou	ırce: 4L12004	-06	Prepared &	& Analyzed:	12/16/04				
Benzene	101		ug/l	100	ND	101	80-120			
Toluene	101		0	100	ND	101	80-120			
Ethylbenzene	101		**	100	ND	101	80-120			
Xylene (p/m)	208	4	ŧŧ	200	ND	104	80-120			
Xylene (o)	100		v	100	ND	100	80-120			
Surragate: a,a,a-Trifluorotoluene	113		"	100		113	80-120			
Surragate: 4-Bromofluorohenzene	113		"	100		113	80-120			

P.O. Box 302 Evergreen CO, 80437 Project: DEFS-NMG-148C (4 in. Line)

Project Number: None Given
Project Manager: Michael Stewart

Fax: 720-528-8132

Reported: 12/20/04 18:03

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	EL	41705 -	EPA	5030C	(GC)
-------	----	---------	------------	-------	------

Matrix Spike Dup (EL41705-MSD1)	Source: 4	L12004-06	Prepared &	Analyzed:	12/16/04			
Benzene	94.2	ug/l	100	ND	94.2	80-120	6.97	20
Toluene	96.0	"	100	ND	96.0	80-120	5.08	20
Ethylbenzene	94.8	"	100	ND	94.8	80-120	6.33	20
Xylene (p/m)	200	,,	200	ND	100	80-120	3.92	20
Xylene (o)	97.3	**	100	ND	97.3	80-120	2.74	20
Surrogate: a,a,a-Trifluorotoluene	102	"	100		102	80-120	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Surragate: 4-Bromofluorobenzene	117	"	100		117	80-120		

REMEDIACON Project: DEFS-NMG-148C (4 in. Line)
P.O. Box 302 Project Number: None Given

Evergreen CO, 80437 Project Manager: Michael Stewart

Fax: 720-528-8132

Reported:
12/20/04 18:03

Notes and Definitions

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

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Kaland K July		
Report Approved By:	Commercial	Date:	12/20/2004

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Ma	anager: <u>Michael H</u>	. Stewart	······											_		Ргој	ect	Nan	ne: _	DEF	<u>-s</u>	NN.	<u>/IG-</u>	148	C((4" L	ine)		
Company	Name Remediac	on, Inc.															Pro	ject	i#:_											
Company Ac	dress: P. O. Box	302		·							,,,,,,	**************************************		_		Pi	rojec	t Lo	oc: _	_ea	Co	unt	y, N	ew	Me	exico)			
City/Sta	ate/zip: Evergreen	ı, Colorad	o 80437															PO	#;											
Telepho Sampler Sig	one No: <u>(303)</u> 674- nature: <u></u>	4370 -7 Zu			Fax No	: <u>(7</u> 2	20)	52	8-8	132																				
	-		y											_					TCI	p.l	7	nalyz	e Fo	ir:				\blacksquare		
						な	grane.		***			**********	-						TOTA		1		X							
æ				pe	8	ners 40x 5			Pres	erva				Ma	atrix		15M 1005 1006	, Na, K)	, CO3, HCO3)	SAR / ESP / CEC	BO DI AL IO DO B		BTEX(80218/5030) or BTEX 8280						re-Schedule	
ULISONS AB # (leb use only)	FIEL	D CODE		Date Sampled	Time Sampled	No. of Containers	ice	HNO,	HC!	NaOH	H ₂ SO,	None Other / Specify)	Water	Sludge	Soil	Other (specify):	TPH: 418.1 801	Cations (Ca. Mg, Na. K)	Anions (C), SO4	Matole: he An B	Volatiles	Semivolatiles	BTEX 8021 B/50	RCI	N.O.R.M.				RUSH TAT (Pre-Schedule	Standard TAT
-01	Mw-2			12/13/04	1405	2	1		1				~										4		floor					سما
-702	Mw-3		······································	12/13/04	1340	2	٢		V				1	1_				\perp	\perp		\perp		1		\bot		Ш			4
-თ	MW-4			12/13/04	1420	2	L		~		_	\perp	1	1_			\perp	\perp	_	_			1	\perp	\perp	\bot				V
	MW-103			12/13/04	1440	2	M	1_	1				٢	1_		_		\perp	\bot	\perp	_		4	\perp	\bot	\bot		1	-	v
	Trip Blank					2	K	-	7		-	_	╀	1		-	-	+	+	+	+	\vdash	4	+	+	+		_	+	V
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	****					<u> </u>		1			\perp	_	L	-					_ _		<u> </u>				\perp	1	Щ	4	\dashv	
	Send fax copy of lab					and	inv	/oce	to S	tept	 nen	Wea	the	rs, C	uke	En	ergy					iners.				(Y)		N		
	Field Services, 303	17th Street,	Suite 2500,	Denver, CO	80202													1.0) Som								
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elinquished by:		Date	Time	Received by EL	or U A.)								late 15:4	.4		me VQ													

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

Client: Remediacoo				
Date/Time: 12-15-04 @ 1000				
Order #: L L 5008.	**			
Initials:				
Sample Receipt	Checkli	ist		
Temperature of container/cooler?	Yes		08	C
Shipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not prese	nts
Custody Seals intact on sample bottles?	Yes	No	Not prese	
Chain of custody present?	(Yes	No		
Sample Instructions complete on Chain of Custody?	res	No		
Chain of Custody signed when relinquished and received?	res	No		
Chain of custody agrees with sample label(s)	Yes	No		
Container labels legible and intact?	Yes	No		******
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/bottle?	Yes	<u>No</u>		
Samples properly preserved?	res	No		
Sample bottles intact?	(Yes)	<u>No</u>		
Preservations documented on Chain of Custody?	(Yes)	<u>No</u>		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	(Yes)	No No		
All samples received within sufficient hold time? VOC samples have zero headspace?	Yes	No	Not Applica	hla
Other observations:				
Contact Person: Date/Time: Regarding:	nentatio	n:	Contacted	by:
Corrective Action Taken:				
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			· · · · · · · · · · · · · · · · · · ·	
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### NMG-148C RELEASE SITE

# SOIL REMEDIATION CLOSURE DOCUMENTATION

**UL-N-SE4 of the SW4, Section 16, T19S, R37E / Latitude 32°39'21.32"N - Longitude 103°15'32.90"W ~2.25 miles north northeast of Monument Lea County, New Mexico

DECEMBER 2004

PREPARED BY

ENVIRONMENTAL PLUS, INC. 2100 AVENUE O P.O. BOX 1558 EUNICE, NEW MEXICO



#### Environmental Assessment and Remediation Report

#### Duke Energy Field Services NMG-148 C-Line

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February 1993), and the Environmental Plus, Inc. (EPI) Standard Operating Procedures and Quality Assurance/Quality Control Plan. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental, and/or the natural sciences.

This report was prepared by:	
Lat Marland	
Patrick W. McCasland	Date
This report was reviewed by:	
Iain Olness, PG	Date

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#### 1.0 SUMMARY

In December 2002, Duke Energy Field Services (Duke) retained Environmental Plus, Inc. (EPI) of Eunice, New Mexico to delineate the extent of pipeline fluid contamination and remediate the historical NMG-148 C-Line release site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993). The land is owned by the State of New Mexico. The initial form C-141 submitted to the NMOCD by Duke reported an assumed natural gas pipeline fluid release of >25 barrels (bbls) with 0 bbls recovered. The NMG-148 C-Line is part of the Duke gas gathering system and as such is exempt from the EPA Resource Conservation and Recovery Act 40 CFR (RCRA) Subtitle C hazardous waste characterization requirements. The ground water depth at the site is \$\frac{128}{28}\$ feet below ground surface ('bgs) and is based on water level measurements of a temporary monitor well (MW) installed adjacent to what was believed to be the leak origin. The NMOCD site ranking thresholds for the "Constituents of Concern" (CoCs) in soil are as follows:

Soil from the surface to 28'bgs:

- 100 mg/Kg = Total Petroleum Hydrocarbon EPA method 8015m (TPH^{8015m})
- 10 mg/Kg = Benzene
- 50 mg/Kg = BTEX (mass sum of benzene, toluene, ethylbenzene, and m, o, & p xylenes)

The historical release occurred in the 4" steel NMG-148 C-Line apparently due to corrosion as was evidenced by the line repair clamp. Initially, delineation occurred during excavation of a barren area in the right of way that exposed a previously installed line repair clamp. Subsequent excavation to 10'bgs indicated hydrocarbon contamination. Given the shallow ground water in the area, a temporary monitor/observation well was installed 10 feet west of the clamp, sampling the soil discretely at 5 foot intervals. The bore was found to be contaminated with volatile hydrocarbon, characteristic of raw natural gas pipeline condensate, down to the ground water interface with a measurable thickness of liquid phase hydrocarbon observed atop the ground water. The NMOCD was immediately notified of the impact. The ground water issues are being addressed separately. To delineate the horizontal extent of contamination, sample trenches were excavated to 3'bgs and sampled from the leak origin clamp to various points laterally along the cardinal radians. Volatile Organic Constituent (VOC) headspace surveys of the samples indicated an affected area at 3'bgs of 2,081 ft² and extended 40' north, 30' east, 18' west, and 20' south. The trenches were deepened to 16'bgs sampled and surveyed. At 16'bgs an affected area of 9,082 ft² was identified to be affected, i.e., 76' north, 50' east, 60' west, and 30' south. A site delineation map is included in Attachment I. Selected samples analyzed for TPH^{8015m} and BTEX by Cardinal Laboratories in Hobbs, New Mexico were below instrument detection limits and attest to the volatility of the source term. It also suggests that the VOC headspace readings collected well away from the leak origin clamp during the subsurface delineation were actually due to vapor phase hydrocarbon in the pore space that is dissipating from the liquid phase atop the ground water rather than having been inundated by the condensate liquid similar to the soil beneath the leak origin where the contaminants were adsorbed to the soil. The vapor pressure of the condensate has not been determined. Analyses of hydrocarbon contaminated soil samples from the leak origin did not indicate that sulfate or chloride will be issues at this site.

In February 2003, Environmental Plus, Inc. (EPI), with direction and supervision from Duke Energy Field Services, implemented the <u>Duke NMG-148 C-Line Site Characterization and Soil Remediation Proposal</u>, <u>January 2003</u>. The site characterization information and soil remediation strategies presented in the document should be referenced as a part of this closure proposal. The January 2003 remediation proposal

December 2004

was approved on February 4, 2003 by Mr. William C. Olson, New Mexico Oil Conservation Division (NMOCD) Environmental Bureau Hydrologist with the following stipulations;

- 1. Duke shall take final soil confirmation samples from the bottom and sidewalls of the excavated area for laboratory analysis upon completion of the excavation activities. The samples will be obtained and analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) and total petroleum hydrocarbons (TPH) using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
- 2. Duke shall take final soil confirmation samples for laboratory analysis from every 200 yards of landfarmed soils returned to the excavated area to verify that the soils meet the proposed remediation levels. The samples will be obtained and analyzed for concentrations of BTEX and TPH using EPA approved methods and QA/QC procedures. A field soil vapor headspace measurement of less than 100 ppm may be substituted for a laboratory analysis of BTEX for the purposes of compliance with the proposed BTEX soil remediation limits.
- 3. Duke shall submit a soil remediation report upon completion of the remedial activities. The report shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and shall include:
  - a. A description of the investigation and remediation activities which occurred including conclusions and recommendations.
  - b. Maps showing the locations of all pipelines, excavated areas, landfarmed areas, sample locations and release areas as well as any other pertinent features.
  - c. Summary tables of all soil sampling results and copies of all laboratory analytical data sheets and associated QA/QC data.
  - d. Photographs of the various phases of the remedial activities.
  - e. The disposition of all wastes generated.
  - f. Any other relevant information generated during implementation of the work plans.
- 4. Duke shall notify the OCD at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples.

From February to March 2003, soil contaminated above the NMOCD CoC remedial goals was excavated and shredded to aerate and separate the landfarmable soil from the rock. Volatile Organic Constituent (VOC) headspace survey monitoring was conducted with a calibrated Photoionization Detector (PID) and confirmed with laboratory analyses. The soil and rock were stockpiled on site. The more contaminated soil was spread into a 6" thick lift east of the excavation, tilled weekly, and monitored. Duke received "Right of Entry" permit #707 from the New Mexico State Land Commissioner and allowed for landspreading of contaminated soil for remediation purposes.

In a letter dated October 7, 2004, the NMOCD approved the <u>Duke NMG-148C Line Soil Remediation Status and Closure Proposal</u>, <u>January 2004</u>, with similar soil stipulations and is included in Attachment VI. In October 2004, the closure proposal was implemented consistent with the NMOCD stipulations. The

field surveys and laboratory results for all samples from the excavation sidewalls and every  $200 \text{ yd}^3$  batch of backfill material surveyed in the field and analyzed in the laboratory were less than the CoC remedial goals and were deemed acceptable. This report documents the implementation of the approved plans consistent with the NMOCD stipulations and provides specific soil analytical information supporting closure of the soil issues at this site justifying a "no further action required" declaration by the NMOCD.

#### 2.0 SOIL REMEDIATION

Beginning in February 2003, approximately 18,156 cubic yards (yd³) of soil was excavated, shredded, i.e., rock and soil separated, and aerated. Because the excavation exceeded 20'bgs, a site specific excavation safety plan was developed and approved by a Professional Engineer registered in New Mexico. The volatility of the hydrocarbon source term, breezy days, and the warm daytime temperatures during the project contributed to the attenuation of the soil to acceptable levels. With approval from the NMOCD and the New Mexico State Land Office, soil was landspread in an area east of excavation with the segregated soil and rock stockpiled to the north. A 4-wire barbed wire fence with lockable entrance gate secured(s) the site. Photographs are attached.

With approval from the NMOCD, a landspread area, i.e., 350' x 100', for the more contaminated soil, was established east of the excavation inside of the secured area boundary fence. Approximately 1,500 yd³ of soil was spread and disked at 2 week intervals until attenuated to below the NMOCD remedial goals.

The remaining shredded soil and rock were stored in segregated stockpiles north of the excavation. Testing before and after the shredding process indicated the soil had been adequately remediated and did not require landspreading.

### 3.0 CLOSURE PLAN IMPLEMENTATION DOCUMENTATION

Consistent with the conditions set forth by the NMOCD in February 2003, Duke obtained laboratory samples of the sides of the excavation to confirm achievement of the NMOCD remedial goals for the CoCs, i.e., TPH^{8015m}, benzene, and BTEX. Groundwater precluded a bottom sample. All sampling was conducted in accordance with the EPI Standard Operating Procedures and Quality Assurance/Quality Control Plan. The backfilling process monitored soil Volatile Organic Constituents Headspace (VOCH) of every 200 yd³ of soil as it was being emplaced. The VOCH survey data is being submitted "in lieu" of laboratory benzene and BTEX analyses. Prior to surveying the excavation sidewall and backfill samples for organic vapors, the laboratory samples were jarred and refrigerated. The laboratory reports are provided and summarized in Attachment IV.

A photographic chronolog of the project is provided in Attachment II.

Five-point composite samples were collected from each sidewall in the 28 foot deep excavation on October 22, 2004 from the following vertical locations;

- Center of the sidewall at approximately 14 feet below ground surface ('bgs)
- Lower left quadrant at approximately 20 bgs
- Lower right quadrant at approximately 20'bgs

- Upper left quadrant at approximately 8'bgs
- Upper right quadrant at approximately 8'bgs

The 5-point samples were collected into a clean Ziplock® bag, gently blended and the laboratory sample jarred and refrigerated. The remaining bagged sample was allowed to equilibrate to approximately 70°F and the VOCH measured and recorded.

All samples collected were less than 100 ppm VOCH and deemed acceptable.

Laboratory results from all samples were less than the 100 mg/Kg TPH^{8015m} remedial goal and deemed acceptable.

Discrete samples of each 200 yd³ batch of soil were collected, allowed to equilibrate to approximately 70°F, and the VOCH measured and recorded. The VOCH will be submitted to the NMOCD "in-lieu" of laboratory benzene and BTEX analyses. The laboratory analytical reports are included and summarized in Attachment IV.

All samples collected were less than 100 ppm VOCH and deemed acceptable

Laboratory results from all samples were less than the  $100 \text{ mg/Kg TPH}^{8015m}$  remedial goal and deemed acceptable.

Backfilling begin with emplacement of the rock in the bottom of the excavation and overlayed with the soil. The front-end loaders spread and compacted the matrix in approximately 1-foot thick lifts. After the excavation was backfilled, the clean topsoil stockpiled on site was spread over the area and contoured to grade.

