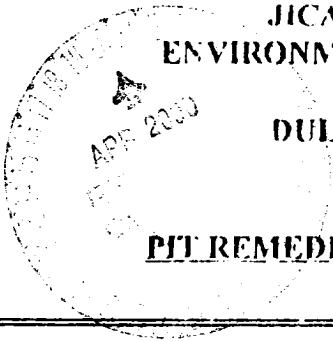


LF will

OK

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT COPY TO
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION



PIT REMEDIATION AND CLOSURE REPORT

DEC

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: 326-7099Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401Facility or Well Name: MARTIN WHITAKER #25Location: Unit or Qtr/Qtr Sec NE/4 Sec 06 T23N R3W County Rio ARribaPit Type: Separator ☒ Dehydrator ☐ Other ☐Land Type: Pit Location: Pit dimensions: length 14', width 14', depth 15'
(Attach diagram)Reference: wellhead ☒ other ☐Footage from reference: Direction from reference: Degrees East North
of
 West South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or: less than
1000 feet from all other water sources)

Yes	(20 points)	
No	(0 points)	<u>0</u>

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/16/98 Date Completed: 9/16/98

Remediation Method: Excavation X Approx. cubic yards 109 CY

(Check all appropriate sections)

Landfarmed X

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____

(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL USING AN EXCAVATOR, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom • CENTER

4 Banks N,S,E,W

Closure Sampling:

(if multiple samples, attach sample results

GAS NO PPM

and diagram of sample locations and depths)

Sample depth 15'

DIE NO PPM

Sample date 9/16/98

Sample time 2:45P

METHOD: 8015M

P10 = 8.8 PPM

Sample Results

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A

Toluene (ppb) N/A

Field Headspace (ppm) 3.4

Ethylbenzene (ppb) N/A

TPII 8015M (ppm) GAS NO PPM
DIE NO PPM

Total Xylenes (ppb) N/A

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 12/1/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Kent C. Marshall DATE: 12-7-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #25
Work Order:	9809043	Client Sample ID:	MW25-304; Pit Floor
Lab ID:	9809043-09A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/16/98 2:45:00 PM
		COC Record:	5213

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/25/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/19/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #25
Work Order:	9809043	Client Sample ID:	MW25-305; 4 Wall Comp
Lab ID:	9809043-10A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/16/98 2:50:00 PM
		COC Record:	5213

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/25/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/20/98

Qualifiers:

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BEYOND INDUSTRY AND THE CONSUMER

Daily Site Sheet

Site Name: Martin W.H. Haker No 25

NE 1/4, SW 1/4, SEC. 6, T 23 N, R 4 W.

Date: 9-16-98

Time Started:

Time Finished: _____

Pit starting size: 10410x5

Plt size when finished: 14x14x15

Land farm size: _____

Distance to wash > or < 100': _____

Distance to lake or pond: _____

Distance to private or domestic water source > or < 1000': _____

North wall: 2.6

South wall: 3.8

East wall: 3.6

West wall: 1.4

Land farm:_____

Equipment used: P.S.D P.D. LOMBER, LINE LOCATOR, Excavator Jim Kirby, Linen V. Isen

Remarks: Two Samples To Lab 4-in JAR MW25-304 PIT Floor 3.4 PPM
4-in JAR MW25-305 4 WALL Comp 8.8 PPM

Martin W. HAKER
No 25

Martin W. HAKER
No 25

 $\frac{3}{10}$

3 $\frac{3}{10}$ mile

5-36

W3 - 5th

MM
4.5

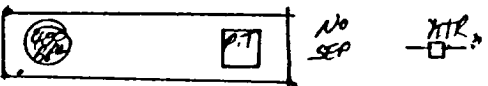
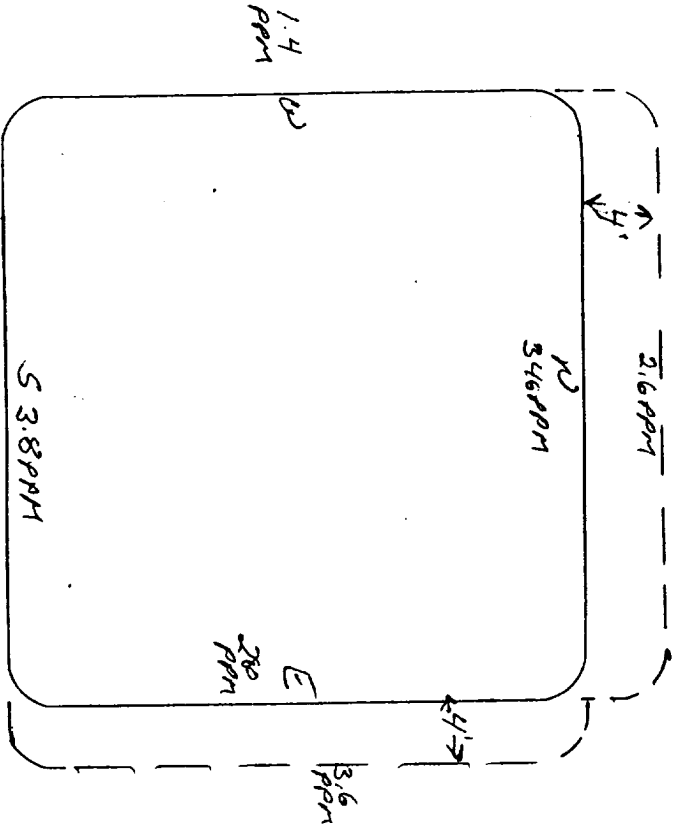
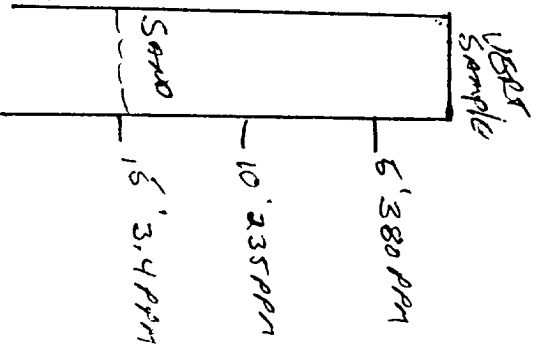
To
TAG

