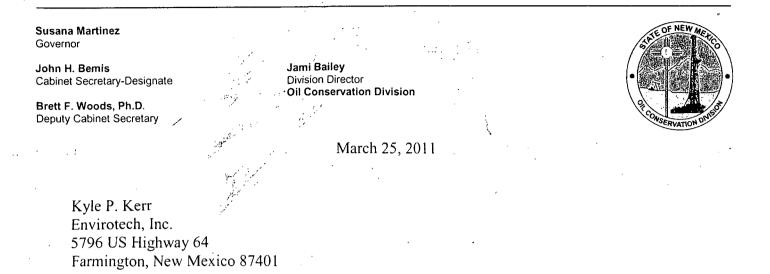
NM1 - ____11

APPROVALS

YEAR(S):

2011

New Mexico Energy, Minerals and Natural Resources Department



RE: Request for Approval to Apply a Successive Lift Envirotech, Inc. Commercial Landfarm #2: Permit NM-1-0011 Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM San Juan County, New Mexico

Dear Mr. Kerr:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated May 23, 2011 to grant approval to apply an additional six-inch lift to the following cell(s): Cells 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20.

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Envirotech shall ensure that the application of an additional six-inch lift of contaminated soils to the above referenced *landfarm cells <u>do not exceed the maximum thickness of two feet or 3000 cubic yards</u> <u>per acre limit</u> as specified in 19.15.36.15 NMAC. The "parameter for cubic yardages of 15,000 or less to be applied in each five (5) acre cell," as stated in the May 23, 2011 request, is not equivalent to the regulatory requirement is identified above.*

It is OCD's understand, from conversations with Mr. Kyle Kerr; that <u>the thickness of the treatment</u> <u>zone for each cell would be measured</u> and confirmed during the next vadose zone sampling event. The first attempt at satisfying this request did not provide the information requested by OCD. Of the eight documents provided in the May 23, 2011 submittal, very few distinguished which soil profiles represented the treatment zone, the grid scale was not utilized to clearly support the drawings, and one indicated (correctly or incorrectly) that the treatment zone was 32 inches thick.

Oil Conservation Division 1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3440 • Fax (505) 476-3462 • www.emnrd.state.nm.us/OCD

Envirotech, Inc. Commercial Landfarm #2 Permit NM-1-0011 May 25, 2011 Page 2 of 2

Please provide a format that clearly demonstrates the thickness of the treatment zone in future requests. Also, please note that with the addition of successive lifts Envirotech must initiate treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or <u>brad.a.jones@state.nm.us</u>.

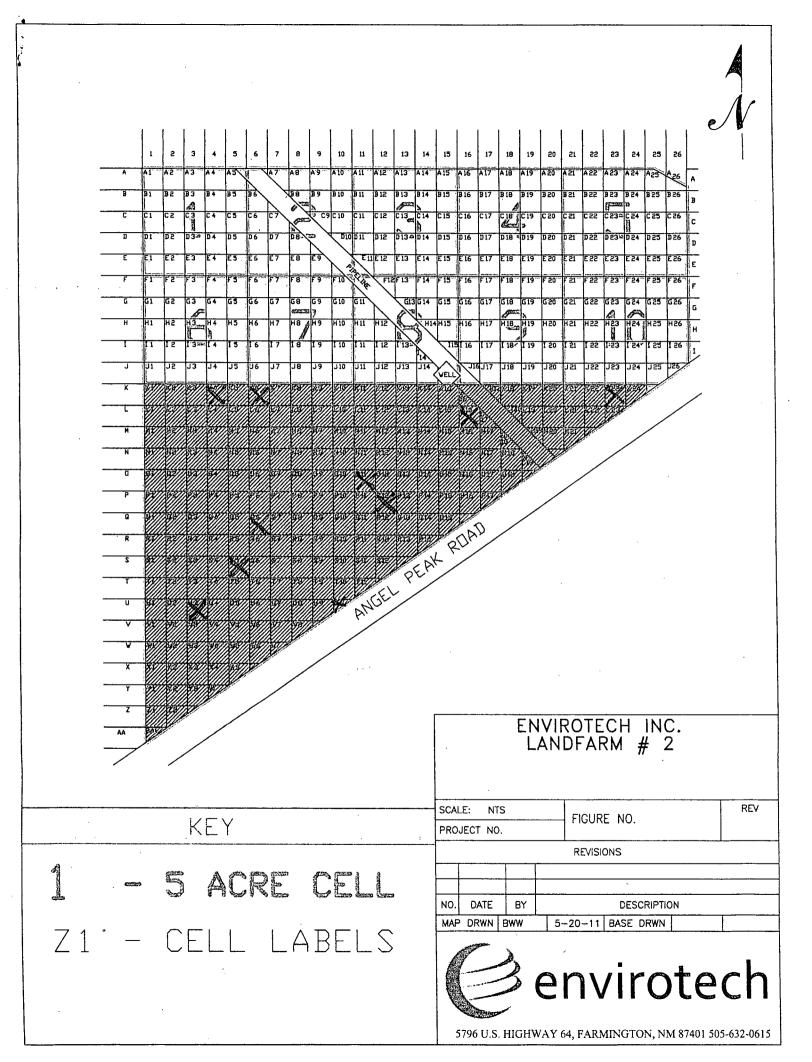
Sincerely,

4 Brad A-Jone Environmental Engineer

BAJ/baj

Attachment: Facility Map (Revision Date: May 20, 2011)

cc: OCD District III Office, Aztec





May 23, 2011

RECEIVED OCD

Mr. Brad Jones New Mexico Oil Conservation District 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: ENVIROTECH'S DISCONTINUED MAINTENANCE AND ADDITIONAL LIFT FOR: CELLS 11, 12, 13, 14, 15, 16, 17, 18, 19 AND 20 IN LANDFARM 2.

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for discontinued maintenance at Envirotech's Land Farm #2 for cells 11, 12, 13, 14, 15, 16, 17, 18, 19 AND 20 in Landfarm 2 located near Hilltop, New Mexico. The area being submitted is shown on the attached map, marked by blue crosshatch design. Individual units are marked by a black "X". As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2000 all cells being requested for discontinued maintenance have passed laboratory analysis of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm Benzene. In addition, Envirotech has sampled for chlorides. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five acres. Samples were five-point composites. Vadose zone sampling maps of individual units with depth measurements are included.

The blue cells (11, 12, 13, 14, 15, 16, 17, 18, 19 AND 20) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene and total xylenes as well as chlorides (see attached laboratory results). Envirotech hereby requests these cells be granted discontinued maintenance status and approval to apply an additional lift of qualifying material to these cells.

Given the parameter for cubic yardages of 15,000 or less to be applied in each five (5) acre cell, we are happy to provide the following cubic yard amounts and depth of the treatment zone in a unit in each cell up to this time:

 Cell 11: 9,866 cy (Unit K4-16")
 Cell 12: 10,734 cy (Unit M6-17")
 Cell 13: 9,140 cy (Unit O11-16")

 Cell 14: 5,103 cy (Unit L16-8")
 Cell 15: 4,407 cy (Unit K23-7")
 Cell 16: 10,190 cy (Unit S5-16")

 Cell 17: 8,818 cy (Unit Q6-14")
 Cell 18: 5,876 cy (Unit P12-9")
 Cell 19: 8,116 cy (UnitU3-13")

 Cell 20: 2,192 cy (Unit U10-3")
 Cell 18: 5,876 cy (Unit P12-9")
 Cell 19: 8,116 cy (UnitU3-13")

Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter that to serve the Four Corners region without interruption.