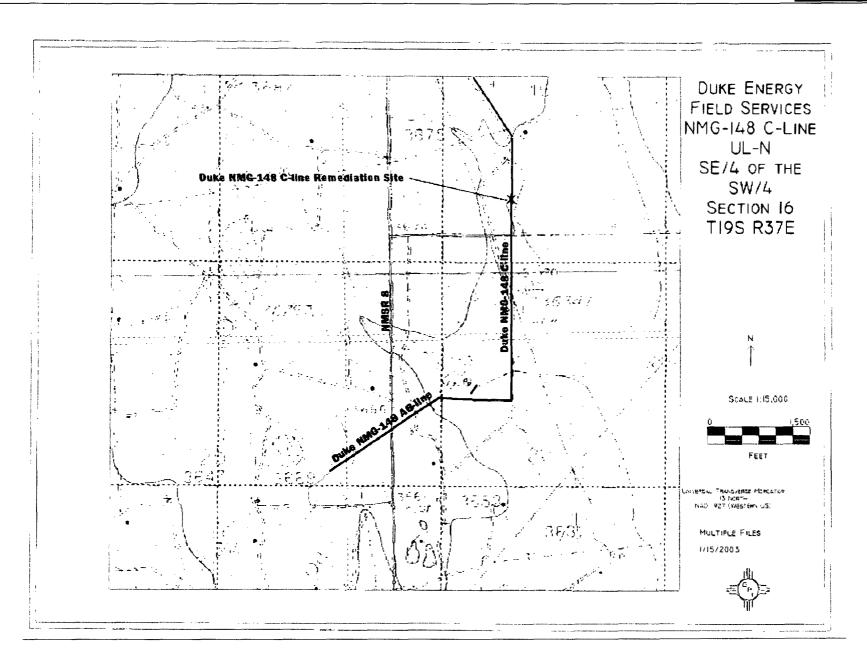
### 4.0 CLOSURE JUSTIFICATION

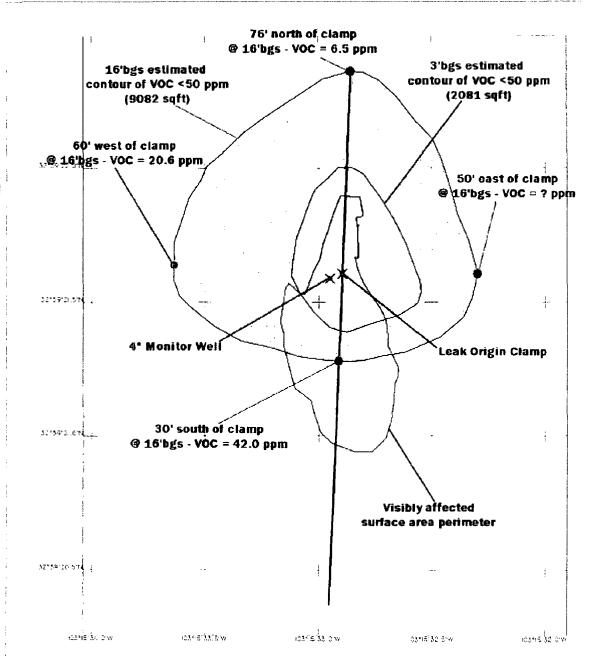
This report documents the implementation of the approved plan consistent with the NMOCD stipulations and provides specific soil analytical information supporting closure of the soil issues at this site justifying a "no further action required" declaration by the NMOCD. The final form C-141 is included in Attachment VII.

#### 5.0 FOLLOW-UP

The site will be reseeded in the spring of 2005 with a seed blend acceptable to the New Mexico State Land Office.







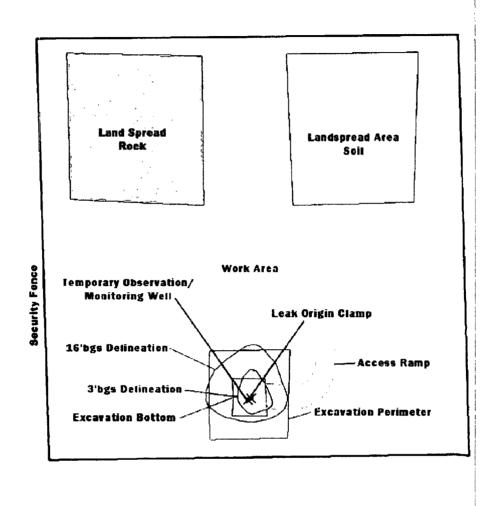
DUKE ENERGY FIELD SERVICES NMG-148 C-LINE (~1.2 MI NORTH OF ELDRIDGE) SW/4 OF SECTION 16 TI9S R37E

DELINEATION MAP - 3' AND 16'BGS

LAT/LONG
WGS 1984

N
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50.00

FLET



## DUKE ENERGY FIELD SERVICES NMG-148 C-LINE SECTION 16 TI9S R37E SITE MAP

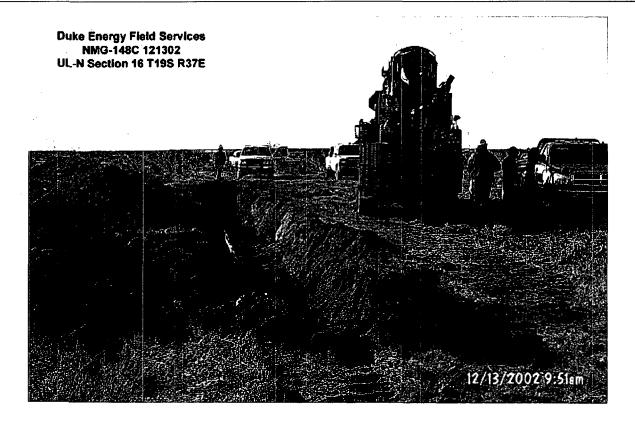
UNIVERSAL TRANSVERSE MERCATOR 15 NORTH NAO 1927 (WESTERN US)



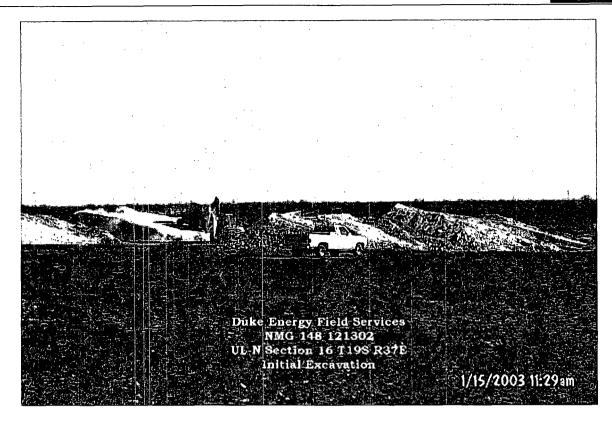
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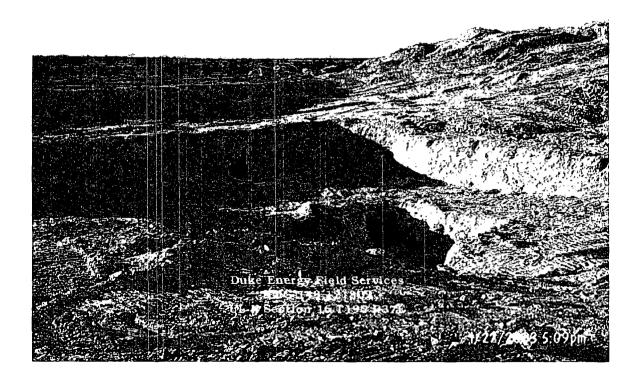