Site Diagram on back side

Site Diagram

Site Name: Michael J. H. Lake 1825

Sample No.	Description	PID	PPM
1) MW 25-304	P.T. floor	3.4	PPM
2) MW 24-305	Wall Comp	8.8	PPM



5214

9-15-98

Date:

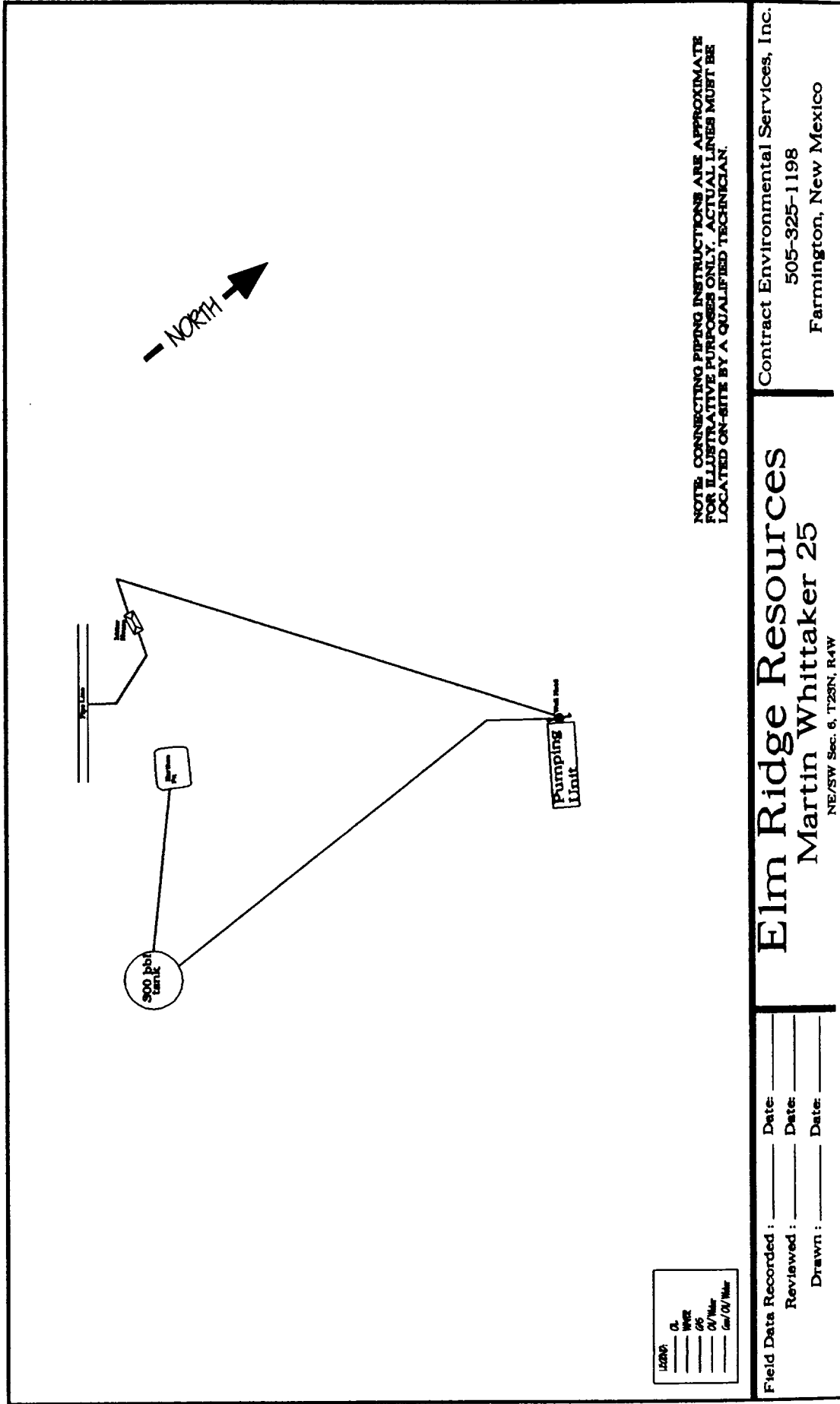
Page _____ of _____

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

TECHNOLOGIES, LTD.