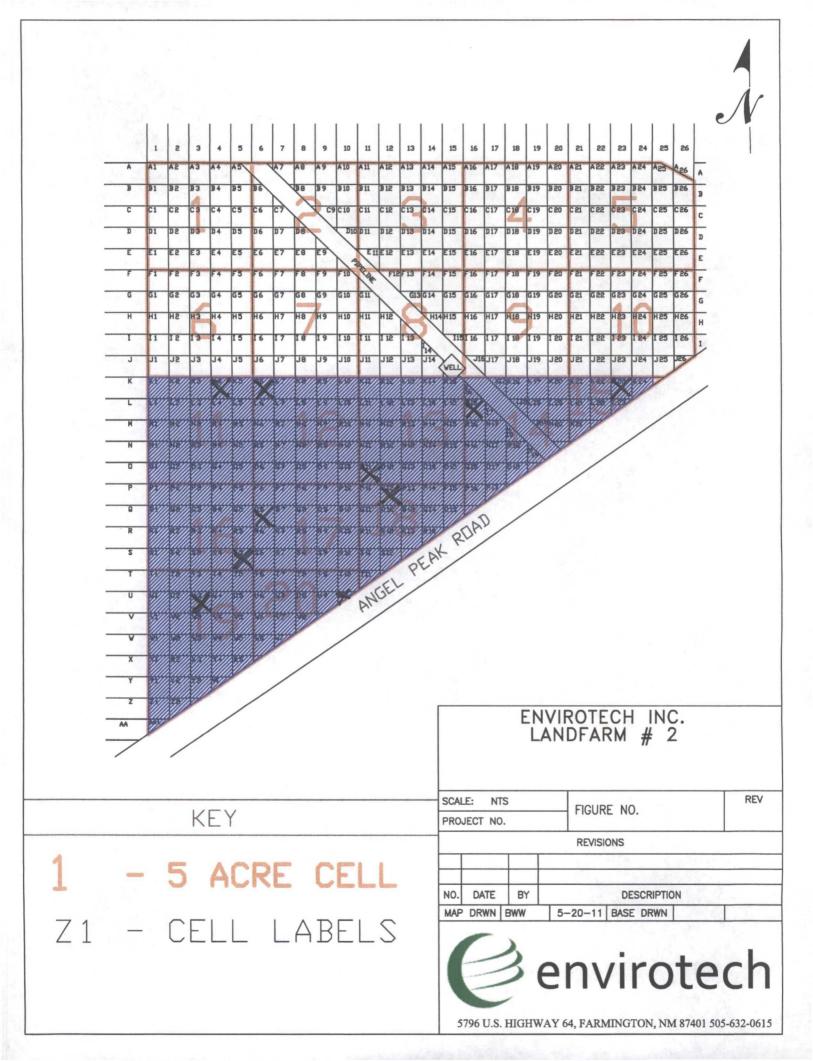
Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

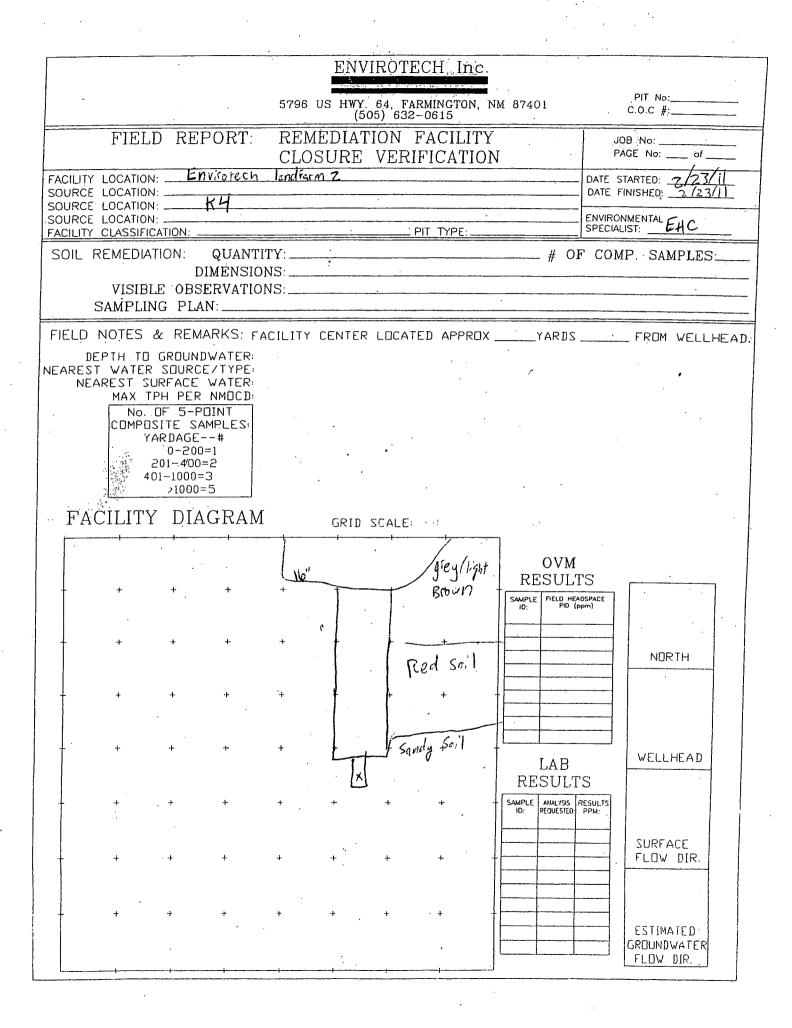
Respectfully submitted Envirotech, Inc

Kyle P. Kerr Vice President/CHMM <u>kpkerr@envirotech-inc.com</u>

April E.Þohl Landfarm Administrator <u>apohl@envirotech-inc.com</u>

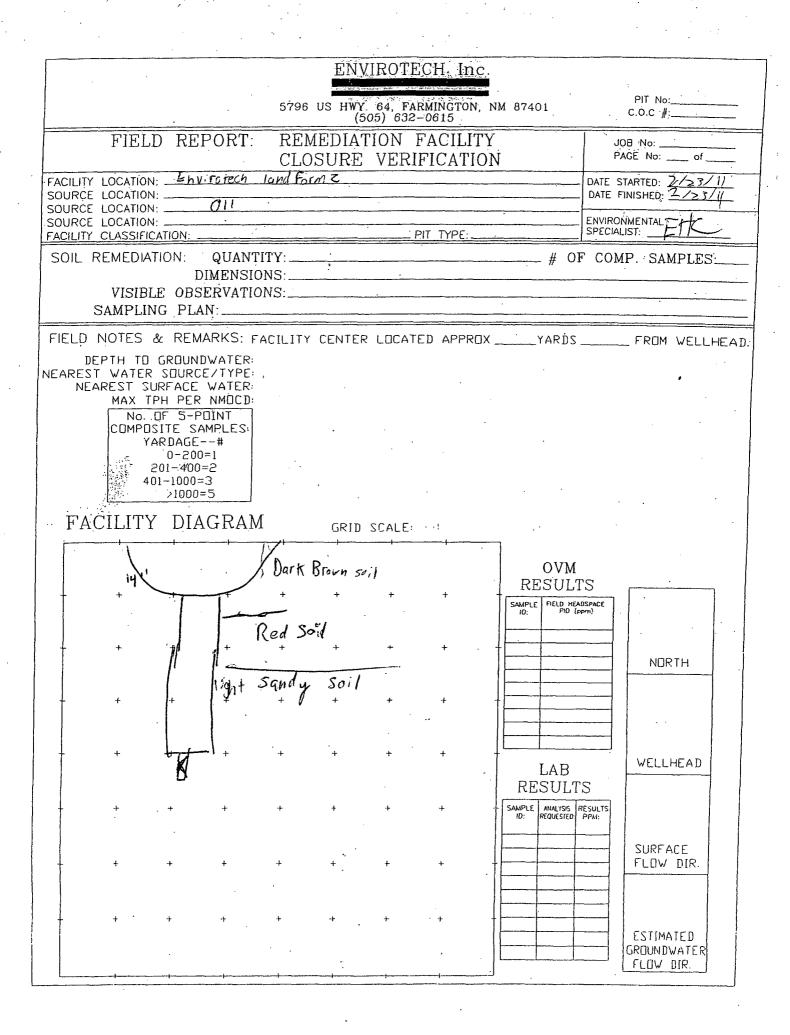
AEP/Office/Corporate/LF/Closure&added lift/5-23-11