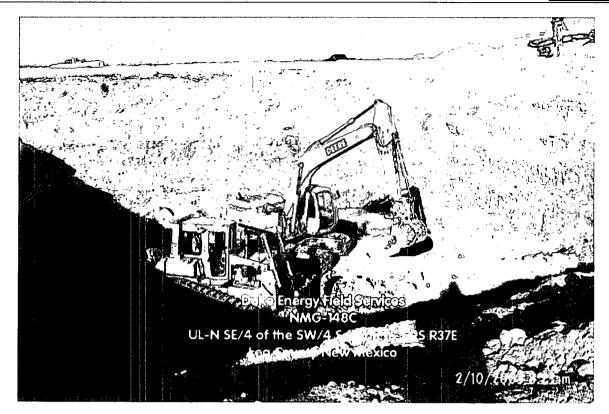


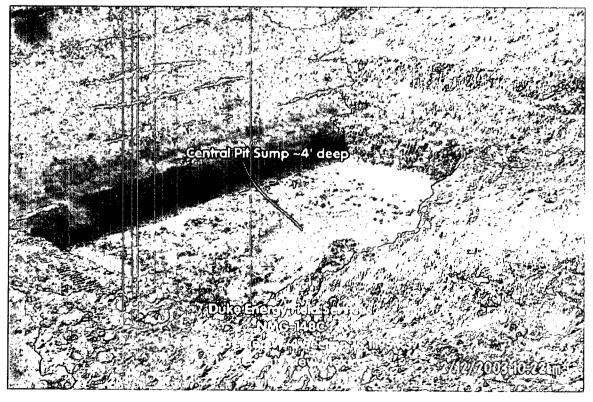


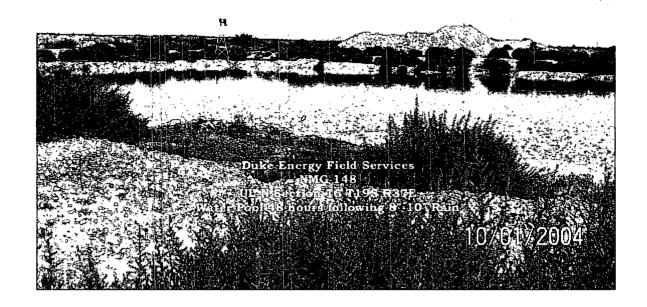


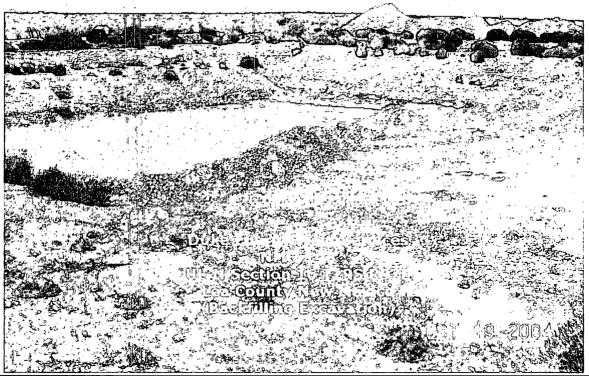




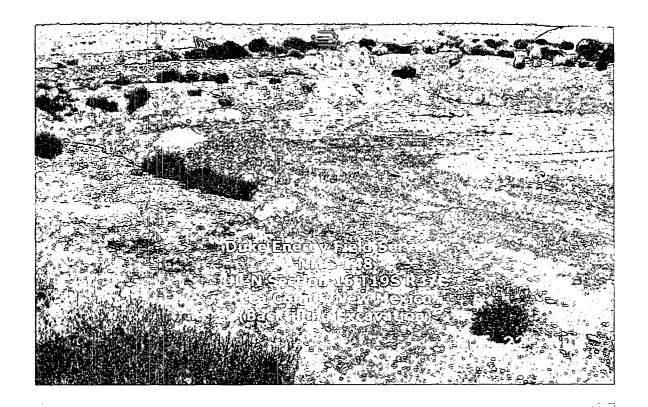


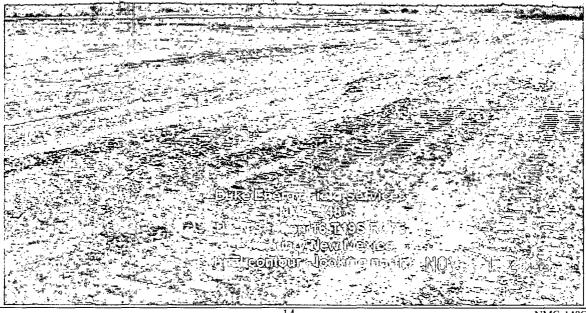












Duke Energy Field Services Site   Incident Date and NMOCD Notified?   12-23-02   NMOCD notified immediately   12-23-03   NMO				
Information and Metrics	Duke Energy Field Services Site	Inci	dent Date and NMOCD Notified?	
SITE: NMG-148 C-Line		12-2	NMOCD notified imm	ediately
Company: Duke Energy Field Services				
Street Address: 11525 West Carlsbad Highway Mailing Address: 11625 West Carlsbad Highway Ciry, Satae, Zip: Hobbs, NM 88240 Representative: Paul Mulkey/Stan Shaver/Ronnie Glichrest Representative: Plephone: 950,599,73716 / 505,397,5961 Telephone: Fluid volume released (bbls): >25 bbls			0	
Mailing Address: 11252 West Carlsbad Highway City, State, Zip: Hobbs, NM 88240 Representative Telephone: 505.397.5716 / 505.397.5561 Telephone: Pluid volume released (bbls): >25 bbls   Recovered (bbls): 0 Telephone: Schools, No. 125 bbls   Recovered (bbls): 0 Telephone: Water Schools, Recovered (bbls): 0 Telephone:	Street Address: 11525 West Carlsbad Hig	hway		
City, State, Zip: Hobbs, NM 88240   Representative: Paul Mulkey/Stan Shaver/Ronnie Gilchrest   Representative Telephone: 505.397.5716 / 505.397.5561   Recovered (bbls): 0				
Representative: Paul Mulkey/Stan Shaver/Ronnie Gitchrest Representative Telephone: Fluid volume released (bbls): >25 bbls	City State Zip: Hobbs, NM 88240	<u> </u>		
Representative Telephone:   505.397.5716 / 505.397.5561   Telephone:	Representative: Paul Mulkey/Stan Shaver/I	Ronnie	e Gilchrest	
Telephone:   Fluid volume released (bbls):   >25 bbls		/ 505	397 5561	
Pluid volume released (bbls): >25 bbls   Recovered (bbls): 0   25 bbls   Norty NMCOL verbally within 24 has and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Cas)	1	, 000		
>25 bbis Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.  Aboa applies to unauthorized releases >500 mcf Natural Gas)  Leak, Spill, or Pit (LSP) Name: NMG-148 C-Line  Source of contamination: Natural Gas Gathering Line  Land Owner, i.e., BLM, ST, Fee, Other:: State of New Mexico leased by Foley  LSP Dimensions -95 'x 40'  LSP Area: 2,536 ft²  Location of Reference Point (RP)  Location of Reference Point (RP)  Location distance and direction from RP  Latitude: 32 "39 "21.32" N  Longitude: 103 "15 "32.90" W  Elevation above mean sea level: 3,648 amsl  Feet from South Section Line  Feet from West Section Line  Feet point of Wa': SEW of the SW ¼ Unit Letter: N  Location-Township: 19S  Location-Township: 19S  Location-Township: 19S  Surface water body within 1000" radius of site: None  Domestic water wells within 1000" radius of site: None  Public water supply wells within 1000" radius of site: None  Public water supply wells within 1000" radius of site: None  Depth from land surface to ground water (DC) -28 bgs  Depth of contamination (DC) -  Depth to GW <50 feet: 20 points  If >1000" from water source, or, >200" from private domestic water source: 20 points  If Depth to GW >100 feet: 0 points  If >1000" from water source: 20 points  If >1000 from water source: 0 points  Orand water Score = 20  Wellhead Protection Area Score = 0  Surface Water Score = 0  Total Site Ranking Score and Acceptable Concentrations  10-19 (surface to 43 bgs)  0-9  Benzene!  10 ppm 10 ppm  5000 ppm			Recovered (bbls): ()	
(Also applies to unauthorized releases > 500 met Natural Gas)  5-25 bibls. Submit form C-141 within 15 days (Also applies to unauthorized releases of 50 500 met Natural Gas)  Leak, Spill, or Pit (LSP) Name: NMG-148 C-Line  Source of contamination: Natural Gas Gathering Line  Land Owner, Le., BLM, ST, Fee, Other: State of New Mexico leased by Foley  LSP Dimensions -95 × 40'  LSP Area: 2,536 ft²  Location of Reference Point (RP)  Location distance and direction from RP  Latitude: 32 * 39 * 21 . 32 * N  Longitude: 10.3 * 15 * 32 . 90 * W  Elevation above mean sea level: 3,648 amsl  Feet from South Section Line  Feet from West Section Line  Feet from West Section Line  Location- Section: 16  Location- Section: 16  Location- Township: 19S  Location- Range: 37E  Surface water body within 1000' radius of site: None  Domestic water wells within 1000' radius of site: None  Domestic water wells within 1000' radius of site: None  Public water supply wells within 1000' radius of site: None  Depth from land surface to ground water (DC) - 28 bgs  Depth of Contamination (DC) -  Bepth to GW < 50 feet: 20 points  If Depth to GW < 50 feet: 20 points  If Depth to GW > 100 feet: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If Depth to GW > 100 feet: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If > 1000' from water source, or; < 200' from private domestic water source: 0 points  If > 1000' from water source, or; < 200' from private domestic water source. 0 points    1000' from water source, or; < 200'		NMO		hin 15 days.
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Source of contamination: Natural Gas Gathering Line	5-25 bbls: Submit form C-14	1 withi	n 15 days (Also applies to unauthorized releases of 50	0-500 mcf Natural Gas)
Land Owner, i.e., BLM, ST, Fee, Other:: State of New Mexico leased by Foley LSP Dimensions ~95 x 40' LSP Area: 2.536 ft² Location of Reference Point (RP) Location distance and direction from RP Latitude: 32 ° 39 ° 21 . 32 ° N Longitude: 10 3° 15 ′ 32 . 90 ° W Elevation above mean sea level: 3.648 amsl Feet from South Section Line Feet from West Section Line Location- South Section Line Location- Section: 16 Location- Section: 16 Location- Section: 19 Location- Valva: Selva of the SW ¼ Unit Letter: N Location- Section: 19 Location- Valva: Selva of the SW ¼ Unit Letter: N Location- Section: 19 Location- Township: 19S Location- Range: 37E  Surface water body within 1000 radius of site: None Domestic water wells within 1000 radius of site: None Public water supply wells within 1000 radius of site: None Public water supply wells within 1000 radius of site: None Depth from land surface to ground water (DG) ~28 bgs Depth of contamination (DC) — Depth to GW <50 feet: 20 points  If Depth to GW <50 feet: 20 points  If Depth to GW <50 feet: 20 points  If Depth to GW >100 feet: 0 points  If De	Leak, Spill, or Pit (LSP) Name: NMG-148	3 C-Li	ne	
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Location- Township: 19S Location- Range: 37E  Surface water body within 1000 'radius of site: None Domestic water wells within 1000' radius of site: None Agricultural water wells within 1000' radius of site: None Public water supply wells within 1000' radius of site: None Depth from land surface to ground water (DG) ~28'bgs Depth of contamination (DC) - Depth to ground water (DG – DC = DtGW) - 0.0  If Depth to GW <50 feet: 20 points	Location- Unit or ¼¼: SE¼ of the SW	1/4	Unit Letter: N	
Surface water body within 1000' radius of site: None	Location- Section: 16			
Surface water body within 1000 ' radius of site: None  Domestic water wells within 1000' radius of site: None  Agricultural water wells within 1000' radius of site: None  Public water supply wells within 1000' radius of site: None  Depth from land surface to ground water (DG) ~28'bgs  Depth of contamination (DC) –  Depth to ground water (DG – DC = DtGW) – 0.0  If Depth to GW <50 feet: 20 points  If <1000' from water source, or; <200' from private domestic water source: 20 points  If Depth to GW >100 feet: 0 points  If >1000' from water source: 20 points  If >1000 horizontal feet: 10 points  Ground water Score = 20  Site Rank (1+2+3) = 20  Total Site Ranking Score and Acceptable Concentrations  Parameter  Parameter  10-19 (surface to 43'bgs)  0-9  Benzene¹  10 ppm  10 ppm  BTEX¹  50 ppm  5000 ppm	Location- Township: 19S			
Domestic water wells within 1000' radius of site: None Agricultural water wells within 1000' radius of site: None Public water supply wells within 1000' radius of site: None Depth from land surface to ground water (DG) ~28'bgs Depth of contamination (DC) – Depth to ground water (DG – DC = DtGW) - 0.0  If Depth to GW <50 feet: 20 points If Depth to GW 50 to 99 feet: 10 points If Depth to GW >100 feet: 0 points If > 1000' from water source: 20 points If > 1000' from water source: 0 points  Fround water Score = 20 Site Rank (1+2+3) = 20  Total Site Ranking Score and Acceptable Concentrations Parameter    10-19 (surface to 43'bgs)   0-9	Location- Range: 37E			
Domestic water wells within 1000' radius of site: None Agricultural water wells within 1000' radius of site: None Public water supply wells within 1000' radius of site: None Depth from land surface to ground water (DG) ~28'bgs Depth of contamination (DC) – Depth to ground water (DG – DC = DtGW) - 0.0  If Depth to GW <50 feet: 20 points If Depth to GW 50 to 99 feet: 10 points If Depth to GW >100 feet: 0 points If > 1000' from water source: 20 points If > 1000' from water source: 0 points  Fround water Score = 20 Site Rank (1+2+3) = 20  Total Site Ranking Score and Acceptable Concentrations Parameter    10-19 (surface to 43'bgs)   0-9				
Agricultural water wells within 1000' radius of site: None Public water supply wells within 1000' radius of site: None  Depth from land surface to ground water (DG) ~28'bgs  Depth of contamination (DC) –  Depth to ground water (DG – DC = DtGW) - 0.0  If Depth to GW <50 feet: 20 points  If Depth to GW 50 to 99 feet: 10 points  If Depth to GW >100 feet: 0 points  If >1000' from water source, or; <200' from private domestic water source; 20 points  If Depth to GW >100 feet: 0 points  If >1000' from water source; 20 points  If >1000 horizontal feet: 0 points  Site Rank (1+2+3) = 20  Total Site Ranking Score and Acceptable Concentrations  Parameter  10-19 (surface to 43'bgs)  Depth to GW >100 horizontal feet: 0 points  10 ppm  10 ppm  10 ppm  50 ppm  TPH  1000 ppm  5000 ppm				
Public water supply wells within 1000' radius of site: None  Depth from land surface to ground water (DG) ~28'bgs  Depth of contamination (DC) –  Depth to ground water (DG – DC = DtGW) - 0.0  If Depth to GW <50 feet: 20 points  If Depth to GW 50 to 99 feet: 10 points  If Depth to GW >100 feet: 0 points  If >1000' from water source, or; <200' from private domestic water source: 20 points  If >1000 horizontal feet: 0 points  If >1000 horizontal feet: 0 points  Ground water Score = 20  Site Rank (1+2+3) = 20  Total Site Ranking Score and Acceptable Concentrations  Parameter  Parameter  10-19 (surface to 43'bgs)  Depth to GW >100 horizontal feet: 0 points  10 ppm  10 ppm  10 ppm  10 ppm  10 ppm  10 ppm  50 ppm  TPH  1000 ppm  5000 ppm	Domestic water wells within 1000' radius o	f site:	None	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				
	Depth from land surface to ground water (	DG)	~28'bgs	
If Depth to $GW < 50$ feet: $20$ pointsIf $< 1000$ ' from water source, or; $< 200$ ' from private domestic water source: $20$ points $< 200$ horizontal feet: $20$ pointsIf Depth to $GW > 50$ to $99$ feet: $10$ pointsIf $> 1000$ ' from water source: $20$ points $> 1000$ horizontal feet: $10$ pointsIf Depth to $GW > 100$ feet: $0$ pointsIf $> 1000$ ' from water source: $0$ points $> 1000$ horizontal feet: $0$ pointsGround water $Score = 20$ Wellhead Protection Area $Score = 0$ Surface Water $Score = 0$ Site Rank $(1+2+3) = 20$ Surface to $0$ Surface $0$ Total Site Ranking Score and Acceptable Concentrations $0$ - $0$ Parameter $0$ - $0$ $0$ - $0$ Benzene $0$ $0$ - $0$ $0$ - $0$ Benzene $0$ $0$ - $0$ $0$ - $0$ BTEX $0$ $0$ - $0$ $0$ - $0$ TPH $0$ - $0$ $0$ - $0$ TO00 ppm $0$ - $0$ $0$ - $0$	Depth of contamination (DC) –			
If Depth to $GW < 50$ feet: $20$ pointsIf $< 1000$ ' from water source, or; $< 200$ ' from private domestic water source: $20$ points $< 200$ horizontal feet: $20$ pointsIf Depth to $GW > 50$ to $99$ feet: $10$ pointsIf $> 1000$ ' from water source: $20$ points $> 1000$ horizontal feet: $10$ pointsIf Depth to $GW > 100$ feet: $0$ pointsIf $> 1000$ ' from water source: $0$ points $> 1000$ horizontal feet: $0$ pointsGround water $Score = 20$ Wellhead Protection Area $Score = 0$ Surface Water $Score = 0$ Site Rank $(1+2+3) = 20$ Surface to $0$ Surface $0$ Total Site Ranking Score and Acceptable Concentrations $0$ - $0$ Parameter $0$ - $0$ $0$ - $0$ Benzene $0$ $0$ - $0$ $0$ - $0$ Benzene $0$ $0$ - $0$ $0$ - $0$ BTEX $0$ $0$ - $0$ $0$ - $0$ TPH $0$ - $0$ $0$ - $0$ TO00 ppm $0$ - $0$ $0$ - $0$	Depth to ground water $(DG - DC = DtG)$	W) - '	0.0	
If Depth to $GW$ 50 to 99 feet: $10 points$ private domestic water source: $20 points$ $200-100 \text{ horizontal feet: } 10 points$ If Depth to $GW > 100 \text{ feet: } 0 points$ If $> 1000'$ from water source, or; $> 200'$ from private domestic water source: $0 points$ $> 1000 \text{ horizontal feet: } 0 points$ $Ground water Score = 20$ $Wellhead Protection Area Score = 0$ $Surface Water Score = 0$ $Site Rank (1+2+3) = 20$ $Surface Water Score = 0$ Total Site Ranking Score and Acceptable ConcentrationsParameter $10-19 \text{ (surface to 43'bgs)}$ $0-9$ Benzene1 $10 \text{ ppm}$ $10 \text{ ppm}$ $BTEX^1$ $50 \text{ ppm}$ $50 \text{ ppm}$ $TPH$ $1000 \text{ ppm}$ $5000 \text{ ppm}$				
If Depth to $GW$ 50 to 99 feet: $10 points$ private domestic water source: $20 points$ $200-100 \text{ horizontal feet: } 10 points$ If Depth to $GW > 100 \text{ feet: } 0 points$ If $> 1000'$ from water source, or; $> 200'$ from private domestic water source: $0 points$ $> 1000 \text{ horizontal feet: } 0 points$ $Ground water Score = 20$ $Wellhead Protection Area Score = 0$ $Surface Water Score = 0$ $Site Rank (1+2+3) = 20$ $Surface Water Score = 0$ Total Site Ranking Score and Acceptable ConcentrationsParameter $10-19 \text{ (surface to 43'bgs)}$ $0-9$ Benzene1 $10 \text{ ppm}$ $10 \text{ ppm}$ $BTEX^1$ $50 \text{ ppm}$ $50 \text{ ppm}$ $TPH$ $1000 \text{ ppm}$ $5000 \text{ ppm}$	If Depth to GW < 50 feet: 20 points	If <	1000' from water source, or;<200' from	<200 horizontal feet: 20 points
If Depth to GW >100 feet: $0$ pointsIf >1000' from water source, or; >200' from private domestic water source: $0$ points>1000 horizontal feet: $0$ pointsGround water $\hat{S}core = 20$ Wellhead Protection Area $Score = 0$ Surface Water $Score = 0$ Site Rank $(1+2+3) = 20$ Total Site Ranking Score and Acceptable ConcentrationsParameter10-19 (surface to 43'bgs)0-9Benzene¹10 ppm10 ppmBTEX¹50 ppm50 ppmTPH1000 ppm5000 ppm				
Private domestic water source: 0 points   Surface Water Score = 0	*			
Ground water $\hat{S}core = 20$ Wellhead Protection Area $Score = 0$ Surface Water $Score = 0$ Site Rank $(1+2+3) = 20$ Total Site Ranking Score and Acceptable ConcentrationsParameter $10-19$ (surface to 43'bgs) $0-9$ Benzene1 $10$ ppm $10$ ppmBTEX1 $50$ ppm $50$ ppmTPH $1000$ ppm $5000$ ppm	If Depth to GW >100 feet: <i>U points</i>			>1000 horizontal feet: 0 points
Site Rank $(1+2+3) = 20$ Total Site Ranking Score and Acceptable ConcentrationsParameter $10-19$ (surface to 43'bgs) $0-9$ Benzene¹ $10$ ppm $10$ ppmBTEX¹ $50$ ppm $50$ ppmTPH $1000$ ppm $5000$ ppm	Ground water Score = 20			Surface Water Score= 0
Total Site Ranking Score and Acceptable Concentrations           Parameter         10-19 (surface to 43'bgs)         0-9           Benzene¹         10 ppm         10 ppm           BTEX¹         50 ppm         50 ppm           TPH         1000 ppm         5000 ppm				I
Parameter         10-19 (surface to 43'bgs)         0-9           Benzene¹         10 ppm         10 ppm           BTEX¹         50 ppm         50 ppm           TPH         1000 ppm         5000 ppm		oncen	trations	
Benzene¹         10 ppm         10 ppm           BTEX¹         50 ppm         50 ppm           TPH         1000 ppm         5000 ppm				0-9
BTEX¹         50 ppm         50 ppm           TPH         1000 ppm         5000 ppm				
TPH 1000 ppm 5000 ppm				
		ent ma		

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Sample Description	SAMPLE ID#	Sample Date	Lithology	HEADSPACE VOC² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ (8015M.) mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ehtyl Benzene mg/Kg	Total Xylenes mg/Kg
Backfill	SDNMG1	10/14/2004	Caliche	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG2	10/14/2004	Caliche	0.1	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG3	10/14/2004	Caliche	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG4	10/15/2004	Caliche	0.0	0.08	nd	0.08	na	na	na	na	na
Backfill	SDNMG5	10/15/2004	Caliche	0.1	0.20	nd	0.20	na	na	na	na	na
Backfill	SDNMG6	10/15/2004	Caliche	0.6	0.14	nd	0.14	na	na	na	na	na
Backfill	SDNMG7	10/15/2004	Caliche	0.1	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG8	10/15/2004	Caliche	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG9	10/15/2004	Caliche	0.0	nd	nđ	nd	na	na	na	na	na
Backfill	SDNMG10	10/15/2004	Caliche	0.4	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG11	10/18/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG12	10/18/2004	Caliche Sand	0.9	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG13	10/18/2004	Caliche Sand	1.2	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG14	10/18/2004	Caliche Sand	0.5	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG15	10/18/2004	Caliche Sand	0.1	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG16	10/18/2004	Caliche Sand	1.5	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG17	10/19/2004	Caliche Sand	0.3	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG18	10/19/2004	Caliche Sand	0.2	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG19	10/19/2004	Caliche Sand	0.9	0.36	nd	0.36	na	na	na	na	na
Backfill	SDNMG20	10/19/2004	Caliche Sand	0.7	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG21	10/19/2004	Caliche Sand	0.1	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG22	10/20/2004	Caliche Sand	0.1	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG23	10/20/2004	Caliche Sand	0.9	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG24	10/20/2004	Caliche Sand	0.1	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG25	10/20/2004	Caliche Sand	0.7	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG26	10/20/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
	New Mexic	o Oil Conservation	Division Remedial Goals	100.0			100.00	50.000	10			

¹bgs – below ground surface

Laboratory analyses were performed by Assaigai Laboratories of Albuquerque, New Mexico

²VOC-Volatile Organic Contaminants/Constituents

³GRO-Gasoline Range Organics (C₆-C₁₀)

⁴DRO-Diesel Range Organics (>C₁₀-C₂₈)

 $^{^5}$ TPH(8015 Mod.)-Total Petroleum Hydrocarbon = GRO+DRO.

⁷nd - not detected above the instrument detection limit.

⁸na - Not Analyzed

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Sample Description	SAMPLE ID#	Sample Date	Lithology	HEADSPACE VOC ² (ppm)	GRO³ mg/Kg	DRO⁴ mg/Kg	TPH ⁵ (8015M.) mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ehtyl Benzene mg/Kg	Total Xylenes mg/Kg
Backfill	SDNMG27	10/21/2004	Caliche Sand	0.7	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG28	10/21/2004	Caliche Sand	0.2	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG29	10/21/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG30	10/21/2004	Caliche Sand	0.1	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG31	10/21/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG32	10/21/2004	Caliche Sand	0.5	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG33	10/22/2004	Caliche Sand	0.3	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG34	10/22/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG35	10/22/2004	Caliche Sand	0.3	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG36	10/22/2004	Caliche Sand	0.0	nd	51.00	51.00	na	na	na	na	na
Backfill	SDNMG37	10/22/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG38	10/22/2004	Caliche Sand	0.3	nd	nd	nd	na	na	na	na	na
East Sidewall	SDNMG39 NSWC	10/22/2004	Caliche	4.6	nd	nd	nd	na	na	na	na	na
West Sidewall	SDNMG40 WSWC	10/22/2004	Caliche	6.0	nd	nd	nd	na	na	na	na	na
North Sidewall	SDNMG41 NSWC	10/22/2004	Caliche	3.6	nd	nd	nd	na	na	na	na	na
South Sidewall	SDNMG42 SSWC	10/22/2004	Caliche	5.8	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10250443	10/25/2004	Caliche Sand	1.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10250444	10/25/2004	Caliche Sand	0.9	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10250445	10/25/2004	Caliche Sand	0.4	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10250446	10/25/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10250447	10/25/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10250448	10/25/2004	Caliche Sand	0.1	nd	nd	nd	na	na	na	na	na
	New Mexico	Oil Conservatio	n Division Remedial Goals	100.0			100.00	50.000	10			

¹bgs - below ground surface

Laboratory analyses were performed by Assaigai Laboratories of Albuquerque, New Mexico

⁷nd - not detected above the instrument detection limit.

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³GRO-Gasoline Range Organics (C₆-C₁₀)

⁴DRO-Diesel Range Organics (>C₁₀-C₂₈)

⁵TPH(8015 Mod.)-Total Petroleum Hydrocarbon = GRO+DRO.

⁸na - Not Analyzed

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Sample Description	SAMPLE ID#	Sample Date	Lithology	HEADSPACE VOC ² (ppm)	GRO³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ (8015M.) mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ehtyl Benzene mg/Kg	Total Xylenes mg/Kg
Backfill	SDNMG10260449	10/26/2004	Caliche Sand	3.7	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10260450	10/26/2004	Caliche Sand	0.7	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10260451	10/26/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10260452	10/26/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10260453	10/26/2004	Caliche Sand	0.7	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10270454	10/27/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10270455	10/27/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10270456	10/27/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10270457	10/27/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10270458	10/27/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10270459	10/27/2004	Caliche Sand	2.9	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10280460	10/28/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10280461	10/28/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10280462	10/28/2004	Caliche Sand	0.9	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10280463	10/28/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10280464	10/28/2004	Caliche Sand	0.5	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10280465	10/28/2004	Caliche Sand	1.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10290466	10/29/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10290467	10/29/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10290468	10/29/2004	Caliche Sand	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10290469	10/29/2004	Caliche Sand	8.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG10290470	10/29/2004	Caliche Sand	0.0	nd	nd	nđ	na	na	na	na	na
Backfill	SDNMG11010471	11/1/2004	Brown Clay Loam	0.0	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG11010472	11/1/2004	Brown Clay Loam	0.3	nd	nd	nd	na	na	na	na	na
Backfill	SDNMG11010473	11/1/2004	Brown Clay Loam	0.0	nd	nd	nd	na	na	na	na	na
	New Mexico	Oil Conservation	n Division Remedial Goals	100.0			100.00	50.000	10			

¹bgs – below ground surface

Laboratory analyses were performed by Assaigai Laboratories of Albuquerque, New Mexico

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³GRO-Gasoline Range Organics (C₆-C₁₀)

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⁵TPH(8015 Mod.)-Total Petroleum Hydrocarbon = GRO+DRO.

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⁸na - Not Analyzed



### ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820 127 Eastgate Drive, 212-C • Las Alamos, New Mexico 87544 • (505) 662-2558

ENVIRONMENTAL PLUS, INC.
attn: PAT McCASLAND
P.O. BOX 1558
EUNICE NM 88231

8	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-5	see footnote

STANDARD

## Assaigal Analytical Laboratories, Inc.

# Certificate of Analysis

Client:	ENVIRO	NMENTA	L PLUS, II	VC.							
Project:	NMG 14	3					*	( )			
Order:	0410577	ENV	03	Receipt: 10-26-04	William	FERFE	ent of Assess	Analysteal Lab	Nationals, In		~~25 mm > 200,000; "X.5
Sample: Metrix:	SDNMG:	<u> </u>		www.www.comerconsection.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/section.com/se	Collected: 10-1	4-04 10:30:0	X By: /	<b>VB</b>	rigo-occor governo-		***************************************
		-						Detection	<b>*</b> 1-	Prop	Run
QC Group	Run	Sequence	CAS#	Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-0	HA		SW846 503	58/80158 GRO by GC/FID				By:	TRS		
X041397	XG.20	104, 1903.6	2000 - Annes and Jan 100 - 100 - 1	Gasoline Range Organics	ND	mg/Kg	1	0.05		10-28-04	10-28-04
0410577-0	HA		SW846 801	56 Diesel Range Organics by	GC/FID			By:	MDE		
X041403	XG 24	104.1922.5		Diesel Range Organics	ND	mg / Kg	1	25		10-29-04	16-29-04
Sample	SDNMG:	<u>;</u>	wmseemer steek of the kink of the Colo	the common productive sections are the company of the common productive sections and the common productive sections are the common productive sections and the common productive sections are the common productive sections and the common productive sections are the common productive sections and the common productive sections are the common productive sections and the common productive sections are the common productive sections and the common productive sections are the common productive sections are the common productive sections and the common productive sections are t	Collected: 10-1	4-04 12:25:0	NO By: /	V8	announced these years		
Matrix:	C										
QC Group	Run	Sequence	CAS#	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prop Date	Run Date
0410577-0	2Å		SW846 503	5B/6015B GRO by GC/FID				Βν:	TRS		
X041397		104.1903.10	<b>******</b>	Gasoline Range Organics	. ND	mg/Kg	1	0.05	ķ	10-28-04	10-28-04
0410577-0	2A		SW846 801	5B Diesel Range Organics by	GC/FID	www.egenor.co.ju ur un tigatto 1990		By:	MDE		
X041403	XG.20	04.1922.8	triani sintitica a come	Diesel Range Organics	ND	mg/Kģ	1	25	:	10-29-04	10-29-04
Sample: Matrix:	SDNMG: C			w entrementation of the general group and a second	Collected: 10-1	4-04 14:00.0	XO By: /	WE			i i i i i i i i i i i i i i i i i
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QC Group	, Run	Sequence	CAS#	Analyte	Result	Units	Factor	Limit	Code	Date	Date
Z	,	Sequence	,,	Analyte	Result	Units	Factor	Limit Bv:	Code	Date	Date

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SQLCoyote: Reports

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REPRODUCTION OF THIS REPORT IN EESS THAN FELL REQUIRES THE WRITTEN CONSENT OF AAL.
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PRODUCT ENDORSEMENT BY THE NATERNAL VILLESTARY EXBORATORY ACCREDITATION PROGRAM.



### Assaigal Analytical Laboratories, inc.

Project:		G 148		L PLUS, IN									
Order:	,	0577	ENV	03	Receipt:	10-26-04							
Sample:	SD	VMG3	··· ••	nga - addition is named account of		ner engen anderskelende fan de eerste allee anders alleen de eerste beskel het.	Cosected: 10-	14-04 14:00:1	00 By: /	WB .			
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QC Group		Run Seq	uence	CAS#		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0410577-0	3A			SW846 801	56 Diese	i Range Organic	s by GC/FID			By:	MDE		
X041403		XG.2004.1	922.8		*********	sel Range Organic	romana, murum kanamananana manama. w	mg/Kg	1	25	· : • : • :	10-29-04	10-29-0
Sample:		NMG4	· · · · · · · · · · · · · · · · · · ·	en andre en			Collected: 10-	15-04 8:30 O	0 By: /	M8	tratidiscoloro, a carregio	warenesser som esterat	gharmanin kummanaga kera - kan
Matrix:	C		edecation of the decade	······································		······································	***************************************					· II/4601/4715444	
									Dilution	Detection		Prep	Run
QC Group		Run Seq	nence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Oate
0410577-0	4A			SW846 503	5B/8015B	GRO by GC/FID	•			By:	TRS		
X041397		XG,2004,1	903.12	000000.00+*** + 4****** + 5**********	puessas incosos, socioliniu erinie	line Range Organ		mg/Kg	1	0.05		10-28-04	10-28-0
0410577-0	44			SW846 801	58 Diese	l Range Organic	s by GC/FID	7140 IMC IA		<b>8</b> y:	MDE		
X0414C3		XG,2004.1	922.10		Reproved Street Annual Co.	sel Range Organic	~ <i>~ ~~</i> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mg/Kg	1	25		10-29-04	10-29-0
rana atau 1951	:			***************************************	*: your control of the control of th	**************************************		Crossocial in the second	***************************************				4
Sample:		NMG5					Collected: 10-	10-04 9:10.04	0 By: /	MB			
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									Dilution	Detection		Prep	Run
QC Group		Run Seq	uence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-0	5A			5W846 503	5 <b>B</b> /8015 <b>B</b>	GRO by GC/FID	•			By:	TRS		
X041397		XG.2004.1	903.13	:	erregeriter management	line Range Organ		mg/Kg	1	0.05	minesatives:	10-28-04	10-28-0
0410677-0	5A			SW846 801	5B Diese	Range Organic	s by GC/FID		***************************************	By:	MDE		
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Sample:		VMG6					Collected: 10-	15-04 9:40:00	O By: /	MB			
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QC Group		Run Seq	uence	CAS#		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
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0410577-0	ë A			CHARLE DAG			or in the second of the second		<u> </u>	************************	kamara sagaga		
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Sample:	SD	VMG7					Collected: 10-	15-04 10:15:0	00 By: 1	MB BM			
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OC Group 0410577-01 X041397		XG.2004.1	ana ir	SW846 503		GRO by GC/FID ine Range Organ		mg/Kg	1	By: 0.05	TRS	10-26-04	10-28-04



### Assaigai Analytical Laboratories, Inc.

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-	04105		ENVC	3	Receipt:	10-26-04							
iample:	SDNM	~~		· 5			Collected: 10-	15-04 10 15:	00 By: /	W8			
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Aatrix:	C			*2×29×298×298×2×2×2×2×2×2×2×2×2×2×2×2×2×2			4.700.000.000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ex-ec:30/50/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2		
									Dilution	Detection	e	Prep	Run
QC Group	R	ın Seque	nce	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-07	Ä			\$W846 80	ISB Diese	l Range Organics b	y GC/FID			<b>б</b> у:	MDE		
XO#1403	X	2004.192	2:16		Dies	sel Range Organica	NO	mg/Kg	1	25		10-29-04	10-29-0
Sample:	SDNM	~0		au .3a arees 1990000	ordon o eminornico ( ) ( ) ( )		Collected: 10-	15-04 12:10:	00 Bv: 1	WB	MACCATON PAR SAME		
		190					www.						
MARIEY.	C				ua Kalamaa , , , mma	**************************************	. 600 5.5000 abronous memoring	······································		(A)	mmon ou záme		
									Dilution	Detection		Prep	Run
QC Group	R	ın Seque	nce	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-08	A			SW846 50:	35B/8015B	GRO by GC/FID				By:	TRS		
K041397		3,2004,190	3.18	······································	905-02-07-03-04-11-17-07-9	dine Range Organics	i ND	mg/Kg	1	0.05	Lum mark 1999	10-28-04	10-28-0
0410577-08	<b>A</b>			SW846 80	tsa Diese	d Range Organics t	w GCÆID			By:	MDE		
X041403		3 2004,192	2.16		e como su region a construir de	sel Range Organics	ND	mg/Kg	1	25		10-29-04	10-29-0
	many many and			100-300-A		200000000000000000000000000000000000000			AA				
Sample:	SDNM	'G9					Collected: 10-	15-04 13:45	оо ву:	WB			
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									Dilution	Detection		Prep	Run
QC Group	R	un Seque	nce	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-09	A			SINGAE EO	SERVENA SE	GRO by GC/FID				By:	TRS		
X041397		3.2004.190	5.18			line Range Organics	i ND	mg/Kg	1	0.05	aguer a gladi Mel-	10-28-04	10-28-0
0410577-09	. A.			CIARLE DO	(CD Diagr	d Range Organics t	w.ccen	······································	***************************************	By:	MDE		
X041403		S.2004.192	2.17	345040 00		sel Range Organics	y GUT D ND	mg/Kg	1	25		10-29-04	10-29-0
				5:					······································				
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									Dilution	Detection		Prep	Run
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		. , : ,								Pos	TRS		
0410577-10 XD41397		3,2004, 190	3.20	SVV846 60		GRO by GC/FID	ND	mg/Kg	1	By: 0.05	INO	10-28-0	10-28-0
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<b>0410577-10</b> X041403		G.2004.192	* **	SW846 80	management of the second of the first	el Range Organics t	by GC/FID ND	o someone con contra		By: 25	MDE	10-29-04	10-29-0
With land	A	3.63/00-126	<b>4.</b> 839		VIB	sel Range Organics		mg / Kg	<u> </u>			,	
Sample:	SDNM	G11			and the second second	***************************************	Collected: 10	18-04 8:00:0	о ву:	W8			
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QC Group	D	un Seque	mes	CAS#		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Date
			er treffi of the form	<b>अपूर्ण कर्या</b> जन्म १९५४ - १९५५	··· · · · · · · · · · · · · · · · · ·	the state of the s	errorella.						
0410577-11				SW846 50	***************************************	GRO by GC/FID			····	Ву	TRS	`	
XQ41397	X	G.2004.180	3.21		Gasc	Ane Range Organic	s ND	mg / Kg	<u> </u>	0.05		10-28-0	10-28-0



### Assaigai Analytical Laboratories, Inc.

Project:	ENVIR	48										
Order:	04105		<b>′</b> 03	Receipt:	10-26-04							
Sample:	SDNM	G11			en al est l'agreement de l'agree en année en de l'agree en année en de l'agree en de l'agree en de l'agree en	Collected: 10-1	18-04 8:00:01	) By: A	AB	mandadada da ara ara ara ara ara ara ara ar		
Aptrix:	С											
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QC Group	R	un Sequence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
410577-1	1A		SW846 801	58 Diesel	Range Organics b	y GC/FID			Ву.	MDE		
(041403	×C	3,2004,1922,19	North Street Street Street Street	Diese	Range Organics	ND	mg / Kg		25		10-29-04	10-29-0
Semple	SDNM	G12		of the state of th	***************************************	Collected: 10-	18-04 9:20:01	O By: A	<b>ZB</b>	***************************************	manager en agence " h	KI CHATHARAN
đạt rix:	C	U,2										
	<b>*</b>		Magazine and a second of the second of	1900		\$ 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	<i>«</i>	F325 - 41 is an	manifest material and	·····	Prep	Run
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0410577-1	- :		SW846 501	agreement and agreement agreement and agreement agreement and agreement agreement and agreement ag	GRO by GC/FID	an eer ne meer 'n 'n 'n de de deel werd belake mee'n word in de deel de	; <b>yy</b>		By:	TRS		
X041397	×c	3.2004:1903.22		Gasoli	se Range Organics	<u> </u>	mg/Kg	1	0.05	· ·	10-28-04	10-28-0
0410577-1			SW845 801	158 Diesel	Range Organics b	y GC/FID	**************************************		By:	MDE		
X041403	X	3.2004.1922.20		Diese	t Range Organics	ND	mg/Kg	1 1	25		10-29-04	10-29-0
Sample:	SONM	IG13	remandentia de l'iller e a eme		and comment of the second of t	Collected: 10-	18-04 10:45	00 By: /	WB			emmento
Matrix:	С											
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77 Passan	. Di	6	C48#		A a a luida	Danudi	Units	Dilution Factor	Detection Limit	Code		Run Date
QC Group	****	un Sequence	CAS #		Analyte	Result	Ottag	TOCKE	Preting.	-		
0410577-1			SW846 50:	raging on two accompanies of	GRO by GC/FID				By:	TRS		
X041397	X	3,2004:1903.23	ge in the one hander works	Gasoli	ne Range Organics	ND ND	mg/Kg	1	0.05	<u> </u>	10-26-64	10-28-0
0410577-1			SW846 80	recommended to the second of t	Range Organics b	All the commence of the commen		agramation of the same	Ву:	MOE		
XD41403	×	3,2004,1822,21	46 - 2004-1000 V 1/4 V 1	Diese	i Range Organics	ND ND	mg/Kg	1	25	<u> </u>	10-29-04	10-29-0
Sample:	SDNM	G14				Collected: 10-	18-04 11:15	00 By: 1	W8	***************************************	manadage dy'n rec'h 1990 (haddiù	WW. WCC 1947104
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		un Rominano	CAS #		Analyta		Inite	Dilution	Detection	Code	F1:0799	
		un Sequence	CAS #		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Date	,
QC Group 0410577-1	- R			rigo colococerentes a estrutura de establica	GRO by GC/FID	Carrier and Carrie	Units	Factor	Umit By:	Code TRS		**
QC Group 0410577-1	- R	un Sequence 3.2004 1903 24		rigo colococerentes a estrutura de establica		Rosult	Units mg/Kg		Umit		Date 10-28-04	**
QC Group 0410577-1- X041397	R 4A		SW848 50:	Gasoli	GRO by GC/FID	ND	on promote comme	Factor	Umit By:			**
QC Group 0410577-1 KD41397 0410577-1	4A X0		SW848 50:	Gasoli 158 Diesel	GRO by GC/FID ne Range Organics	ND	on promote comme	Factor	Limit By: 0.05	TRS		16-28-0
QC Group 0410577-1- 0410577-1- 0410577-1- XO41403	4A X0	3.2004.1903.24	SW848 50:	Gasoli 158 Diesel	GRO by GC/FID ne Range Organics Range Organics b	ND y GC/FID ND	mg/Kg	Factor	Limit  By: 0.05  By: 25	TRS	10-28-04	16-28-0
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QC Group 0410577-1- K041397 0410577-1- K041403 Sample;	4A X4 4A X4 5DNM	3.2004.1903.24	SW848 50:	Gasoli 158 Diesel	GRO by GC/FID ne Range Organics Range Organics b	ND y GC/FID ND	mg/Kg	Factor	Limit  By: 0.05  By: 25	TRS	10-28-04	16-28-0
QC Group 0410577-1- 0410577-1- 0410577-1- 041403 Sample: Matrix:	AA XO	3.2004.1903.24	SW848 50:	Gasoli 158 Diesel	GRO by GC/FID ne Range Organics Range Organics b	ND y GC/FID ND	mg/Kg	Factor	Limit  By: 0.05  By: 25	TRS	10-28-04	16-28-0
QC Group 0410577-1- k041397 0410577-1- k041403 Sample: Matrix:	4A X0 4A X0 SDNM C	3.2004 1903.24 3.2004 1922.22	SW846 80-	Gasoli 15B Diesel Diese	GRO by GC/FID ne Range Organics Range Organics but Range Organics Analyte	ND y GC/FID ND Collected: 10-	mg / Kg mg / Kg 18-04 12:40:1	Factor  1  00 By:  Dilution	Limit  By: 0.05  By: 25  M6  Detection Limit	MDE	10-28-04 10-29-04 Prep	16-26-0 10-29-0
QC Group 0410577-1- K041397 0410577-1- K041403 Sample;	AA XO SDNM C	3.2004 1903.24 3.2004 1922.22	SW846 80-	Gasoli 15B Diesel Diese	GRO by GC/FID ne Range Organics Range Organics b Il Range Organics	ND y GC/FID ND Collected: 10-	mg / Kg mg / Kg 18-04 12:40:1	Factor  1  00 By:  Dilution	Limit By: 0.05 By: 25 Limit Detection	MDE	10-29-04 10-29-04 Prep Date	16-28-0 16-29-0 Run



### Assalgai Analytical Laboratories, Inc.

Project:	ENVIRONM NMG 148	20.00										
Order:	0410577	ENV	03	Receipt:	10-26-04							
Sample:	SDNMG15	***************************************				Collected: 10-	8-04 12:40	00 By: /	WB			
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			and states of all and a	4 MP - ENG	5 Panama Panamakan I	ocem			By:	MDE		
0410577-18 XB41403	SA XG,2004.	1999 28	SW846 80	aryan :aran paik ee a wax a	I Range Organics sel Range Organics	ND ND	mg/Kg	1	25	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10-29-04	10-29-0
	A-0-40-40-40-40-40-40-40-40-40-40-40-40-4					enema e ventado que ana arrela (1998). Las estas estas especiales estas en el comunidad en estas en estas en el comunidad en el comunidad en el comun			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			ja meneralas escentes, es a
Sample:	SDNMG16					Collected: 10-	18-04 15:05:	00 By: I	W8			
<b>Watrix</b>	C	Contract to supply a					n men nyanggapan si Ministrikan di dalah di menerinan	n. nonen en egaptention	www.eleth.eleth.eleth.ele	. 19010000000000000000000000000000000000		
								Dilution	Detection		Prep	Run
QC Group	Run Se	quence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-16	•		CUMBAR ER	460 <i>0</i> 00460	GRO by GC/FID				Ву:	TRS		
X841402	XG,2004.	1913.9	344040.00		line Range Organic	OM e	mg/Kg	***************************************	0.25		10-29-04	10-29-0
0410577-10	• 4		CIMO4E DA		l Range Organics	OOOD TO THE	······································	nimo, m. m. m. 1997	By:	MOE		
041403 X041403	XG,2004.	1922.24	2410-10 00		sel Range Organics	ND	mg/Kg	1	25		10-29-04	10-29-0
1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 1988, 19	***************************************					•• •••••••••••••••••••••••••••••••••••	and a second	·	***************************************		INI×1	
Sample:	SDNMG17					Collected: 10-	19-04 8:16:0	0 By: /	MB			
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								Dilution	Detection		Prep	Run
QC Group	Run Se	quence	CAS #		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-1	7A		SW846 50	35B/8015B	GRO by GC/FID				By:	TRS		
X041402	XG,2004	1913,10	£		line Range Organic	s ND	mg / Kg	1	0.25		15-29-04	10-29-0
0410577-1	7A		SW846 80	158 Diese	I Range Organics	by GC/FID			By:	MOE		
X041403	XG,2004	1922,27	A THE CONTRACTOR OF A PROCE	and a comment	sel Range Organics	20000000000000000000000000000000000000	mg/Kg	1	25		10-29-04	10-29-0
Gamenta.	00111040			***************************************		Collected: 10-	19-04 9-38-0	0 By:	M8			
Sample:	SDNMG18					Courses in	(3.04 B.30.0	y og.	POL:			
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								Dilution			Prep	Run
QC Group	Run Se	quence	CAS#		Analyto	Result	Units	Factor	Limit	Code	Date	Date
0410577-11	8A		SW846 50	35B/8015B	GRO by GC/FID				Ву:	TRS		
XD41402	XG.2004.	1913.11	and the second second second	Gase	line Range Organic	s ND	mg/Kg	1	0.25		10-29-04	10-29-0
0410577-11	BA		SW846 80	158 Diese	l Range Organics	by GC/FID		,,,	8y:	MOE		
X041403	XG.2004	1922.28			sel Range Organics	magazione è communicationem	mg/Kg	1	25		10-29-04	10-29-0
Sample:	SDNMG19					Collected: 10-	10.04 11:20	00 Bu-	M8			AND TO THE PARTY OF
Metrix:	C					wallestera ( )						
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			****				9 A bu''.	Dilution		***	Prep	Run
QC Group	Run Se	quence	CAS #	s +	Analyte	Result	Units	Factor	Limit	Code	Date	Date
			SW846 50	358/60158	GRO by GC/FID				By:	TRS		
0410677-1	ea.											
0410677-1: X041402	XG.2504.	1913,12		Gasc	iline Range Organic	a 0.35	mg/Kg		0.25		10-29-04	10-29-0



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### Assaigei Analytical Laboratories, Inc.