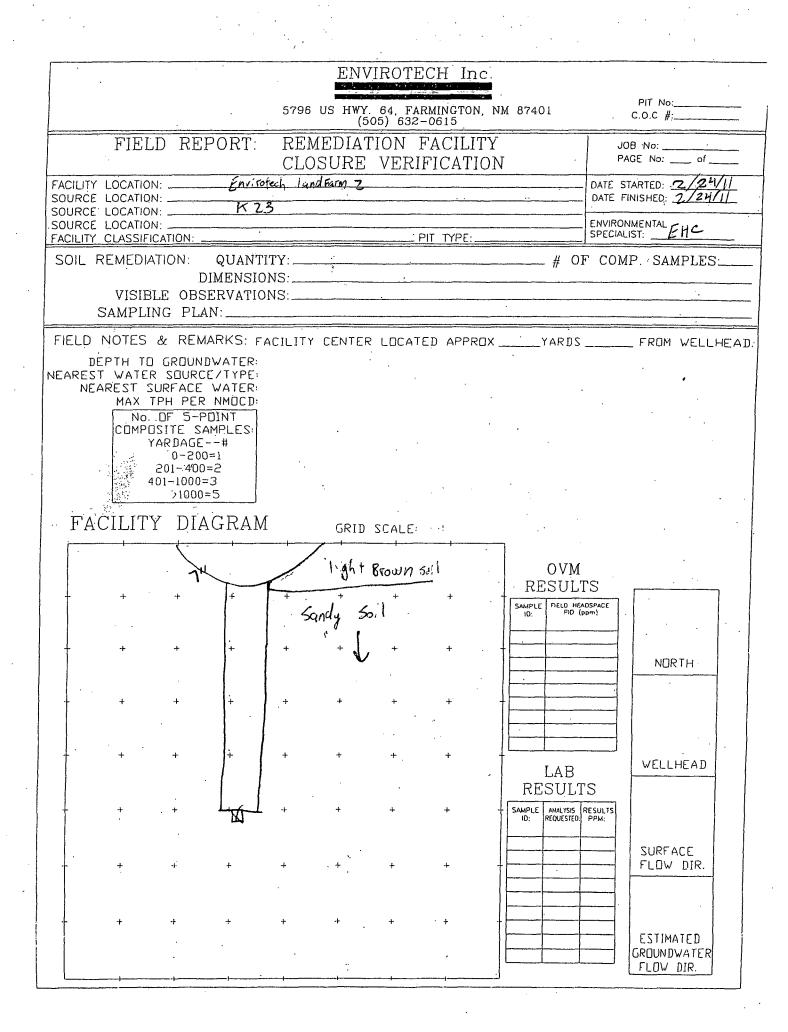


								. · ·		·	·
	<u>,</u>			· · · · · · · · · · · · · · · · · · ·		EŊV	IROTECH	I Inc.			
					579	6 US HWY (5	. 64. FARMI 05) 632-06	NGTON, N 15	M 87401		PIT No: O.C #:
		FIEI	LD RE	PORT:			TION FA VERIFI				No: of
				Virotech	Land	Farm Z	·····				RTED: 2/23/1
s	DURCE.)N:	MG			· · · · · · · · · · · · · · · · · · ·				SHED: 2/23//
			N: ICATION:		•		PIT	ТҮРЕ:	<u> </u>	SPECIALIST	ENTAL EHC
			ATION:	QUAN' DIMENSI			· · · ·			F COMP	· SAMPLES
	(SERVATI							·
F	IELD	NOTES	& REI	MARKS:	FACILIT	Y CENTER	COCATED	APPROX	YARDS		FROM WELLHE
NE	ARES	r WATE AREST MAX	R SOUR SURFACE TPH PE	IDWATER CE/TYPE WATER R NMOCD	:						• •
		COMP	YARDAGE 0-20 201-40	AMPLES: # 0=1 0=2			. * •				· · · .
		<u></u>	401-1000 >1000)=5	.r						
	ŀA'	_1L11 	Y D1.	AGRAI	VI +		SCALE: ·		 		
						61"		Poct;	brow gray	x 50,-1	
	+	+	+	+	+	ł	Back 5	oqil	RESUL'	TS r	
	Ļ	+	+	+	+	1	Red	So: - /			
								·			NORTH
	Ţ	+	- -	τ ,	т.	Ĩ	Sandy So	+			
	. 	÷	+	÷	. +	+ []_	+ 20 20	й і +	LAB		WELLHEAD
	+	-].	. +	+	+	נ <u>ו</u> +	+	+	RESULT SAMPLE ANALYSIS ID: REQUESTED		
		+ +	+	÷	+	, . +	+	4			SURFACE FLOW DIR.
		-				•					
		+	-+	+	+	+ .	+ ·	+ ·			ESTIMATED
1	1										ROUNDWATER FLOW DIR.