Project:	NM	G 148											
Order:	041	0577	ENV	03	Receipt	10-26-04							
Sample:	SD	NMG19		TOTAL SEAL AND SELECT	5 1 CMC   OC 3400 54300	20 - 20 min - 17 - 186 - 18 chi - 18 chi m	Collected: 10-	19-04 11:20:1	00 By: /	AB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~;~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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e e e e e e e e e e e e e e e e e e e	V								Dilution	Detection		Prep	Run
QC Group		Run Sequ	ence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-19	6.0			91W946 954	ER Disea	l Range Organics	N GC/FIN			By:	MDE		
X041403	ur.	XG 2004,190	22,2 <del>8</del>		******************	el Range Organics	mingran man was got the	mg/Kg	. 1	25	www.warbaaw.	10-29-04	10-29-04
and oreal section at a			***************************************				Collected: 10-	10.04.12.20	00 8.6	M8	······································	era (a reje and a seem at re	
Sample:		NMG20					Conscisso. 70-	18-04 (3.30.t	uru ay. s	PACI			
Mestrix:	C	100.261 ##1#A				vi.v						····	······································
									Dilution	Detection			Run
QC Group	6.5 15	Run Sequ	ence	CAS #		Analyte	Result	Units	Factor	Umit	Code	Date	Date
0410577-20	DA			SW846 503	58/80158	GRO by GC/FID			an en manual barra and the	Ву:	TRS		
X041402		XG.2004;19	13,13		Gaso	line Range Organis	cs ND	mg/Kg		D.25	: > / conservers."	10-29-64	10-29-04
0410577-20	AQ			SW846 B01	58 Diese	l Range Organics	by GC/FID			8у:	MDE		
X041403		XG.2004.1%	22,30		Dies	sel Range Organics	s ND	mg/Kg		25	<u></u>	10-29-04	10-29-0-
Sample:	SO	NMG21	ne i vide renes es a	h da door washing will was a week . co		er	Collected: 10-	19-04 15:12:1	DO By. I	иВ	dalaalaha eeg	Professional Control of the Control	1411 AM - 1 1111 AM
Matrix:	C												
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QC Group		Run Sequ	ence	CAS#		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
		,											
0410577-21 X841482	1A	XG 2004,19	13. 15.	SW846 503		GRO by GC/FID line Range Organia	cs ND	mg/Kg	1 1	Ву: 0.25	TRS	10-29-84	10-29-04
	2.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	771.7		in	Harteste Aden an areath an discomplished and	dagaganaanaan jarahay 21 - 17 you 1900 bo				4 ***		
0410577-21 X041494	1A	XG.2004, 190	24.6	5VV846 BO1	garan mananan	l Range Organics Lei Range Organics	The second secon	mg / Kg	1 1	By: 25	MDE	11-01-04	11-01-04
Second Contract Contractions				J,				andministration					
Sample:		NMG22				•	Collected: 10-	20-04 8:16:00	o Bry: /	WB			
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									Dilution	Detection		Prep	Run
QC Group		Run Sequ	ence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-22	2A			SW846 503	58/80158	GRO by GC/FID				Ву	TRS		
X841402		XG.2004.19	13.16		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	line Range Organia	cs ND	mg/Kg	1	0.25	T	10-29-04	10-29-04
0410577-22	2A			SW846 801	58 Diese	l Range Organics	by GC/FID			Ву:	MDE		
XD41414		XQ.2004.193	24.9	L	, 11,41.11.1	sel Range Organics		mg / Kg	1	25	3	11-01-04	11-01-04
Sample:	<u>ел</u>	NMG23		***************************************		······································	Collected: 10-	20-04 9:38:0	0 Byc /	ИÐ			,
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AA A		A		,				42		Detection	O		Run
QC Group		Run Sequ	ence	CAS #		Analyte	Result	Unite	Factor	Limit	Code	Date	Date
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0410577-2: XO41402													



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	NMG 1	I 4443										
Order:	04105	77 E	IV03	Receipt:	10-26-04							
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Matrix:	C											
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QC Group	R	un Sequen	æ CAS	2	Analyte	Result	Units	Factor	Limit	Code		Date
		encere Extra	Atamue.	****** ****					By:	MDE		
0410577-2 XB41414		S.2004.1924.	15 1 6 700 6 700 70 700 700	manus agrees a contract to the contract to	il Range Organics b sel Range Organics	y GCFID NO	mg/Kg	•	25	SAMPLE	11-01-04	11-01-0
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Sample:	SDNM	IG24				Collected: 10-2	10-04 11:20:1	10 ву: 1	MB			
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								Dilution	Detection			Run
QC Group	R	un Sequen	e CAS	<b>*</b>	Analyte	Result	Units	Factor	Limit	Code	Oate	Date
0410577-2	4A		SW846	5035B/8015B	GRO by GC/FID				By:	TRS		
X041402	X	3.2004.1913.	8	Gası	aline Range Organics	NO	mg / Kg		0.25	series and	10-29-04	10-29-0
0410577-2	4Ă		SW846	8015B Diesi	ıl Range Organics b	y GC/FID			By:	MDE		
X041414	X	3.2004.1924,	11	Die	sel Range Organics	ND	mg/Kg	1	25	· ••••••••••••••••••••••••••••••••••••	11-01-04	11-01-0
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Matrix	C											
Matrix	C	**************************************	·····	s compression and the second		constantion were assumed to the second	······································			y gas e responsee emerme.		
n penggan ngga dinina.		im Samen			Ansivie	e serial angular series	Unite:	Dilution Factor		Code	Prep Date	Run Date
QC Group		un Sequen			Analyte	Result	Units	Dilution Factor	Limit	Code		
QC Group 0410577-2	R SA	err i Tega	SW846	5035B/80156	GRO by GC/FID	Result		Factor	Limit By:		Date	Date
QC Group 0410577-2 X041402	R SA	un Sequen G 2004 1915	<u>5W846</u>	5035B/8015i Gas	GRO by GC/FID offine Range Organics	Result	Units mg/Kg		Limit By: 0.25	TRS		Date
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QC Group 0410577-2 X041402	R 5A X	err i Tega	SW846 8 SW848	5035B/8015E G49/ 8015B Dies	GRO by GC/FID offine Range Organics	Result		Factor	Limit By: 0.25	TRS	Date	Date 10-29-0
QC Group 0410577-2 XX41402 0410577-2	R 5A X	G.2004.1915. G.2064.1924.	SW846 8 SW848	5035B/8015E G49/ 8015B Dies	B GRO by GC/FID bline Range Organics of Range Organics b	Result ND Y SCIFID	mg/Kg mg/Kg	Factor	Limit By: 0.25 By:	TRS	Date 10-29-04	Date 10-29-0
QC Group 0410577-2 X041402 0410577-2 X041414	R	G.2004.1915. G.2064.1924.	SW846 8 SW848	5035B/8015E G49/ 8015B Dies	B GRO by GC/FID bline Range Organics of Range Organics b	Result ND y GC/FID ND	mg/Kg mg/Kg	Factor	Limit By: 0.25 By: 25	TRS	Date 10-29-04	Date 10-29-0
QC Group 0410577-2 X041402 0410577-2 X041414 Sample:	EA XI	G.2004.1915. G.2064.1924.	SW846 8 SW848	5035B/8015E G49/ 8015B Dies	B GRO by GC/FID bline Range Organics of Range Organics b	Result ND y GC/FID ND	mg/Kg mg/Kg	Factor	Limit By: 0.25 By: 25	TRS	Date 10-29-04	Date 10-29-0
QC Group 0410577-2 X041402 0410577-2 X041414 Sample:	RESA XI	G.2004.1915. G.2064.1924.	SW846 SW848	5035B/8015B Gas 8015B Dies Die	B GRO by GC/FID bline Range Organics of Range Organics b	Result ND y GC/FID ND	mg/Kg mg/Kg	Factor	Limit By: 0.25 By: 25	TRS	10-29-04 11-01-04	10-29-0 11-03-0
QC Group 0410677-2 XD41402 0410677-2 XD41414 Sample: Matrix: QC Group	R XI	G.2004.1913. G.2004.1924.	SW846 SW846 2	5035B/8015E Gaa 8015B Diesi Die	GRO by SC/FID bline Range Organics at Range Organics be sel Range Organics Analyte	Result  ND  y GC/FID  ND  Collected: 10-2	mg / Kg   mg / Kg   20-04 15:00	Factor  1 200 By:	Limit  By: 0.25  By: 25  ME  Detection Limit	MOE	10-29-04 11-01-04	10-29-0 11-01-0
QC Group 0410577-2 XX41402 0410577-2 XX41414 Sample: Matrix:	R XIIII X XIII X X X X X X X X X X X X X	G.2004.1913. G.2004.1924.	SW846 SW848 2 2 CAS SW846	5035B/8015E Gasa 8015B Dies Die 5035B/8015E	3 GRO by GC/FID bline Range Organics at Range Organics b sel Range Organics	Result  ND  y GC/FID  ND  Collected: 10-2	mg / Kg   mg / Kg   20-04 15:00	Factor  1 200 By:	Limit By: 0.25 By: 25 MB	TRS MDE	10-29-04 11-01-04	10-29-0 11-01-0 Run Date
QC Group 0410577-2 XD41402 0410577-2 XD41414 Sample: Matrix: QC Group 0410577-2	R XIII XIII XIII XIII XIII XIII XIII XI	G 2004 1915. G 2004 1924. IG26	SW846 SW848 SW848 SW846	5035B/8015E Gas 8015B Diese Die 5035B/8015E Gas	Analyte  3 GRO by GC/FID  3 GRO by GC/FID  Analyte  3 GRO by GC/FID  Sine Range Organics	Result  ND  ND  Collected: 10-2  Result	mg / Kg mg / Kg rmg / Kg 20-04 15:00	1 1 200 By: Dilution Factor	Limit By: 0.25 By: 25 Z5 Me Detection Limit By:	TRS MDE	10-29-04 11-01-04 Prep Date	10-29-0 11-01-0 Run Date
QC Group 0410577-2 X041402 0410577-2 X041414 Sample; Matric; QC Group 0410577-2 X041402	REA XI SDNM C C REGA XI	G 2004 1915. G 2004 1924. IG26	SW846 SW848 2 CAS SW846 SW846	5035B/8015B  8015B Diese Die G  5035B/8015B  Gase 8015B Diese	GRO by GC/FID oline Range Organics of Range Organics of Range Organics and Range Organics Analyte	Result  ND  ND  Collected: 10-2  Result	mg / Kg mg / Kg rmg / Kg 20-04 15:00	1 1 200 By: Dilution Factor	Limit By: 0.25 By: 25 ME Detection Limit By: 0.25	TRS MDE	10-29-04 11-01-04 Prep Date	10-29-0 11-01-0 Run Date
QC Group 0410677-2 XD41402 0410677-2 XD41414 Sample: Matrix: QC Group 0410577-2 XD41402	R XIII XXIII	G.2004.1915. G.2004.1924. IG26 Suri Sequen G.2004.1913.	SW846 SW848 2 CAS SW846 SW846	5035B/8015B  8015B Diese Die G  5035B/8015B  Gase 8015B Diese	Analyte  3 GRO by GC/FID  5 GRO by GC/FID  5 GRO by GC/FID  5 GRO by GC/FID	Result  ND  y GC/FID  Result  Result  ND	mg / Kg mg / Kg 20-04 15:00 Units mg / Kg	Factor  1 1 200 By: Dilution Factor	Limit By: 0.25 By: 25  Detection Limit By: 0.25 By: 25	TRS MDE	10-29-04 11-01-04 Prep Date	10-29-0 11-01-0 Run Date
QC Group 0410577-2 X041402 0410577-2 X041414 Sample: Maurix: QC Group 0410577-2 X041402 0410577-2 X041414 Sample:	R XI SDNM C R SGA XI SDNM SDNM	G.2004.1915. G.2004.1924. IG26 Suri Sequen G.2004.1913.	SW846 SW848 2 CAS SW846 SW846	5035B/8015B  8015B Diese Die G  5035B/8015B  Gase 8015B Diese	Analyte  3 GRO by GC/FID  5 GRO by GC/FID  5 GRO by GC/FID  5 GRO by GC/FID	Result  ND  ND  Collected: 10-2  Result  ND	mg / Kg mg / Kg 20-04 15:00 Units mg / Kg	Factor  1 1 200 By: Dilution Factor	Limit By: 0.25 By: 25  Detection Limit By: 0.25 By: 25	TRS MDE	10-29-04 11-01-04 Prep Date	10-29-0 11-01-0 Run Date
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QC Group 0410577-2 X041402 0410577-2 X041414 Sample: Maurix: QC Group 0410577-2 X041402 0410577-2 X041414 Sample:	R XIIII XXIII XXIIIXXII XXXIII XXIII XXIII XXIII XXIII XXIII XXIII XXIII XXIII XXIII	G.2004.1915. G.2004.1924. IG26 Suri Sequen G.2004.1913.	SW846 SW846 SW846 SW846 SW846	\$035B/8015E Gata 8015B Dies Die 5035B/8015E Gas 8015B Dies	Analyte  3 GRO by GC/FID  5 GRO by GC/FID  5 GRO by GC/FID  5 GRO by GC/FID	Result  ND  y GC/FID  Result  Result  ND	mg / Kg mg / Kg 20-04 15:00 Units mg / Kg	Factor  1  1  20 By:  Dilution Factor  1  1  1  By:	Limit By: 0.25 By: 25 Detection Limit By: 0.25 By: 25	TRS MDE	Prep Date 10-29-04 11-01-04	10-29-0 11-01-0 Run Date 10-29-0 11-01-0
QC Group 0410577-2 X041402 0410577-2 X041414 Sample: Matrix: QC Group 0410577-2 X041402 0410577-2 X041404 Sample: Matrix:	R R XI SDNM C C SDNM C C SDNM C C R	G.2004.1915. G.2004.1924. IG26 G.2004.1913. G.2004.1913.	SW846 SW846 SW846 SW846 SW846 CAS	5035B/8015E Gate 8015B Diese Die 5035B/8015E Gate 5035B/8015E Gate 8015B Diese	Analyte  GRO by GC/FID  Jane Range Organics  Analyte  GRO by GC/FID  Jane Range Organics  Analyte  Range Organics  Analyte  Range Organics  Range Organics  Range Organics  Range Organics	Result  ND  y GC/FID  ND  Collected: 10-2  Result  ND  ND  Collected: 10-2	mg / Kg mg / Kg 20-04 15:00: Units mg / Kg 21-04 7:30:0	Factor  1  100 By:  Dilution  1  Dilution	Limit By: 0.25 By: 25 ME Detection Limit By: 0.25 By: 25 MG	TRS MDE TRS Code TRS	10-29-04 11-01-04 Prep Date 10-29-04 11-01-04	10-29-0 11-01-0 Run Date 10-29-0 11-01-0