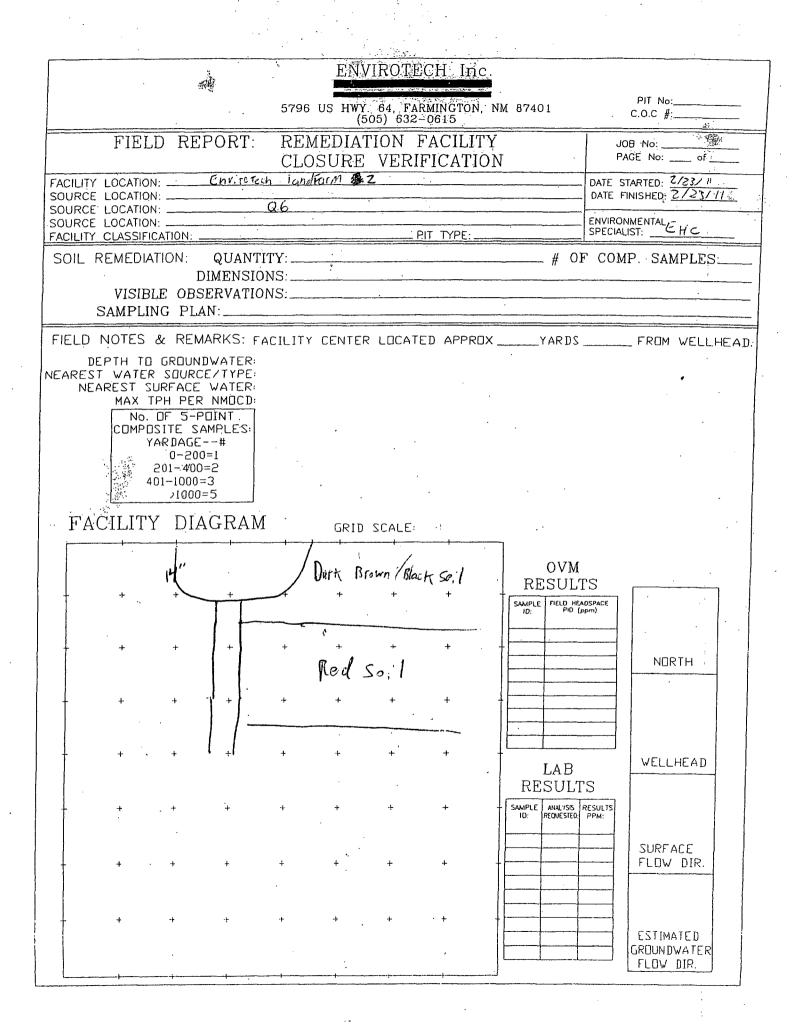
· · · ·



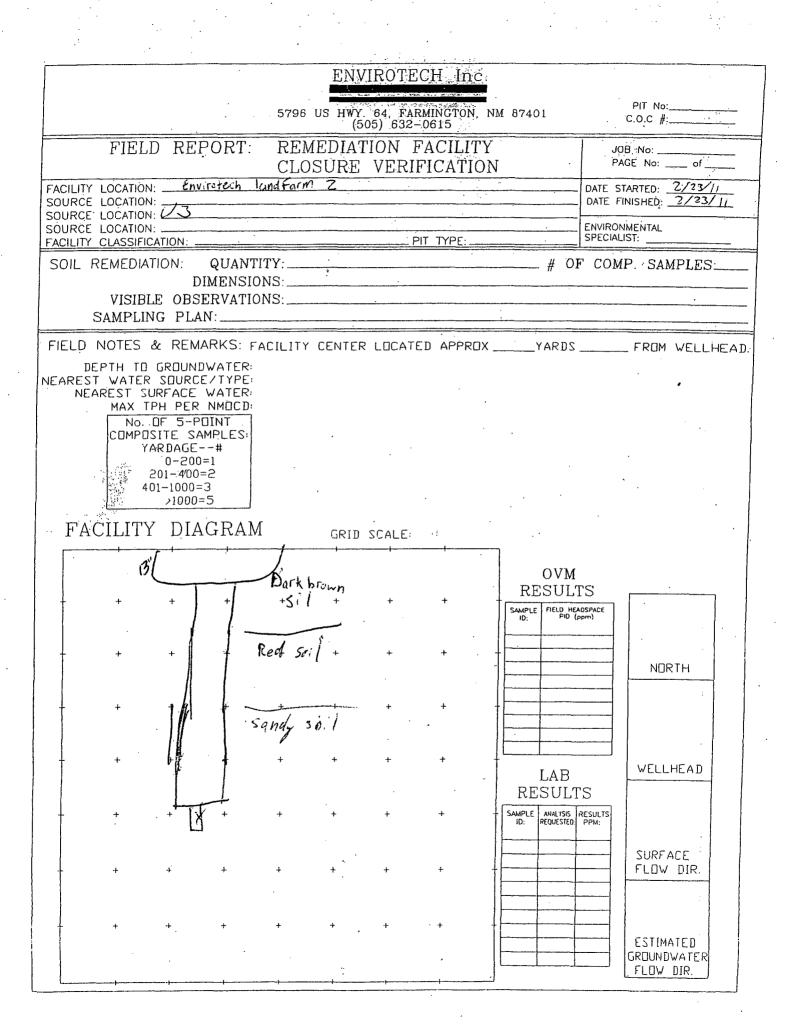
· ·	ENVIROTE	CH Inc		
	5796 US HWY. 64, FA (505) 632	RMINGTON, NM -0615	87401	PIT No: . C.O.C #:
FIELD REPORT:	REMEDIATION CLOSURE VERI			JOB No: PAGE No: of
FACILITY LOCATION:Andfarm	2			ATE STARTED: <u>8/24/1</u> ATE FINISHED:
SOURCE LOCATION: SOURCE LOCATION: FACILITY CLASSIFICATION:			E	NVIRONMENTAL PECIALIST: <u>Kc</u>
NEAREST WATER SOURCE/TYPE NEAREST SURFACE WATER MAX TPH PER NMOCD No. DF 5-POINT COMPOSITE SAMPLES YARDAGE# 0-200=1 201-400=2 401-1000=3 >1000=5 FACILITY DIAGRAM			· · ·	•
	GRID SCALE:		OVM	
	Z'b rods Thin somple	ioj/,	RESULTS	
- + + +	+ + +	+ -	LAB RESULTS	
	+ + + ···	+ +	SAMPLE ANALYSIS RE ID: REQUESTED: P	SURFACE
+ + +	+ + +	+ -		ESTIMATED
		,		GROUNDWATER

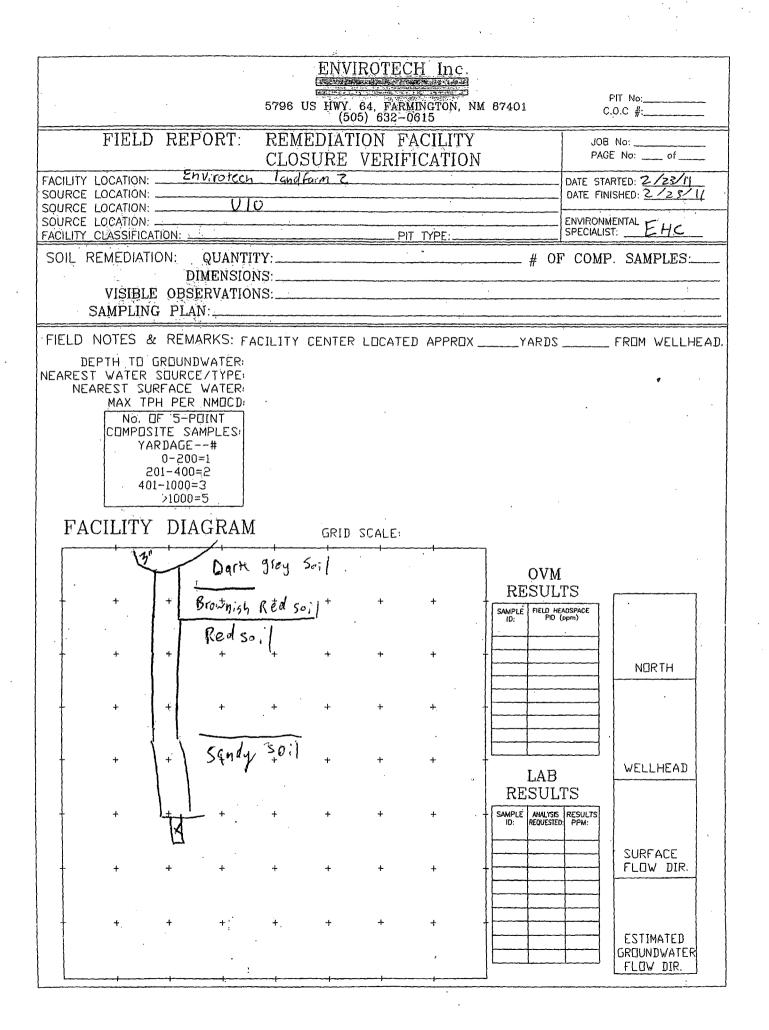


ENVIROTECH Inc. 7 PIT No: 5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615 C.O.C #:___ FIELD REPORT: REMEDIATION FACILITY JOB No: PAGE No: CLOSURE VERIFICATION ∵ of Geni 2 FACILITY LOCATION: KALISTE DATE STARTED: 3/14/11 SOURCE LOCATION: . DATE FINISHED: 3/17/14 SOURCE LOCATION: ENVIRONMENTAL EAC SOURCE LOCATION: FACILITY CLASSIFICATION. PIT TYPE: SOIL REMEDIATION: QUANTITY: _ # OF COMP. SAMPLES: DIMENSIONS: VISIBLE OBSERVATIONS SAMPLING PLAN:__ FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____YARDS ____ _ FROM WELLHEAD. DEPTH TO GROUNDWATER: NEAREST WATER SOURCE/TYPE: NEAREST SURFACE WATER MAX TPH PER NMOCD: No. OF 5-POINT COMPOSITE SAMPLES YARDAGE--# 0-200=1 201-4/00=2 401-1000=3 >1000=5 FACILITY DIAGRAM GRID SCALE: ... OVM RESULTS SAMPLE FIELD HEADSPACE restrevit NORTH WELLHEAD LAB RESULTS SAMPLE ANALYSI RESULTS 1-13 bit Sandiz Nudive X SURFACE FLOW DIR. ESTIMATED GROUNDWATER FLOW DIR.



ENVIROTECH Inc. TRACES -----FIT No: 5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615 . C.O.C #:____ **REMEDIATION FACILITY** FIELD REPORT: JOB No: ____ PAGE No: ____ of CLOSURE VERIFICATION Envirotech landFarm 2 DATE STARTED: 2/23/11 FACILITY LOCATION: _ DATE FINISHED: 2/23/11 SOURCE LOCATION: ____ PIZ SOURCE LOCATION: ____ ENVIRONMENTAL SPECIALIST: EHC SOURCE LOCATION: -FACILITY CLASSIFICATION: PIT TYPE:___ ______ # OF COMP. SAMPLES:_____ SOIL REMEDIATION: QUANTITY: DIMENSIONS:__ VISIBLE OBSERVATIONS:__ SAMPLING PLAN:__ FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____YARDS _____ FROM WELLHEAD. DEPTH TO GROUNDWATER: NEAREST WATER SOURCE/TYPE: NEAREST SURFACE WATER: MAX TPH PER NMOCD: No. OF 5-POINT COMPOSITE SAMPLES YARDAGE--# 0-200=1 201-400=2 401-1000=3 >1000=5 FACILITY DIAGRAM GRID SCALE: OVM RESULTS SAMPLE FIELD HEADSPACE Dark brown soil 4 NORTH Red so, 7 + Red sandy Soi + WELLHEAD LAB RESULTS rght Sands Soi SAMPLE ANALYSIS RESULTS ID: REQUESTED: PPM: SURFACE FLOW DIR. ESTIMATED GROUNDWATER FLOW DIR.







Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 11	Date Reported:	05-11-11
Laboratory Number:	58079	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	11.0	0.1
Total Petroleum Hydrocarbons	11.0	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Analyst

Rev lew



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 12	Date Reported:	05-11-11
Laboratory Number:	58080	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.7	0.2
Diesel Range (C10 - C28)	64.7	0.1
Total Petroleum Hydrocarbons	68.4	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Analyst

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 13	Date Reported:	05-11-11
Laboratory Number:	58081	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.5	0.2
Diesel Range (C10 - C28)	28.9	0.1
Total Petroleum Hydrocarbons	34.4	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Land Farm 2 Closure

а 4

Analyst

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 14	Date Reported:	05-11-11
Laboratory Number:	58082	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

4

Analyst

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 15	Date Reported:	05-11-11
Laboratory Number:	58083	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

2

Analyst

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 17	Date Reported:	05-11-11
Laboratory Number:	58084	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Analyst



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 18	Date Reported:	05-11-11
Laboratory Number:	58085	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

M

Analyst

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 19	Date Reported:	05-11-11
Laboratory Number:	58086	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Analyst

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 20	Date Reported:	05-11-11
Laboratory Number:	58087	Sampled:	05-04-11
Chain of Custody No:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Extracted:	05-05-11
Preservative:	Cool	Date Analyzed:	05-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

Analyst

Review



Quality Assurance Report

Client:	QA/QC		Project #:	<u> </u>	N/A
Sample ID:	05-09-11 QA	VQC	Date Reported:		05-11-11
Laboratory Number:	58106		Date Sampled:		N/A
Sample Matrix:	Methylene Ch	loride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		05-09-11
Condition:	N/A		Analysis Requested	d:	ТРН
	I-Cal Date	ILCOUDE.		(/D:#	A
	40672	9.996E+02		0.04%	Accept: Range
Gasoline Range C5 - C10	40672	9.996E+02 9.996E+02			0 - 15%
Diesel Range C10 - C28	40072	9.9900-+02	1.000=+03	0.04%	0 - 15%
Blank Conc. (mg/L - mg/K	g) (Concentration	De	tection Limi	
Gasoline Range C5 - C10		10.4		.2	ai
Diesel Range C10 - C28		3.3	0	.1	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range	
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%	
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	201	80.5%	75 - 125%
Diesel Range C10 - C28	ND	250	248	99.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 58106, 58078-58087

14

Analyst

Review



Client:	Envirotech		Project #:		1-02-60002
Sample ID:	Cell 11		Date Reported:		05-16-11
Laboratory Number:	58079		Date Sampled:		05-04-11
Chain of Custody:	11640		Date Received:		05-04-11
Sample Matrix:	Soil		Date Analyzed:		05-10-11
Preservative:	Cool		Date Extracted:		05-05-11
Condition:	Intact		Analysis Requested:		BTEX
			Dilution:		10
Parameter		Concentration (ug/Kg)		Det. Limit (ug/Kg)	
Benzene Toluene		ND ND		0.9 1.0	
Ethylbenzene		ND		1.0	
• •		1.2		1.2	
p,m-Xylene o-Xylene		1.2 ND		1.2 0.9	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94.8 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	103 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

61

Analyst



Client:	Envirotech	Project	#:	1-02-60002
Sample ID:	Cell 12	Date Re	ported:	05-16-11
Laboratory Number:	58080	Date Sa	mpled:	05-04-11
Chain of Custody:	11640	Date Re	ceived:	05-04-11
Sample Matrix:	Soil	Date Ar	alyzed:	05-10-11
Preservative:	Cool	Date Ex	tracted:	05-05-11
Condition:	Intact	Analysis	Requested:	BTEX
		Dilution		10
Parameter		Concentration (ug/Kg)	De Lim (ug/Kg	it
		·······		
Benzene		ND	0.	
Toluene Ethylbenzene		ND ND	1. 1.	0 0
Toluene		ND	1.	0 0 2

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	102 %
	1,4-difluorobenzene	103 %
	Bromochlorobenzene	103 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