### Assaigai Analytical Laboratories, Inc.

Project:	NW	G 148											
Order:	041	0577	ENV	03 R	eceipt:	10-26-04							
Sample:	SD	NMG27	21 102 2 20 Min con	C 2000000000000000000000000000000000000		- April - Agreement	Collected: 10-2	1-04 7:30:00	) By: /	<b>//</b> 8	contribution of the contribution of	Carlo Carlo Carlo Carlo	
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									Dilution	Detection		Prep	Run
QC Group		Run Seq	uence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
1410577-2	7A			SW846 8015	3 Diesel	Range Organics	by GC/FID			By:	MDE		
0041414		X/3.2004.1	924.16		Dies	el Range Organics	NO.	mg / Kg		25	b-manage by resident	11-01-04	11-01-0
Semple:	SD	NMG28	***************************************			agraph control tage of the transfer of	Collected: 10-2	1-04 9:12:00	) By: /	<b>46</b> .	i dis con decem desse desse s	TARREST COMMENSAGE TO S	v a register er om
<b>Visitri</b> x	C												
e	, assource +	og e e e e e e . e . e .	America American		***************************************		The second secon	-00-0	Dilution	Detection	ARREST STATE CONTRACT SECOND	Preo	Run
QC Group		Run Seq	uence	CAS Ø		Analyte	Result	Umits	Factor	Limit	Code	Date	Date
				MILIT IS SASE	****	CO. L. CO.		* * * * * * * * * *		By:	TRS		
0410577-21 K041402	BA.	XG.2004.1	913.22	344049 30331	an variouina.m.	GRO by GC/FID ine Range Organic	s NO	mg/Kg	1	0.25	1113	10-29-04	10-29-6
0410577-2	a x			CIMPAT ORACI	at an an an hap-se-	en orono o constituire de Torino mante	mango enero cuelharecamen a a racca. Sara su a sucema		<u> </u>	By:	MDE		
KB41414	GA.	XG.2004.1	924, 17	341040 0410	mini makawanayaka	l Range Organics el Range Organics	and a continue of the second	mg / Kg	1	25	(4 Ka-16ka)	11-01-04	11-01-0
	************								in and the second			v	v v
Sample:		NMG29					Collected: 10-2	7-04 10(47)	OO BY: A	MB			
<b>Watrisc</b>	C	widow water		and processing the free gas processings.			· · · · · · · · · · · · · · · · · · ·			v			
									4				Run
QC Group		Run Seq	uence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410677-2	9A			SW846 5035	3/801513	GRO by GC/FID				By:	TRS		
KD4 1402		XG.2004.1	913:23		Gasol	line Range Organic	s ND	mg / Kg		0.25	i.	10-29-04	10-29-0
0410677-2	9A			SW846 8015	manufacture of the control	Range Organics	Management comments comment comments comments comments			By:	MDE		
X041414		XG.2004.1	924.18		Dies	el Range Organica	NO _	mg / Kg	1	25	A	11-01-04	11-01-0
Sample:	SD	NMG30			' '	·	Collected: 10-2	1-04 12:45	00 By: 1	WB BB	***************************************	www.dirivitiabenal.comerco	y
Matrix:	C												
									Dilution	Detection	vinethalloundennandenny	Prep	Run
QC Group	<b>;</b>	Run Seq	uence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0.440ETT %	MΑ			Ø141038 EN4E	2.004 ED	ABO M. OCIEID				By:	TRS		
0410577-3: XD41402	UM	XG.2004.1	913.24	244040 00301		GRO by GC/FID ine Range Organic	s ND	mg / Kg	1	0.25	ino	10-29-04	10-29-0
M10577-3	ňá	•		CHIDAE DAVE		***************************************		· · · · · · · · · · · · · · · · · · ·	in a superior superior was	By:	MDE		
M 1407 1-31 KD41414	UM	XG.2004.1	<b>924.19</b>	244040 00 121	·	l Range Organics el Range Organics	G 1549 6000 topo menorana managamenta	mg / Kg	1	25	MLAC	11-01-04	11-01-0
					Comment of the commen						.,,	madada da sana	
Sample:		NMG31					Collected: 10-2	( <b>7-04</b> 13/33)	oo ey: A	MB			
Vatrix;	C	madeider is vers met met	ntive/m remet rivigo go			1892 , 1911 1825 A. A. G. A.			and the second	···	optometrometromer et e	***************	manara ay a, e aya ya, j
										Detection		Prep	Run
QC Group		Run Seq	uence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
3410577-3	14			SW846 5035	B/8015B	GRO by GC/FID				Ву:	TRS		
M 16311-7						line Range Organic	s ND	mg/Kg	1	0.5			10-30-0



### Assaigal Analytical Laboratories, inc.

Project:	NMG 148											
Order:	0410577	ENV03	) F	Race of	10-26-04							
Sample:	SDNMG31				et at the etchemical or ex	Collected: 10-2	11-04 13:33	00 By: 1	<b>//8</b>			
Matrix:	С											
	I MANUAL AND STREET, AND					(* * . )	### ##################################	Dilution	Detection	M. 2000000000	Preo	Run
QC Group	Run Seq	uence	CAS #		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-3	**		1440.4E 801E	D Niore	Range Organics I	rv GCÆID			By:	MDE		
K041414	XG,2004, 1	1000	122020 0010	and a second section of	el Range Organics	ND	mg/Kg	1	25		11-01-04	11-01-0
	001111000		- Coproduct and a construction of the construc			Collected: 10-2	24.04 44.6E	nn Bir I	VB			
Sample: Matrix	SDNMG32 C					Concutou, 10-2	S KLIPOLIK ELIKYPINOKI	w. w	· ·			
	oko okomovazem	***************************************	***************************************						**************************************	2861 Aug 1 1279	(3), estimations	
00 C	. O 6		C40 B		Kai aliika	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
QC Group	Run Soq	ociice:	CAS#	1. 1471 12	Analyte	Kesuk	CHINA	Catalos	ETIEISS.		- 1	
0410577-3		-	W846 5035	·	GRO by GC/FID				By.	TRS		
X043406	XG.2004:1	921,6		Gaso	Ine Range Organics	s NO	mg/Kg	1 1	0.5	د المنسان المشا	10-30-04	10-30-0
0410577-3			W846 8015		Range Organics I	management in the company of the com		· ** *********************************	Ву	MOE		
XD41414	XG.2004.1	924.21		Dies	el Range Organics	ND	mg/Kg	- 1	25	a and a part of the second	11-01-04	11-01-0
Sample:	SDNMG33	in the contract of the second		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MARKERSON COMME OWNER	Collected: 10-2	2-04 8:00:0	0 By: A	MB			er er er vouer burning
Matrix:	C											
	***************************************			*************************************	• •• ••••••••••••••••••••••••••••••••••	EL LETSCHARE D. VIII O TAKE AND A		Dilution	Detection		Prep	Run
QC Group	Run Sec	uence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-3	4.6	92	NAME ACTE	en nen 4 een	GRO by GC/FID				By;	TRS		
X041406	XG.2004.1	50114	***************************************		ine Range Organics	s ND	mg/Kg	1	0.5	******	10-30-04	10-30-0
0410577-3	34	 6	108 348W	A Diesa	Range Organics I	to eccisio	- made and simulated the constitution	aphienner i supranne et en englere.	By:	MDE		
X041414				****	el Range Organics	ND	mg/Kg	1	25	***************************************	11-01-04	11-01-0
	Print to the second	924,22								,		
Samola.	ć	924.22	***************************************	***************************************	***************************************		12 AA 40:16	00 Rvc 1				
Sample:	SDNMG34	924.32	***************************************	***************************************			?2 <b>-04 10</b> :15:	00 By: A	WE EN			
	ć	924.32		***			12-04 10:15:1	00 By: A	<b>AB</b>			
Matrix	SDNMG34 C	ige.	900-90 1997 ( 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**************************************		Collected: 10-2		Dilution	Detection		*	Run
Matrix	SDNMG34 C	ige.	CAS#	***	Analyte		22-04 10:15:1 Units			Code	Prep Date	Run Date
Matrix QC Group 0410677-3	SDNMG34 C Run Seq	Mence S		Market Account to the Section	GRO by GC/FID	Collected: 10-2		Dilution Factor	Detection Limit	Code TRS	Date	Date
	SDNMG34 C Run Seq	Mence S		Market Account to the Section		Collected: 10-2		Dilution	Detection Limit		*	Date
Matrix: QC Group 0410677-3 X041406	SDNMG34 C Run Seq 4A XG:2004 1	\$PRINCE  \$ 921.51	W846 5035	Gaso	GRO by GC/FID	Collected: 10-2  Result  ND by GC/FID	Units	Dilution Factor	Detection Limit By: 0.5	TRS	Date 10-30-64	Date 10-30-0
Matrix: QC Group 0410677-3 K041406	SDNMG34 C Run Seq 4A XG.2004 1	\$PRINCE  \$ 921.51	W846 5035	Gaso 8 Diese	GRO by GCIFID ine Range Organics	Collected: 10-2 Result	Units	Dilution Factor	Detection Limit By:	TRS	Date 10-30-64	Date 10-30-0
Matrix: QC Group 0410677-3 K041406 0410577-3 K041414	SDNMG34 C Run Seq 4A XG.2004 1	\$PRINCE  \$ 921.51	W846 5035	Gaso 8 Diese	GRO by GCIFID ine Range Organics Range Organics I	Collected: 10-2  Result  ND by GC/FID	Units mg/Kg mg/Kg	Dilution Factor	Detection Limit By: 0.5	TRS	Date 10-30-64	Date 10-30-0
Matrix: QC Group 0410677-3 K041406 0410577-3 K041414	SDNMG34 C Run Seq 4A XG.2004.1	\$PRINCE  \$ 921.51	W846 5035	Gaso 8 Diese	GRO by GCIFID ine Range Organics Range Organics I	Collected: 10-2  Result  ND  by GC/FID	Units mg/Kg mg/Kg	Dilution Factor	Detection Limit By: 0.5 By:	TRS	Date 10-30-64	Date 10-30-0
Matrix: OCC Group 0410677-3 X041406 0410577-3 X041414 Sample:	SDNMG34 C Run Seq 4A XG:2664 1 4A XG:2664 1	\$PRINCE  \$ 921.51	W846 5035	Gaso 8 Diese	GRO by GCIFID ine Range Organics Range Organics I	Collected: 10-2  Result  ND  by GC/FID	Units mg/Kg mg/Kg	Dilution Factor	Detection Limit By: 0.5 By:	TRS	Date 10-30-64 11-01-64	10-30-0 11-01-0
Matrix: QC Group 0410677-3 0410577-3 0410577-3 041414 Sample: Matrix:	SDNMG34 C Run Seq 4A XG.2004 1 4A XG.2004 1	\$921.11 S	W846 5035	Gaso 8 Diese	GRO by GCIFID ine Range Organics Range Organics I	Collected: 10-2  Result  ND  by GC/FID	Units mg/Kg mg/Kg	Dilution Factor	Detection Limit By: 0.5 By:	TRS	10-30-64 11-01-64 Prep	Date 10-30-0
Matrix:  QC Group 0410677-3 K041406 0410577-3 K041414 Sample: Matrix:	SDNMG34 C Run Seq 4A XG.2004 1 4A XG.2004 1 5DNMG35 C	\$921.11 S \$ \$224.23	W846 6035	Gasol B Diesel Dies	GRO by GC/FID ine Range Organics I Range Organics I et Range Organics	Collected: 10-2  Result  ND by GC/FID  ND  Collected: 10-2	Units mg / Kg mg / Kg	Dilution Factor  1  1  00 By: A	Detection Limit  By: 0.5  By: 25  Detection Limit	MDE	10-30-64 11-01-64 Prep	16-80-0 11-01-0
Matrix: OCC Group 0410677-3 X041406 0410577-3 X041414 Sample:	SDNMG34 C Run Seq 4A XG.2004 1 4A XG.2004 1 5DNMG35 C	\$921.11 S \$224.23	W846 6035	Gasol B Diese Dies	GRO by GC/FID line Range Organics Range Organics I el Range Organics	Collected: 10-2  Result  ND  ND  Collected: 10-2  Result	Units mg / Kg mg / Kg	Dilution Factor  1  1  00 By: A	Detection Limit By: 0.5 By: 25	MDE	Date 10-30-84 11-01-04 Prep Date	16-80-0- 11-01-0-



### Assalgal Analytical Laboratories, Inc.

Project:	NMG	148										
Order:	04105	77 ENV	03	Receipt:	10-26-04							
Sample:	SDNA	/G35		Shaharan an a	Market and a second	Collected: 10-	22-04 11:30:	00 By: /	WB	, ne		
datrix:	С											
-		wyses: 2 32220 0 00 00 00 00 00 00 00 00 00 00 00			and a supplemental and a supplem	00.01.01.00			M	uunin nin ennimetät 21		Run
QC Group	F	lun Sequence	CAS#		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Date
			******	FM Pi	l Range Organics	S. COES			By:	MDE		
0410577-35 Xosiaia		G 2004 1924 24	577646 0U:	igualistica interesión escar	i Kange Organics iel Range Organics		mg/Kg	· 1	25	11146	11-01-04	11-01-0
	ng 500 n n an 11	22	To a transfer of the second se				and the second s			s company		
Sample:	SDNA	1G36				Collected: 10-	22-04 13:40:	00 By: /	WB BW			
Matrix:	C											
**************************************	**************************************			14.14(\$14.12 - 1.126***********************************		and the second s		Ditution	Detection		Prep	Run
QC Group	F	lun Sequence	CAS#		Analyte	Recult	Units	Factor	Limit	Code	Date	Date
			2 - 1 - 2 2 - 2 2 2 2 2 2 2 2 2 2 2 2 2		ingan in in a state of a series of series	i is iterio i no	ANNOUNCE TO SE	*****	ora iz Konotoni		over the same	61 1 11 11 11 11
0410577-36			SW846 603		GRO by GC/FID	minute of the second			By:	TRS	40 40 0	****
X041405	х	G 2004.1921.13	***************************************	Geso	line Range Organi	ts ND	mg/Kg	1	0.5		10-30-04	10-30-0
0410577-36			SW846 801	5B Diese	l Range Organics	by GC/FID	and a supplication of the section of	vennetektore ikkennene ovo o. o. e	By:	MDE		
X041414	×	G 2004.1924.25		Dies	el Range Organica	51	mg/Kg	1	25	: Anunuu	11-01-04	11-01-0
Sample:	SDNN	AC:37	***************************************		tens receive are an equal annual description	Collected: 10-	22-04 14:30	00 Bv: i	M8			
Matrix:		1G57						vo wy, ,	14140			
Meutx.	C							****	***************************************	weren in the second		
								Dilution	Detection		Prep	Rum
QC Group		lun Sequence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
0410577-37	7 <b>A</b>		SW846 502	SRJ8015R	GRO by GC/FID				By:	TRS		
X041412		G 2004,1933.8			line Range Organia	cs ND	mg / Kg	1	0.5	* empression is	11-02-04	11-02-0
0410577-37	7.6		C14/0/4 0/4	ED. Gland	(Daine America	L. CCEID			By:	MDE		
04 1051 1-31 X041414		G 2004,1924.28	244040 601	lyhoranorrano iliano	l Range Organics vel Range Organics	and the second section is a second section of the second section is a second section of the second section is a	mg/Kg	1	25		11-01-04	11-01-0
			L							******		
Sample:	SDNA	1G38		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Collected: 10-	22-04 (5:15)	00 By:	MB			
Matrix:	C											
			* / /				~ 6 * 7 Y/S (100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 * 100 *	Relation	Detection	···· (\$ 34 î.K. 1614 - 4000)	Prep	Run
QC Group	6	lun Sequence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
कर स्थान	, ,		77 77 77			1		A.FRIII	. 37.1		11.5.747	
0410577-38			SW846 503	شسيمين بالمحميم	GRO by GC/FID		MIT MAKE A PROPERTY		By:	TRS		
X041412	×	G 2004 1933.11		Gaso	line Range Organi	es NO	mg/Kg	1	0.5		11-02-06	11-02-0
0410577-38	3A		SW846 801	58 Diese	Range Organics	by GC/FID			By:	MDE		
X041494	×	G 2004,1924,29		Dies	iel Range Organics	NO NO	mg/Kg	1	25	:	11-01-04	11-01-0
Sample:	COM	4026 NOW	**************************************			Collected: 10-	22 O4 45 20		M8			
,		IG39 NSWC				Consciss, 12-	ee-om 19.eu.	ou by.	MILL STATE			
Matrix:	C		~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·····		an magazina gangan gangan ana a a a a a a a a a a				var year	er i i i i i i i i i i i i i i i i i i i	· · · · · · · · · · · · · · · · · · ·
								Dilution	Detection		Prep	Run
		tun Sequence	CAS#		Analyte	Result	Units	Factor	Umit	Code	Date	Date
QC Group				**								
rengel of	+4 + 7 + 5 **		251250 AD RAS	****	ARA L AA				ph	190.00		
QC Group 0410677-38 X041412	)A	G.2004.1833.12	SW846 503	************************	GRO by GC/FID ine Range Organic	es ND	mg/Kg	·····	By: 0.5	TRS	11-02-04	11-82-0



### Assaigai Analytical Laboratories, inc.

## Certificate of Analysis

Client:		/IRONME	NTAI	_ PLUS, I	NC.								
Project: Order:		G 148 0577	ENV	03	Receipt:	10-26-04							
Sample:	SDI	VMG39 N	SWC	www		and the first of the expension of the ex	Collected: 10-2	2-04 15:20:	00 By: .	MB			
Matrix	С												
QC Group	. 73.,140,000	Run Sequ	ence	CAS#	encorrence en energia y el el el el	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0410577-39	Q.A.			SWR46 80	15B Diese	I Range Organics by	CC/FID			Bý:	MDE		
X041414	***	XG.2004.190	<b>14.30</b>		AND THE PROPERTY OF THE PARTY O	el Range Organics	ND	mg/Kg	1	25		11-01-04	11-02-04
Sample: Matrix:	SDI C	VMG40 ES	SWC			Andreas	Collected: 10-2	?2 <b>-04 15</b> :25\	00 By:	MÐ		e - vi-v , eresses	
QC Group		Run Sequ	ence	CAS#		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Dato
0410577-40	0A			SW846 60		GRO by GC/FID	nonemakan manan manan akamat 2 mmon	No. augusta artistat (1985), No. 1986	······································	By:	TRS		
K041412		XG.2004.190	53.13		Gaso	line Range Organics	ND	mg/Kg	<u> </u>	0.5		11-02-04	11-82-04
0410577-40	OA			SW846 80	- right to the contract of the	l Range Organics by	recording to the second second		·	By:	MDE		
X041414		XG.2004.180	24.31		Dies	sel Range Organics	ND	mg/Kg	1	25	· · · · · · · · · · · · · · · · · · ·	11-01:04	11-02-04
Sample: Matrix:	SDI C	VMG41 5:	SWC	relieuwene z dio., ware + 99		достина в достава на посторожно и достава на достава достава достава достава достава достава достава достава д	Collected: 10-2	2-04 15:30:	00 By:	MB			
QC Group		Run Sequ	ence	CAS#		Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0410577-4	1A			SW846 50	358/60158	GRO by GC/FID				By:	TRS		
X041412		XG.2004,190	33,14	L	Gaso	line Range Organics	ND	mg/Kg		0.5		11-02-04	11-02-04
0410577-4	1A			SW846 80	**************************************	l Range Organics by	management of the second of th	where we do do a commence	******	By:	MDE		
XC41398		XG 2004,190	30.6		Dies	sel Range Organics	, ND	mg/Kg	1	25		10-28-04	10-28-04
Sample: Matrix:	SDI C	VMG42 W	SWC				Collected: 10-2	2-04 18:351	20 Ву:	MB			
		****************			***************************************	COCCC C SEC LOS RESIDANDAS CONTRACTOR SECURIO CONTRACTOR CONTRACTO			Dilution	Detection		Prep	Run
QC Group		Run Sequ	ance	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
D410577-4	2A			SW846 50	35EV8015E	GRO by GC/FID				By:	TRS		
X041412		XG 2004,195	33,15		erakerkeren eraeneakkeren erak	line Range Organics	ND	mg/Kg	1	0.5		11-02-04	11-02-04
0410577-43	2A			SW846 80	156 Diese	Range Organics by	GC/FID			By:	MDE		
X041396		XG 2004.190	00.7		Dies	el Range Organics	ND	mg/Kg	1	25	1	10-28-04	10-28-04
Detection i	ile resu Limit.	t is fess than I All results rela	the save in only	pte specific D to the llems to	election Limit sted. Any m	condition and all sampling.  Sample specific Detect interference workerder in contamination.	ion Limit is determin	ed by multiply	ng the same	ius. Sample re de Dituion Fed	suit of NO dor by the	indicates Issed Rep	outing Not

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City / State / Zip Project Name / Number NYUG 148 Contract / Purchase Order / Quota		Telaphon Fex No Samplers	505 - 394 - 76	(manusus and			//		Remarks
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SPA SDNAG8	10-15	12:10 C			<del>                                     </del>				
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18A 50NMG 18	10-19	9:38 C							
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ASSAIGAI ANALYTICAL LABORATORIES, INC.  CRent Du K C Address  City / State / Zip  Project Name / Number Nin (1 14 8)  Contract / Purchase Order / Quote	<b>C</b>	Project M Telephon Fax No.	of Custo Pege 3 or sanager / Contact Lat 11111 e No. SOX - 394 - 31 SOS - 3974	1- Coslend 181 2601	<b>COI</b>		GINA	<b>******</b> ******************************	137 EA LOS ALAN	32 WEDGI 960, TEX (915) 509-	W MEXICO 87100 8664 8WOOD 8879925 4000 RIVE, 212-C MEXICO 87544 2558	Amarks
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### **ASSAIGAI ANALYTICAL** LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87107 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, Ste. N • El Poso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820 127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

ENVIRONMENTAL PLUS, INC. PAT MCCASLAND P.O. BOX 1558 EUNICE

NM 88231

	Explanation of codes
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Client: Project: Order:	ENVIRONMENTA DUKE ENERGY N 0411146 ENV	MG 148	NC. Receipt: 11-05-04	Por Williams	Jan	cikal Astado		La suriane de		··· ··································
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QC Group	Run Sequence	CAS 6	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0411146-0	ΪΑ	SW846 50	SB#60158 GRO by GC/FID				Øÿ:	TRS		
XD41437	XG 2004 1865.7		Gasoline Range Organics	ND	mg/Kg	1	0,5	Ī	11-09-04	11:09:0
0411146-0 XX41451	YG.2004.1998.8	SW646 80	15B Diesel Range Organics by G Diesel Range Organics	C/FID ND	mg/Kg	1	Ву: 25	MDE	11-11-04	11-11-0
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QC Group	Run Sequence	CAS#	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0411146-0	)2A	SW846 50	35B/8015B GRO by GC/FID				Ву	TRS		
X041497	XG.2004/1985/10		Gasoline Range Organics	ND	mg/Kg	1	0.5		11-09-04	11-09-0
0411146-0 X041461	)ZA XG.2004,1996,0	SW846 80	15B Diesel Range Organics by G Diesel Range Organics	C/FID NO	rng / Kg	: 1	By:	MDE	11-12-04	11×11-0
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QC Group	) Run Sequence	CAS#	Analyte	Result	Units	Oitution Factor	Detection Limit	Code	Prep Date	Run Date
0411146-0	)3A	SW846 50	358/80158 GRO by GC/FID				Ву:	TRS		
XC41437	XG.2004.1986.11		Gasoline Range Organics	ND	mg / Kg		0.5		11-09-04	11-09-0
Page 10'	9		SQLCayoté: Reports 1,1.0	0411031209XX		× • • • • • • • • • • • • • • • • • • •	Report Da	te 11/12	2004 11:	30:43 AN

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### Assaigal Analytical Laboratories, Inc.

Project:	DUKE	ENERGY N	MG 148									
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šample:	SDNA	IG10250445	A/ 144 mA 42.000000000000000000000000000000000000			Collected: 10-	25-04 9:45 0	) By. /	AB			
latrix:	C	an in the supplemental Control of Control					,					
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M11146-03		G.2004 1898 10	SW846 80	segment of the second	Range Organics i				8y:	MDE	11-11-04	15-11-0
))414\$1		G-2004 1996-10		. Des	e Range Ovganics	ND	mg/Kg		. <b>25</b> 	zaroka, tan	t in the impre	
iample:		//G10250446				Collected: 10-	25-04 11:24:	20 By: (	WB			
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	_				etus es		***		Detection		Prep	Run
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411146-04			SW846 50		GRO by GC/FID		** *** <b>7.6</b> 5		By:	TRS		
(041437	×	G.2004.1985.12	·		line Range Organic	indiana dalam arabita da anti-com-	mg/Kg	. 1	0.5		11-09-04	11-09-0
)41 <b>1146-0</b> 4 (),41461		G.2004.1998.21	SW846 80	rag or or own or or own programs	Range Organics	by GC/FID ND	mg/Kg	r 4	By: 25	MOE	15-11-04	11-11-0
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sample:		AG10250447				Collected: 10-	25.04 13:16:	00 By: 1	WB			
Astrix.	C				THE COLUMN TO TH							and a supplication of the
					X or o to sto	<b>-</b>	<b>3</b>		Detection		Prep	Run
2C Group	<u>†</u>	lun Sequence	CAS #		Analyte	Result	Units	Factor	Limit	Code	Date	Date
)411146 <i>-</i> 08		C MARY PARE OF	SW846 50		GRO by GC/FID			· · · · · · · · · · · · · · · · · · ·	By:	TRS	44.00.04	4
(041437		G.2004.1985.13	*		line Range Organic		mg / Kg	] ]	0.5		11-09-04	11-09-0
1411146-01 (041461		G.2004.1998.12	SW846 80	cigare commission A	l Range Organics. set Range Organics	by GC/FID ND	mg / Kg	: 1	<b>B</b> y: 25	MDE	11:11-04	11-11-0
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Vašnix:												
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2C Group	}	lun Sequence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
1411146-04			SW846 50	agranda e caracitation	GRO by GC/FID		***********************		By:	TRŞ		
(041437	Х	G.2004.1985.14		Gaso	line Range Organic	s ND	mg/Kg	1	0.5	<b></b>	11-09-04	11-09-0
<mark>)411146-0</mark> 4 (041481		G.2004.1998.15	SW846 80		Range Organics	~			By:	MOE	44.44.53	
rii ei i eren z		O.ACO*,1890.10	I. owner con-	Ue:	sel Range Organics	ND ND	mg/Kg	: 1	25		11-11-04	11-11-0
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	F	tun Sequence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
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3C Group 0411146-00			SW846 50	35B/9015B	GRO by GC/FID				By:	TRS		

## Assaigai Analytical Laboratories, Inc.

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411146-07A			SW846 80	158 Diese	i Range Organics	by GC/FID			By:	MDE		
D41461	XG.2004.1	97,866		Die:	sel Range Organics	ND	mg / Kg		25		11-11-04	11-114
ample: S£	ONMG102	60450	Startmin	agaig descriptions and		Collected: 10-2	6-04 9:33:00	) By: I	MB			***********
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411146-08A			SW846 50	358/80158	GRO by GC/FID				Ву:	TRS		
(041437	XG.2004.1	985.17		******	iline Range Organic	S NO	mg / Kg		0.5		11-09-04	11-09-0
1411146-06A			SW846 80	158 Diese	i Range Organics	by GC(FID			By:	MDE		
(841461	XG.2004.1	998.17		Diei	sel Range Organics	NO NO	mg/Kg	\$	25		11:11:04	11-11-6
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A00-36111A			2.11.12	358/80158		resur	Winne	ractor				
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041146-09A 0411146-09A 0041461 Sample: SI Matrix: C 2C Group 0411146-10A 0041437 0411146-10A 0041481	XG 2804 1 XG 2804 1  DNMG102  Run Seq	998.18 60452 wence 1985.19	SW846 50 SW846 80 CAS # SW846 50	Gasc 1158 Diese Diese 1358/80158 Gasc 1158 Diese	Analyte  GRO by GC/FID  Jine Range Organics  Analyte  GRO by GC/FID  Jine Range Organics	cs ND by GC/FID c NO Collected: 10-2 Result cs ND by GC/FID c ND	mg / Kg mg / Kg /6-04 13:10 Units mg / Kg	Dilution Factor	By: 0.5  By: 25  MB  Detection Limit  By: 0.5  By: 25	TRS MDE Code	11-09-04 11-11-04 Prep Date	Run Date 11-09-4
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1041437  M411146-09A  1041461  Sample: Si Astrix: C  10C Group  M411146-10A  1041437  M411146-10A  1041481  Sample: Si Astrix: C	XG.2004.1 XG.2004.1  Run Seq XG.2004.1	1998.18 160452 1985.19 1985.19	SW846 50 SW846 80 CAS # SW846 50	Gasc 1158 Diese Diese 1358/80158 Gasc 1158 Diese	Analyte  GRO by GC/FID  Jine Range Organics  Analyte  GRO by GC/FID  Jine Range Organics	cs ND by GC/FID c NO Collected: 10-2 Result cs ND by GC/FID c ND	mg / Kg mg / Kg mg / Kg Units mg / Kg	Dilution Factor  1  1  00 By:	By: 0.5  By: 25  MB  Detection Limit  By: 0.5  By: 25	TRS MDE Code	11-09-04 11-11-04 Prep Date	Run Date 11-09-4
1041437 1411146-09A 1041461 Sample: SI 141146-10A 1041437 1411146-10A 1041481 Sample: SI	XG.2004.1 XG.2004.1 XG.2004.1 Run Seq XG.2004.1 XG.2004.1	1998.18 160452 1985.19 1985.19	SW846 50 SW846 50 SW846 50 SW846 50	Gasc 1158 Diese Diese 1358/80159 Gasc 1158 Diese	Analyte  GRO by GC/FID  Jine Range Organics  Analyte  GRO by GC/FID  Jine Range Organics  Range Organics	cs ND by GC/FID collected: 10-2 Result cs ND by GC/FID by GC/FID Collected: 10-2	mg / Kg mg / Kg mg / Kg Units mg / Kg mg / Kg	Dilution Factor  1 Dilution Factor	By: 0.5 By: 25 MB  Detection Limit By: 0.5 By: 25 Detection	Code TRS MDE	11-09-04 11-11-04 Prep Date 11-09-04 11-11-04	Run Date 11-09-

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## Assaigal Analytical Laboratories, Inc.

	DUKE ENE											
Order:	0411146	ENV	03	Receipt	11-05-04							
Gample:	SDNMG102	60453				Collected: 10-2	6-04 14 31 0	00 By: 6	48	er agent's there is a series		
&atnx:	C											
	er i paramage da managerica de la calego descolo	gar as introductions	1 (1900)	, on a temp sector of				Dilution	Detection		Prep	Run
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1411146-11	IA		SW846 80	15B Diese	Range Organics by	GC/FID			By:	MDE		
(041461	XG.2004.	1998.20		2 2 12 10 0 00 11 10 10 10 11 11 11 11 11 11 1	el Range Organics	ND	. mg / Kg	1	25	contrological war.	11-11-04	11-11-0
'amaia	SDNMG102	**********			m managen comparado do como por	Collected: 10-2	7.04 7:35:00	By: A	ve	and the same	y	
iampše: Aatrix:	C	(10404				\$10 total 20 com \$300 200 \$10 - 300	F-A/ William birth	,,				
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	Prom. Co.		C46#		A series in other	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
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411146-12			SW846 50		GRO by GC/FID		o man o managara manara ma		By:	TRS		4.5 700-0
(041437	XG.2004.	1985.21		Gaso	line Range Organics	NO	mg / Kg		0.5		11-09-04	11-09-0
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1041464	XG, 2004.	1999,6		Dies	ei Range Organics	ND	mg / Kg		25	<u></u>	11-11-04	11-114-0
Sample:	SDNMG10	270455				Collected, 10-2	7-04 B:37:00	) By: /	WE	190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 1	anneder to track to	
<b>K</b> abix	C											
		nuk.: 1100.0			<u>,</u>		1 17 page Mar larger as 11	Dilution	Detection	ماديد مناشين	Prep	Run
QC Group	Run Se	quence	CAS#		Analyto	Result	Units	Factor	Limit	Code	Date	Date
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<b>411146-1</b>    041437	3A KG-2004	1985 77	SW846 50	gase - succession power or new	GRO by GC/FID line Range Organics	, ND	mg / Kg	1	By: 0.5	TRS	11-09-04	11-09-0
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]411146-1; (041464	3 <b>A</b> XG.2004,	1000 0	5W846 80		l Range Organics by sel Range Organics	y GC/HD ND	mg / Kg		By: 25	MDE	11-11-04	11-11-0
2 (Safe 4 20 (Sam)	302.2307	Characterisms II	· . below to see	Janes Dies	consige Organica		ng ng		E.W	<u></u>	77.81.44	
Sample:	SDNMG10	270456				Collected: 10-2	7-04 9:50:01	0 By: 1	MB			
<b>V</b> atrix:	C	Tables of Labor 107 / J. J.				harrie Marriagadola e e e e e e e e e	,					
								Dilution	Detection		Prep	Run
QC Group	Run Se	quence	CAS#		Analyte	Result	Units	Factor	Limit	Code	Date	Date
	åΩ		SWRAR SO	25R/8014P	GRO by GC/FID				By:	TRS		
1.2444.1	XG.2004.	1985.23		er i i van de	line Range Organics	ND	mg / Kg	1	0.5		11-09-04	11-00-0
			diameter weather	15A Diece	Range Organics by	- GC/EID		** ************************************	By:	MDE		
1041437	4.5		CWREE SO		I THERETIES WE SHOW IN WAS BELLEVIED BY		ana i ka	1	25	**************************************	11/11/04	11/11/
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(041437 041 <b>8146-1</b> 4 (041484	XG 2004	www.commission	SW846 80	o egranoscopes centento ve volviv	a contrata de la comita de la co			A. 171				
(041437 )411146-14 (041484 Sample:	XG 2004 SDNMG10:	www.commission	5W846 80	o egranoscopes centento ve volviv	a contrata de la comita de la co	ND Collected: 10-2		00 By: 1	M8			
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1041437 1411146-14 1041464 Sarrigie:	SDNMG10: C	270457	CAS #	Dies	sei Range Organica	Collected: 10-2	17-04 11:44:	Dilution	M9  Detection			