, 1

Analyst



Client:	Envirotech	I	Project #:		1-02-60002
Sample ID:	Cell 13	I	Date Reported:		05-16-11
Laboratory Number:	58081	I	Date Sampled:		05-04-11
Chain of Custody:	11640	I	Date Received:		05-04-11
Sample Matrix:	Soil	I	Date Analyzed:		05-10-11
Preservative:	Cool	I	Date Extracted:		05-05-11
Condition:	Intact		Analysis Requested:		BTEX
		l	Dilution:		10
				Det.	
		Concentration		Limit	
Parameter		(ug/Kg)		(ug/Kg)	
Benzene		ND		0.9	
Toluene		ND		1.0	
Ethylbenzene		ND		1.0	
-					
p,m-Xylene		2.2		1.2	
o-Xylene		1.8		0.9	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.4 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	97.2 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

Analyst



Client:	Envirotech		Project #:		1-02-60002
Sample ID:	Cell 14		Date Reported:		05-16-11
Laboratory Number:	58082		Date Sampled:		05-04-11
Chain of Custody:	11640		Date Received:		05-04-11
Sample Matrix:	Soil		Date Analyzed:		05-10-11
Preservative:	Cool		Date Extracted:		05-05-11
Condition:	Intact		Analysis Requested:		BTEX
			Dilution:		10
Parameter				Det. Limit	
		(ug/Kg)		(ug/Kg)	
Benzene		ND		0.9	
Benzene Toluene		ND ND		0.9 1.0	
Benzene Toluene Ethylbenzene		ND ND ND		0.9 1.0 1.0	
Benzene Toluene Ethylbenzene p,m-Xylene		ND ND ND ND		0.9 1.0 1.0 1.2	
Benzene Toluene Ethylbenzene		ND ND ND		0.9 1.0 1.0	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95.3 %
	1,4-difluorobenzene	102 %
	Bromochlorobenzene	104 [·] %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

4

Analyst



Client:	Envirotech	Project	#:	1-02-60002
Sample ID:	Cell 15	•	eported:	05-16-11
Laboratory Number:	58083		ampled:	05-04-11
Chain of Custody:	11640	Date Re	eceived:	05-04-11
Sample Matrix:	Soil	Date Ar	nalyzed:	05-10-11
Preservative:	Cool	Date Ex	dracted:	05-05-11
Condition:	Intact	Analysis	s Requested:	BTEX
		Dilution	:	10
			De	et.
		Concentration	Lim	nit
Parameter		(ug/Kg)	(ug/K	g)
Benzene		ND	0	.9
Toluene		ND	1	.0
Ethylbenzene		ND	1	.0
p,m-Xylene		ND	1	.2
o-Xylene		1.7	0	.9
Total BTEX		1.7		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	103 %
	Bromochlorobenzene	101 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

61

Analyst





Client:	Envirotech	Project #:	1-02-600	02
Sample ID:	Cell 17	Date Reported	. 05-16-11	
Laboratory Number:	58084	Date Sampled:	05-04-11	
Chain of Custody:	11640	Date Received	. 05-04-11	
Sample Matrix:	Soil	Date Analyzed	05-10-11	
Preservative:	Cool	Date Extracted	: 05-05-11	
Condition:	Intact	Analysis Requ	ested: BTEX	
		Dilution:	· 10	
Parameter		Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene Toluene		ND ND	0.9 1.0	
Ethylbenzene		ND	1.0	
p,m-Xylene		ND	1.2	
• • •		4 5	0.9	
o-Xylene		1.5	0.9	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.8 %
	1,4-difluorobenzene	94.6 %
	Bromochlorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

Analyst





Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 18	Date Reported	05-16-11
Laboratory Number:	58085	Date Sampled:	05-04-11
Chain of Custody:	11640	Date Received:	05-04-11
Sample Matrix:	Soil	Date Analyzed:	05-10-11
Preservative:	Cool	Date Extracted	05-05-11
Condition:	Intact	Analysis Reque	ested: BTEX
		Dilution:	10
			Det.
		Concentration	Limit
Parameter		(ug/Kg)	(ug/Kg)
Benzene		ND	0.9
Toluene		ND	1.0
Ethylbenzene		ND	1.0
p,m-Xylene		ND	1.2
-			
p,m-Xylene		ND	1.2
o,m-Xylene		ND	1.2

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	101 %
	1,4-difluorobenzene	102 %
	Bromochlorobenzene	101 %

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, References: December 1996.

> Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure







Benzene Toluene Ethylbenzene		ND ND ND	0.9 1.0 1.0	
Parameter		Concentration (ug/Kg)	Det. Limit (ug/Kg)	
		Dilution:	10	
Condition:	Intact	Analysis Re	quested: BTEX	(
Preservative:	Cool	Date Extrac		
Sample Matrix:	Soil	Date Analyz		
Laboratory Number: Chain of Custody:	58086 11640	Date Sampl Date Receiv		
Sample ID:	Cell 19	Date Report		
Client:	Envirotech	Project #:	1-02-	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery		
	Fluorobenzene	100 %		
	1,4-difluorobenzene	103 %		
	Bromochlorobenzene	101 %		

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

ort

Analyst

Review



Parameter		Concentration (ug/Kg)		Det. Limit (ug/Kg)	
			Dilution:		10
Condition:	Intact		Analysis Requested:		BTEX
Preservative:	Cool		Date Extracted:		05-05-11
Chain of Custody: Sample Matrix:	11640 Soil		Date Received: Date Analyzed:		05-04-11 05-10-11
Laboratory Number:	58087		Date Sampled:		05-04-11
Sample ID:	Cell 20		Date Reported:		05-16-11
	Envirotech		Project #:		1-02-60002

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery		
	Fluorobenzene	96.4 %		
	1,4-difluorobenzene	107 %		
	Bromochlorobenzene	104 %		

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closure

21 С

Analyst



Client:	N/A		Project #:	N	/A
Sample ID:	0510BBLK QA/Q	QC	Date Reported:	05	5-16-11
Laboratory Number:	58078		Date Sampled:	N	/A
Sample Matrix:	Soil		Date Received:	N	/A
Preservative:	N/A		Date Analyzed:	05	5-10-11
Condition:	N/A		Analysis:	B	TEX
			Dilution:	10	
Calibration and	l <u>-C</u> al/RF	C-Cal RF:	%Diff.	Blank	Detect
Detection Limits	: (ug/L)	Accept: Ran	ge 0 - 15%	Conc	Limit
Benzene	4.4673E+006	4.4762E+006	0.2%	ND	0.1
Toluene	1.5156E+006	1.5186E+006	0.2%	ND	0.1
Ethylbenzene	1.0969E+006	1.0991E+006	0.2%	ND	0.1
p,m-Xylene	2.3417E+006	2.3463E+006	0.2%	ND	0.1
o-Xylene	8.5484E+005	8.5656E+005	0.2%	ND	0.1
Duplicate Conc. (u g/Kg)	Duplicate	%Diff.	Accept Range	Detect. Limi
Benzene	N	D ND	0.0%	0 - 30%	0.9
Toluene	NI	D ND	0.0%	0 - 30%	1.0
Ethylbenzene	NI	D ND	0.0%	0 - 30%	1.0
p,m-Xylene	N	D ND	0.0%	0 - 30%	1.2
o-Xylene	1.	4 1.4	0.0%	0 - 30%	0.9
Spike Conc: (ug//	(g). Sample :: :	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	N	D 500	502	100%	39 - 150
Toluene	N		562	112%	46 - 148
Ethylbenzene	N			109%	40 - 148 32 - 160
p,m-Xylene	N				
• •				107%	46 - 148
o-Xylene	1.	.4 500	537	107%	46 - 148
	detected at the stated detection limit.	a allo dia a successione			
Dilution: Spike and s	spiked sample concentration represent	a dilution proportiona	al to sample dilution.		
References:	Method 5030B, Purge-and-Trap, Test M December 1996.	lethods for Evaluating S	Solid Waste, SW-846, U	JSEPA,	

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

QA/QC for Samples 58078-58087 **Comments:** う 1 Analyst



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 11	Date Reported:	05/11/11
Lab ID#:	58079	Date Sampled:	05/04/11
Sample Matrix:	Soil	Date Received:	05/04/11
Preservative:	Cool	Date Analyzed:	05/06/11
Condition:	Intact	Chain of Custody:	11640

Parameter

Concentration (mg/Kg)

Total Chloride

40

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Review

Comments:

Land Farm 2 Closure

η с

Analyst



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 12	Date Reported:	05/11/11
Lab ID#:	58080	Date Sampled:	05/04/11
Sample Matrix:	Soil	Date Received:	05/04/11
Preservative:	Cool	Date Analyzed:	05/06/11
Condition:	Intact	Chain of Custody:	11640

Parameter

Concentration (mg/Kg)

Total Chloride

15

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Land Farm 2 Closure

Analyst

	\sim	
Δ	A	
Review	_	()
\mathcal{V}		



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 13	Date Reported:	05/11/11
Lab ID#:	58081	Date Sampled:	05/04/11
Sample Matrix:	Soil	Date Received:	05/04/11
Preservative:	Cool	Date Analyzed:	05/06/11
Condition:	Intact	Chain of Custody:	11640

Parameter

Concentration (mg/Kg)

Total Chloride

45

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Hew

Comments:

Land Farm 2 Closure

Analyst



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 14	Date Reported:	05/11/11
Lab ID#:	58082	Date Sampled:	05/04/11
Sample Matrix:	Soil	Date Received:	05/04/11
Preservative:	Cool	Date Analyzed:	05/06/11
Condition:	Intact	Chain of Custody:	11640

Parameter

Concentration (mg/Kg)

Total Chloride

50

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Land Farm 2 Closure

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 15	Date Reported:	05/11/11
Lab ID#:	58083	Date Sampled:	05/04/11
Sample Matrix:	Soil	Date Received:	05/04/11
Preservative:	Cool	Date Analyzed:	05/06/11
Condition:	Intact	Chain of Custody:	11640

Parameter

Concentration (mg/Kg)

Total Chloride

25

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Land Farm 2 Closure

Analyst

Revje



Envirotech	Project #:	1-02-60002
Cell 17	Date Reported:	05/11/11
58084	Date Sampled:	05/04/11
Soil	Date Received:	05/04/11
Cool	Date Analyzed:	05/06/11
Intact	Chain of Custody:	11640
	Cell 17 58084 Soil Cool	Cell 17Date Reported:58084Date Sampled:SoilDate Received:CoolDate Analyzed:

Parameter

Concentration (mg/Kg)

Total Chloride

20

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Land Farm 2 Closure

Analyst

	\bigcirc	$\overline{\mathcal{R}}$	
Review		×)	



Envirotech	Project #:	1-02-60002				
Cell 18	Date Reported:	05/11/11				
58085	Date Sampled:	05/04/11				
Soil	Date Received:	05/04/11				
Cool	Date Analyzed:	05/06/11				
Intact	Chain of Custody:	11640				
	Cell 18 58085 Soil Cool	Cell 18Date Reported:58085Date Sampled:SoilDate Received:CoolDate Analyzed:				

Parameter

Concentration (mg/Kg)

Total Chloride

35

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Land Farm 2 Closure

Analyst



5796 US Highway 64, Farmington, NM 87401



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 19	Date Reported:	05/11/11
Lab ID#:	58086	Date Sampled:	05/04/11
Sample Matrix:	Soil	Date Received:	05/04/11
Preservative:	Cool	Date Analyzed:	05/06/11
Condition:	Intact	Chain of Custody:	11640

Parameter

Concentration (mg/Kg)

Total Chloride

40

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Land Farm 2 Closure

Ŷ7

Analyst

Review



Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 20	Date Reported:	05/11/11
Lab ID#:	58087	Date Sampled:	05/04/11
Sample Matrix:	Soil	Date Received:	05/04/11
Preservative:	Cool	Date Analyzed:	05/06/11
Condition:	Intact	Chain of Custody:	11640

Parameter

Concentration (mg/Kg)

Total Chloride

45

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Land Farm 2 Closure

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

Review

CHAIN OF CUSTODY RECORD

11640

Client:				Project Name /	oject Name / Location:											ANAL	YSIS	/ PAE		TERS	 -			
Envirotech				landfarm Z Closure						- P														
Client Address:				Sampler Name:							Î	Ê	6							×				
				EHC /	CT	>					TPH (Method 8015)	BTEX (Method 8021)	(Method 8260)	S										
Client Phone No.:				Client No.:	Y						po	hod	po	etal	ion		ΗH		=					act
				1-02-	-LOPC	17					Aeth	Met	Aeth	8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Sample No./	Sa	nple	Sample			ample		olume	Preserv	vative	€ H	Ш Ш	U U	RCRA	tion	-	Ĺ D	II	H	ĽÖ			mple	du di
Identification	D	ate	Time	Lab No.	N	Aatrix	c Conta	ainers	HgCi, HCi	1 aj	ЧŢ	BT	VOC	В В	Ca	BCI	10	PAH	L H	공	 		Sa	Sa
0011 1	19	=/.i_	9:45	58678	Soib	Sludge				17		L							<u> </u>	K	 		j	++
-cell-I	7.	17		00010	Solid	Aqueous	174	02		Ū	P										 			
Cell 11		1	9:45	58079	Solid	Sludge Aqueous			r	X	F	t								7			Г	r
Ceil IZ			9:15	58080	Solid	Sludge Aqueous				Y	f	r								7			\mathcal{F}	r
Cell 13			9:30	58081	Solid	Sludge Aqueous				2	r	8								2			r	r
Cell 14			9:00	58082	Solid	Sludge Aqueous				r	Y	F								д			\mathcal{F}	7
Cell 15			10:00	58083	Solid	Sludge Aqueous				F	ł	t								X			F	ŕ
Ceil 17			11:00		Solid	Sludge Aqueous				7	٢	r		-						8			r	r
cell 18			11 100		Solid	Sludge Aqueous				r	Г	J.								r			F	д
Cell 19			11:00	58086	Solid	Sludge Aqueous				8	r	5								Х			r	r
Cell ZO	¥ 		11:00	58087	Solid	Sludge Aqueous	4		٠,	H	F	r								ð			2	r
Relinquished by: (Sigr	nature)	1			Date		ime	Rec			(Signa	ature)	-							Da			me
		4	/ 			5/4/11		5.50	4		ne	0	00	rgr	·						 54	F/11	13:	50
Relinquished by: (Sigr	nature) /							Rec	ceive	d by:	(Signa	ature)											
Relinquished by: (Sigr	nature)							Rec	ceive	d by:	(Signa	ature)											
													<u> </u>								 			
					A			nv	ir	' ^	+	01	- h											Ì
								Anc	∎∎ itvie				🥩 🛿											
					9						•													
1				5796 U	S Highway	v 64 • Farmin	aton. N	JM 8740	01 • 50	05-63	2-061	5 • lat	o@env	irotecl	h-inc.c	om								