#### Assaigai Analytical Laboratories, Inc.

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ýrder:	0411146	ENV	33	Receipt	11-05-04							
Sample:	SDNMG10	270457	, et a , il grand in the control control		y managana yaka a ayaa a cii maa a cii	Collected: 10-	27-04 11:44:1	20 By: A	<b>/</b> 6	e and increased to be	na - colab e aconsecerción	
latrix	c											
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C Group	Ruin Si	equence	CAS#		Analyte	Result	Units	Dilution Factor	Limit	Code		Date
io diomp											*** * *	
411146-15			SW846 80	····	Range Organic	en comment a comment of the service	Tax (PA	e .	Бу: 25	MDE	11.31.64	21-11-0
041464	A12.2330	1,1999,11	i	. UR	sel Range Organic	≯ ND	mg/Kg			l,	*********	.,.,,
iampie:	SDNMG10	270458				Collected: 10-	27-04 13:20	00 By: A	NB			
Aatrix:	С											
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14111 <del>46</del> -16	ia XG.208	e ecoyes y	SW846 50		GRO by GC/FID Dime Range Organ	•••••••••••••••••••••••••••••••••••••••	mg / Kg		Бу: 0.5	TRS	11-00-04	11-08-0
(041439	A.G. 20,00	4.0m; a.c		a di , communica accessor.		Land of the second second	1119/119			المدير المديدية. المستقدد		.,,
1411146-16		2 AWWW 2 W	SW846 80	occup waterwaterwich in it was	el Range Organic	mer ramentine i decentration de la company de la compa			By: 25	MOE	11-11-04	11-11-0
(841484	AQ,SAV	4,1999.12			sel Range Organi	a ND	mg/Kg		***********	l	6 1 ~ 6 X ~ Q ~ 4	* 10.1 150
Sampie	SDNMG10	270459	***************************************		AAAAA	Collected: 10-	27-04 15:00	00 By: /	WB	in in the second		
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3411146 <u>-</u> 17			SW848 50		GRO by GC/FID	······································			€y:	TRS		
CD41439	XG.200	4.1979.10		Gas	otine Range Organ	ilics ND	mg/Kg		0.5	1.,	11-08-94	91498-0
3411146-17			SW846 80	a management of the	el Range Organic		792		By:	MOE	44 ×4 D4	26 66 Y
CD41484	X(1.200	4,1939.13		Die	sel Range Organi	3 NO	mg/Kg	in the second second	25	L.,	11-11-04	*1-11-Q
Sample:	SDNMG10	280460				Collected: 10	-28-04 8:04:0	0 By. /	WB B	***************************************	***************************************	
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10,000000000000000000000000000000000000		*******	manger alikali yang					PO18.467.00			Trens.	C) u num
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3411146-18			SW846 50	sa i comunication comite	3 GRO by GC/FIC			~;~···	Ву	THS	** ** **	aa nn a
KB41439	<b>X</b> G,299	4.1979.11		Gas	oline Range Orgar	ics NO	mg / Kg	1	0.5	نسسسا	11-05-04	11-08-0
			SW846 80		el Range Organic	e a di arresta de la la della del		••••••••••••••••••••••••••••••••••••••	Өу	MDE		
	xG 200	4,1999.16		Die	isel Range Organii	cs ND	mg / Kg	.l <b>!</b> .	25	L	11-11-04	11-13-0
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*****	Collected: 70	-28-04 9:11 0	0 Ву:	WB			-,
0411146-18 xo41464 Sample:		0280461										
xounusu Sample:	SDNMG1	0280461										······································
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xourass Sample: Matrix:	SDNMG10 C	to to the overtices where	······································	1998-1888 18531.3	Anghrin	Đạn, 🌣	e e e e		Detection	Code	Prep Date	Run
xourass Sample: Matrix:	SDNMG10 C	0280461 equence	CAS #	··· 5	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
co41464 Sample:	SDNMG10 C Run S	to to the overtices where	21.	13513/8015	Analyte B GRO by GC/Fi(		Units				Date	

#### Assaigai Analytical Laboratories, Inc.

Order:	041	1146 E	NV03		Receip	t 1	1-05-04							
Sample	SDI	NMG102804	161	***************************************		atait anna a		Collected: 7	0-28-04 9:11.0	ō Ву: Л	WB			
Vatrix	C													
				erm Tearmeriff ()		0 Q. 100Q-1111 111				Dilution	Detection		Prep	Run
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0411146-19	9A		SV	<b>V84</b> 6 80 [.]	158 Die	rsel Ra	inge Organics I	by GC/FID			Ву:	MDE		
K041484		XG,2084.1999.	17		Ĺ	Nesel f	tange Organics	NO	mg / Kg	1	25		11:11:04	11-11-0
Sample:	SDI	NMG102804	162		*************		······································	Collected: 1	0-28-04 10:40	00. By: /	VB			
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0411146-20	DA		sv	V846 50:	358/501	58 GI	RO by GC/FID				By:	TRS		
X041439	••,	XG 2004,1979	21.15			See an account	Range Organic	s ND	mg í Kg	1	0.5		11-08-64	11-08-0
0411146-2	0A		sv	V846 60	158 Die	sel R	ange Organics (	by GC/FID			Ву:	MDE		
X041464		XG 2004.1999	18	t to the company the legislation		Nesel (	Range Organics	ND	mg/Kg	1	25		11-11-04	11-11-0
Sample:	SD	NMG10280-	<b>163</b>		*** ** * *******		and a management of the	Collected: 7	0-28-04 11:50	oo By: /	MB	,		iaa .ai.,
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QC Group		Run Sequer	ice (	CAS #	er yet		Analyte	Resul	t Units	Factor	Limit	Code	Date	Date
0411146-2	14		SV	V846 50	35E/801	158 G	RO by GC/FID				8y:	TRS		
X041438		XG 2004 1979	14		G	asoline	Range Organic	s ND	mg í Kg	1	0.5	<u></u>	11-08-04	11-06-9
0411146-2	1A		SV	V846 80	158 Dk	esel R	ange Organics		erical contractions and an artist contraction and a second		Ву:	MDE		
X041464		XG:2004.1999	.19		) I	Diesei I	Range Organics	NO	mg/Kg	1	25	l	11:11:04	11:11:0
Sample:	SD	NMG10280	164	-41 6000-000000000000000000000000000000000		er v 16006060001.40	**************************************	Collected: 3	0-28-04 13:45	00 Ву	MB			
Metrix:	C													
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Assaigai Analytical Laboratories, Inc.

## Certificate of Analysis

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Analytical results are not corrected for irielhod blank or field blank contamostion.

The percent recovery of the surrogate, associated with this sample, is outside of CAVOC criteria (liow). This is attributed to matrix interference.



ASSAIGAI ANALYTICAL LABORATORIES, INC.	Chain of Custody		4001 Mesthand N.E. ALBUCHEROUS, NEW MEXICO 87109 (509) 345-8764  9332 WEDGEWOOD EL PAGO, TEXAS 73928 (815) 883-8090  127 EASTOATE DRIVE, 212-C
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LABORATORY



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ASSAIGAI ANALYTICAL LABORATORIES, INC.  Citent DUKE ENERGY Address  City/State/Zip  Project Number Number NMG 148  Contract/Purchase Order/Quota		Project I Telepho Fex No.	of Custo b Na.: 0411146 Dere- frage 3 frage 4 frage 3 frage 4 frage 4 frag	3 MrCaslan YBI	Outcome!	ALBUGARER 28 EL 1 177 EA LOS ALAS	07 Machand N.P. GUE, NEW MERCO \$1109 (\$05) 245-8989 22 WEDGENOOD 22 WEDGENOOD 25 WEDGENOOD 25 WEDGENOOD 25 WEDGENOOD 25 WEDGENOOD 25 WEDGENOOD 26 WEGGENOOD 27 WE
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LABORATORY

#### NEW MEXICO STATE LAND OFFICE

Ray B. Powell, Commissioner of Public Lands New Mexico State Land Office Building P.O. Box 1148, Santa Fe, NM 87504-1148

# RIGHT OF ENTRY PERMIT CONTRACT NO. 707

#### 1. RIGHT OF ENTRY PERMIT

This permit is hereby issued under the authority established by Section 19-1-2 NMSA (1985). Therefore, and in consideration of and subject to the terms, covenants, conditions, agreements, obligations and reservations contained in the permit and all other existing rights, the Commissioner of Public Lands, New Mexico State Land Office, State of New Mexico, hereinafter called "COMMISSIONER," grants to Duke Energy Field Services c/o Environmental Plus, Inc. of PO Box 1558, Eunice, NM 88231 hereinafter called "PERMITTEE," authorized use of a specific tract(s) of state trust land described in this permit.

#### 2. TERM AND LAND DESCRIPTION

Right of entry is granted for a term of 3 months commencing December 18, 2002 to March 18, 2003 to the following state lands: NE4SW4 of Section 16, Township 19 South, Range 37 East.

#### 3. FEE.

\$300.00 (Three Hundred Dollars)

#### 4. PERMITTED USE

Permitted use is for the purpose of: Delineate and characterize the extent pipeline fluid contamination and excavate soil for remediation purposes, i.e., off-site disposal, mechanically shred/aerate, land spread, blend and treat the released pipeline fluids. An undetermined number of ground water observation monitor wells will be installed. The granting of this permit does not allow access across private lands.

#### 5. IMPROVEMENTS

No improvements shall be placed on the premises without the prior written consent of the Commissioner.

#### 6. RESERVATIONS

Commissioner reserves the right to execute permits on the land granted by this permit for mining purposes and for the extraction of oil, gas, salt, geothermal resources, and other mineral deposits therefrom and the right to go upon, explore for, mine, remove and sell same.

Commissioner further reserves the right to sell or dispose of natural surface products of said lands and to grant such other right-of-way and easements as provided for by law.

#### 7. COMPLIANCE WITH LAWS

Permittee shall at its own expense comply fully with and be subject to all regulations, rules, ordinances, and requirements of the Commissioner including, but not limited to the Cultural Properties Act, NMSA 1978 as amended. It is illegal for any person or his agent to appropriate, excavate, injure, or destroy any historic, or prehistoric ruin or monument, or any object of historical, archaeological, architectural, or scientific value situated on lands owned or controlled by the State Land Office without a valid permit issued by the Cultural Properties Review Committee and approved by the Commissioner of Public Lands.

#### 8. HOLD HARMLESS

Permittee shall have, save, and hold harmless, indemnify and defend Commissioner and the State of New Mexico, and their agent or agents, in their official and individual capacities, of and from any and all liability claims, losses, or damages arising out of or alleged to arise out of or indirectly connected with the operations of Permittee under this permit off or on the Commissioner' premises or arising out of the presence on the Commissioner's premises of any agent, contractor or subcontractor of Permittee.

#### 9. AMENDMENT

This permit shall not be altered, changed or amended except by an instrument in writing executed by Commissioner and Permittee.

#### 10. WITHDRAWAL

Commissioner reserves the right to withdraw any or all of the land authorized for use under this permit. If applicable, Permittee shall vacate the acreage specified within 30 days after receipt of written notification of withdrawal from the Commissioner.

#### 11. CANCELLATION

The violation by Permittee of any of the terms, conditions or covenants of this permit or the nonpayment by Permittee of the fees due under this permit shall at the option of the Commissioner be considered a default and shall cause the cancellation of this permit 30 days after Permittee has been sent written notice of such.

#### 12. PRESERVE AND PROTECT

The Permittee agrees to preserve and protect the natural environmental conditions of the land encompassed in this permit, and to take those reclamation or corrective actions that are accepted soil and water conservation practices and that are deemed necessary by the Commissioner to protect the land from pollution, erosion, or other environmental degradation.

#### 13. RECLAMATION

The Permittee agrees to reclaim those areas that may be damaged by activities conducted thereon.

## 14. SPECIAL INSTRUCTIONS AND OR RESTRICTIONS

- 1. No off road traffic allowed
- 2. No wood collection or tree cutting allowed.
- 3. Disturbing, dislodging, damaging, defacing, destroying or removing historical archaeological, paleontological or cultural sites or artifacts is prohibited.
- 4. Disturbing, dislodging, damaging, defacing, destroying any improvement, fixture, item, object or thing placed or located in, under or upon the land is prohibited.
- 5. Entries to lands are limited to those State Lands with public access.
- 6. Any other activities not listed are not allowed unless prior written approval from the Commissioner of Public Lands is granted.

WITNESS the hands and seals of PERMITTEE and COMMISSIONER on the day and year first above written.

Telephone: 505 394 3481

PERMITTEE

ACKNOWLEDGMENT

STATE OF N	NEW MEXICO		41 44			
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Closure Proposal Approval Letter - October 7, 2004



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

HILL RICHARDSON
GARRES
Jounes Prokes

Lori Wrotenbery Bisater Off Conservation Division

October 7, 2004

Mr. Stephen Weathers
Duke Energy Field Services, Inc.
370 17th St., Suite 900
Denver, Colorado 80202

RE: NMG-148C PIPELINE RELEASE SITE

**ELDRIDGE RANCH ABATEMENT PLAN AP-33** 

MONUMENT, NEW MEXICO

Dear Mr. Weathers:

The New Mexico Oil Conservation Division (OCD) has reviewed the following Duke Energy Field Services' (Duke) February 25, 2004 "SOIL REMEDIATION STATUS AND CLOSURE PROPOSAL, NMG-148C PIPELINE RELEASE, LEA COUNTY, NEW MEXICO (UNIT N, SECTION 16, T19S R37E)" and accompanying January 2004 "NMG-148C RELEASE SITE, SOIL REMEDIATION STATUS AND CLOSURE PROPOSAL." These documents contain Duke's proposal for the remediation of soils and closure of the excavation at the NMG-148C Pipeline Release Site located at the north end of the Eldridge Ranch Abatement Plan (AP-33) Site.

The above-referenced proposal is approved with the following conditions:

- Duke shall obtain a composite sample from each 200 yards of backfill to demonstrate that the soils have been remediated to OCD soil guidance levels. The samples shall be analyzed for concentrations of BTEX (benzene, toluene, ethylbenzene and xylene) and total petroleum hydrocarbons (TPH) using EPA approved methods and quality assurance/quality control (QA/QC) procedures. A field PID reading of less than 100 ppm of organic vapor may be substituted for a laboratory measurement of BTEX.
- Only soils that meet the OCD's recommended soil remediation levels shall be placed back in the excavation.

- 3. Upon completion of the excavation activities, Duke shall install a ground water monitoring well directly adjacent to and downgradient of the excavated area to demonstrate that ground water in the source area has been remediated to New Mexico Water Quality Control Commission (WQCC) ground water standards.
- 4. The monitor well shall be installed and developed in accordance with OCD's prior investigation work plan approval.
- 5. No less than 24 hours after well development, ground water from the newly installed monitor well shall be purged, sampled and analyzed for concentrations of BTEX and polynuclear aromatic hydrocarbons using EPA approved methods and QA/QC procedures.
- 6. In order to provide a point in time snapshot of overall ground water conditions throughout the site, water quality sampling of the newly installed wells shall be coordinated to coincide with a sampling event of all previously installed monitoring wells.
- All wastes generated shall be disposed of at an OCD approved facility or in an OCD approved manner.
- 8. A comprehensive report containing the results of all remediation and investigation activities shall be submitted to the OCD Santa Fe Office by December 31, 2004 with a copy provided to the OCD Hobbs District Office. The report shall contain:
  - a. A comprehensive description and summary of the results of all past and present soil and ground water investigation, remediation and monitoring activities.
  - b. A site map showing the location of pipelines, excavations, spills, monitoring wells, recovery wells, and any other pertinent site features.
  - c. Summary tables of all past and present soil and ground water quality sampling results including copies of all recent laboratory analytical data sheets and associated OA/OC data.
  - d. The disposition of all wastes generated.
- Duke shall notify the OCD at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not relieve Duke of responsibility if the plan fails to adequately remediate and investigate the extent of contamination related to Duke's activities, or if contamination exists which is outside the scope of the plan. In addition, OCD approval does not relieve Duke of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

Original signed by William C. Olson

William C. Olson Hydrologist Environmental Bureau

cc: Chris Williams, OCD Hobbs District Office
 Frank Eldridge
 Gene Samberson, Heidel, Samberson, Newell, Cox & McMahon
 Robert G. McCorkle, Rodey, Dickason, Sloan, Akin & Robb



Final form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Form C-141

Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

•				□ In	itial Report	
Name of Company:			Contac		iniai report	Z I mai report
Address	<u>:</u>			one No.		
:						
Facility Name			Facility	Type		
Surface Owner:			Mine	ral Owner		Lease No.
Unit Letter Section To	ownship Range	Feet from the Nort	h/South Line	Feet from the	East/West Line	County: Lea
	Latitude:	32 39' 21.32"N	Lo	ongitude: 10	)3 15' 32.90"W	_
Type of Release			Volume of	Release	V	olume Recovered
Source of Release			Date and I	Hour of Occurre	ence D	ate and Hour of Discovery
Was Immediate Notice Given?	? 🛛 Yes 🗌 No	☐ Not Paguired	If YES, To	Whom?		
By Whom?	⊠ 163 □ 140		Date and I	Hour	<del></del> -	
W W T			ICALEC M.	T	41-317	
Was a Watercourse Reached?  If a Watercourse was Impacted	Yes No		II YES, VO	olume Impacting	g the Watercours	ę.
•	•		W +7*			
Describe Cause of Problem an  4" Steel Pipeline		*				
Describe Area Affected and Cl 2,536 sqft ~95 x 40': Site se		NMOCD standard	s and the surf	ace contoured	Reseeding will on	cur in the spring of 2005
Remedial Goals: TPH 8015m mg/Kg or <100 ppm VOC Ho	a = 100 mg/Kg, Benzene	= 10  mg/Kg, and  B'	TEX, i.e., the	mass sum of Be	nzene, Ethyl Ben	example 2003.  Example 2003.  Example 2003.  Example 2003.
I hereby certify that the inform		and complete to the	best of my kn	owledge and un	derstand that pur	suant to NMOCD rules and
regulations all operators are red	quired to report and/or fi	le certain release noti	ifications and	perform correct	ive actions for rel	leases which may endanger public
health or the environment. The their operations have failed to						
environment. In addition, NM	MOCD acceptance of a C-	141 report does not	relieve the ope	erator of respons	sibility for compl	iance with any other federal,
state, or local laws and/or regu	ulations.					
Signature:						
D. IN C. W.				11 D		
Printed Name: Steve Weat	hers		Appi	roved by Distr	ict Supervisor:	
E-mail Address: SWWeath	ners@Duke-Energy.con	า	App	roval Date:		Expiration Date:
Title: Environmental Proje	ects Manager		Cond	ditions of App	roval:	Attached
Date: December 27, 200	14 Pho	ne: 303.605.1718				

^{*} Attach Additional Sheets If Necessary