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	16	Date Reported:	01-24-11
Laboratory Number:	57052	Date Sampled:	01-19-11
Chain of Custody No:	11036	Date Received:	01-19-11
Sample Matrix:	Soil	Date Extracted:	01-20-11
Preservative:	Cool	Date Analyzed:	01-21-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)			
Gasoline Range (C5 - C10)	ND	0.2			
Diesel Range (C10 - C28)	ND	0.1			
Total Petroleum Hydrocarbons	ND				

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closures

Review

Analyst



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:	N/A				
Sample ID:	01-21-11 QA/Q	С	Date Reported:	01 - 24-11				
Laboratory Number:	57053		Date Sampled:		N/A			
Sample Matrix:	Methylene Chlorid	de	Date Received:	N/A				
Preservative:	N/A		Date Analyzed:		01-21-11			
Condition:	N/A		Analysis Requeste	ed:	TPH			
	• Jugal-Cal Date	ic lical RF.	C-Cal RE	%Difference	Accept Range			
Gasoline Range C5 - C10	01-21-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%			
Diesel Range C10 - C28	01-21-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%			
Blank Conc. (mg/L=mg/Kg		Concentration.		Detection Lim				
Gasoline Range C5 - C10		ND		0.2				
Diesel Range C10 - C28		ND		0.1				
Duplicate Conc: (mg/Kg)	Sample		W. Difference	Accept ² Range				
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%				
Diesel Range C10 - C28	122	128	4.9%	0 - 30%				
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range			
Gasoline Range C5 - C10	ND	250	263	105%	75 - 125%			
Diesel Range C10 - C28	122	250	389	105%	75 - 125%			

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 57052-57060

Analyst

Review



EPA METHOD 8021 **AROMATIC VOLATILE ORGANICS**

Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Total BTEX		ND ND ND ND ND	1 1 1	.9 .0 .0 .2 .9
Parameter		Concentration (ug/Kg)	De Lin (ug/K	nit
Condition: 	Intact	Dilutio	sis Requested: on:	BTEX 10
Preservative:	Cool		Extracted:	01-20-11
Sample Matrix:	Soil		Analyzed:	01-25-11
Chain of Custody:	11036		Received:	01-19-11
Laboratory Number:	57052	Date	Sampled:	01-19-11
Sample ID:	16	Date F	Reported:	01-29-11
lient:	Envirotech	Projec	ct #:	1-02-60001

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	89.8 %
,	1,4-difluorobenzene	83.1 %
	Bromochlorobenzene	95.3 %

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, References: December 1996.

> Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Land Farm 2 Closures

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 0125BBLK QA/QC 57053 Soil N/A N/A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis: Dilution:	N/A 01-29-11 N/A N/A 01-25-11 BTEX 10					
Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF: Accept: Rang	13. "此时,""我们是这个问题,我们能是一次,"	Blank Conc	Detect. (Limit				
	· · · · ·			e del terre de l'alle de la contra c e de la contra ce de la contra de la contra de la contra de la contra de la					
Benzene	7.1206E+005	7.1348E+005	0.2%	ND	0.1				
Toluene	8.8005E+005	8.8181E+005	0.2%	ND	0.1				
Ethylbenzene p,m-Xylene	1.0655E+006	1.0677E+006 2.2953E+006	0.2% 0.2%	ND ND	0.1 0.1				
o-Xylene	2.2907E+006 9.6352E+005	9.6545E+005	0.2%	ND	0.1				
Duplicate Conc. (ug/Kg)	<u>Sample</u>		en de la composition	ning official and an	Detect: Limit.				
Benzene	ND	ND	0.0%	0 - 30%	0.9				
Toluene	ND	ND	0.0%	0 - 30% 0 - 30%	1.0 1.0				
Ethylbenzene p,m-Xylene	NÐ ND	ND ND	0.0% 0.0%	0 - 30%	1.0				
o-Xylene	ND	ND	0.0%	0 - 30%	0.9				
Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery (1)	Accept Range				
Benzene	ND	500	425	85.0%	39 - 150				
Toluene	ND	500	429	85.7%	46 - 148				
Ethylbenzene	ND	500	454	90.8%	32 - 160				
p,m-Xylene	ND	1000	923	92.3%	46 - 148				
o-Xylene	ND	500	428	85.7%	46 - 148				

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996. Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

QA/QC for Samples 57052-57060 **Comments:**

Review



Client:	Envirotech	Project #:	1-02-60001
Sample ID:	16	Date Reported:	01/21/11
Lab ID#:	57052	Date Sampled:	01/19/11
Sample Matrix:	Soil	Date Received:	01/19/11
Preservative:	Cool	Date Analyzed:	01/21/11
Condition:	Intact	Chain of Custody:	11036

Parameter

Concentration (mg/Kg)

Total Chloride

150

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 199.

Comments:

Land Farm 2 Closures

Analyst

Review

CHAIN OF CUSTODY RECORD

11036

Client:	~	F	Project Name / Location:							ANALYSIS / PARAMETERS													
Client:	ote		Sampler Name: <u>LandFacen Z. Classing</u> Sampler Name: <u>Tom Garcia Rigg</u> Client No.:						N		4											•	
Client Address:	•	5	Sampler Name:	Sampler Name:) IO	5	6		1					X					
			510. 5	TID of Garcia Kelle					301	80	826	S					ĺ						1
Client Phone No.:		0	Client No.:	ient No.:				<u> </u>	po	pou	bo	etal	ion		H		÷					ō	act
			1-1	1-02-60001				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	CHLORIDE	•			Sample Cool	Sample Intact	
Sample No./	Sample	Sample			ample	No./Volume	Pres			X	l € U	RA	io U	_	Γ.	_	H H	ğ				du	nple
Identification	Date	Time	Lab No.		Matrix	of Containers	HgCl ₂	на З] Ē	BTI	9	L 2 2	Cat	RCI	1 C	PAH	T P	공				Sai	Sal
16	1-19-11	15015	57052	Soil) Solid	Sludge Aqueous	402		X	115	Y.								X				٢	\times
		16-7	57053	Sour	Sludge	907		X		K							<u> </u>	X				$\boldsymbol{\lambda}$	×_
<u> </u>		17:20	2 201 2	Solid	Aqueous	10%	$\left - \right $	/_		$\frac{1}{1}$								/					$\overline{\Gamma}$
				Soil Solid	Sludge Aqueous	-																	
	Soil Solid				Sludge Aqueous																		
				Soil Solid	Sludge Aqueous															'			
				Soil	Sludge															-+			
				Solid Soil	Aqueous Sludge															-+			
				Solid	Aqueous															-+			
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
	_			Soil Solid	Sludge Aqueous									· · ·									
Relinquished by: (Sigr	nature)		I		Date	Time		eceive	d by:	(Sian	() ature)			[Ļ		[[]		Da	te	[Ti	me
· · · · · · · · · · · · · · · · · · ·	······,	18)	177/0		1-17-11	-	<i>2</i> <	De	né	3	K-4	$\overline{\mathbf{v}}$								1-19		19	
Relinquished by: (Sigr	nature)	/				<i>t</i>	R	eceive	ed by:	Sign	ature))											
Relinquished by: (Sigr	nature)						R	eceive	d by:	(Sign	ature)			<u> </u>				·					
							aly	tica	l La	bord	atory	/											
4			5796 U	S Highwa	y 64 • Farmin	gton, NM 87	401•	505-63	32-061	5 • lat	b@env	virotec	h-inc.c	om									