Purchase Order No.:		Job No.	
Name: Shawn Adams			
Company: Contract Inv.		Dept.	
Address:			
City, State, Zip:			
Sampling Location: N.E. 1/4 Section 15, NW 1/4, NW 1/4, NW 1/4, NW 1/4			
Sampler: JVR			
SAMPLE IDENTIFICATION		PRES.	
MW 15-200 Pit Floor		MW 15-200 Pit Floor	
MW 15-201 Wall Comp		MW 15-201 Wall Comp	
MW 15-202 Pit Floor		MW 15-202 Pit Floor	
MW 15-203 Wall Comp		MW 15-203 Wall Comp	
MW 15-204 Pit Floor		MW 15-204 Pit Floor	
MW 15-205 Wall Comp		MW 15-205 Wall Comp	
MW 15-206 Pit Floor		MW 15-206 Pit Floor	
MW 15-207 Wall Comp		MW 15-207 Wall Comp	
MW 15-208 Pit Floor		MW 15-208 Pit Floor	
MW 15-209 Wall Comp		MW 15-209 Wall Comp	
MW 15-210 Pit Floor		MW 15-210 Pit Floor	
MW 15-211 Wall Comp		MW 15-211 Wall Comp	
MW 15-212 Pit Floor		MW 15-212 Pit Floor	
MW 15-213 Wall Comp		MW 15-213 Wall Comp	
MW 15-214 Pit Floor		MW 15-214 Pit Floor	
MW 15-215 Wall Comp		MW 15-215 Wall Comp	
MW 15-216 Pit Floor		MW 15-216 Pit Floor	
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MW 15-294 Pit Floor		MW 15-294 Pit Floor	
MW 15-295 Wall Comp		MW 15-295 Wall Comp	
MW 15-296 Pit Floor		MW 15	

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
---------------	-----------------	--------------	----------------	--------------------



Legend:	OL
	Water
	Gas
	Oil/Water
	Gas/Oil/Water

NOTE: CONNECTING PIPING INSTRUCTIONS ARE APPROXIMATE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LINES MUST BE LOCATED ON-SITE BY A QUALIFIED TECHNICIAN.

Field Data Recorded : _____ Date: _____
 Reviewed : _____ Date: _____
 Drawn : _____ Date: _____

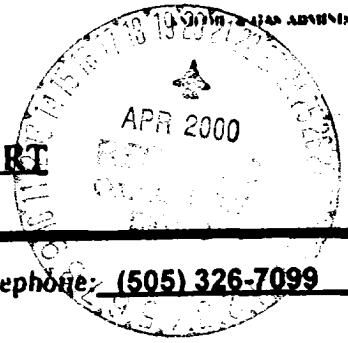
Elm Ridge Resources
 Martin Whittaker 25

NE/SW Sec. 6, T29N, R4W

Contract Environmental Services, Inc.
 505-325-1198
 Farmington, New Mexico

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT COPY TO
NATIONAL BUREAU OF GEOLOGY
NATIONAL ENVIRONMENTAL ADMINISTRATION



ON-SITE SOIL REMEDIATION REPORT

Operator: Elm Ridge Resources Telephone: (505) 326-7099

Address: 312 W La Plata, Farmington NM 87401

Facility or Well Name: Martin Whittaker #25

Location: Unit or Qtr/Qtr Sec NE/5W Sec 06 T23N R 3W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 9-16-98 Date Completed: 8-17-99

Remediation Method: Landfilled X Approx. cubic yards 121
Composted
Other

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 8-17-99 Time: 1215

Sample Results:

Field Headspace (ppm) 2.7

TPH (ppm) GR0 NO Method 8015

Other

RANKING SCORE (TOTAL POINTS): 0

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9-23-99 PRINTED NAME Bill Schaaphok
SIGNATURE Bill Schaaphok AND TITLE Environmental Specialist

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES NO (REASON)

SIGNED: DATE:

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Aug-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarm
Work Order:	9908041	Client Sample ID:	MW #25 LF 1-2
Lab ID:	9908041-01A	Matrix:	SOIL
Project:	Elm Ridge Resources Landfarms	Collection Date:	08/17/1999 12:15:00 PM
		COC Record:	10248

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	410	25		mg/Kg	1	08/19/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/18/1999

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Client : Elm Ridge Resources

Date Started : Feb 1998 Date Completed : Feb 1998

Overview of Landfill and Sampling :

Location : Martin Whitaker #25

Quad : NE/3W Section : 06

Township : 23N Range : 3W

Pit : Separator

Reference : 120' S 80 E

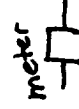
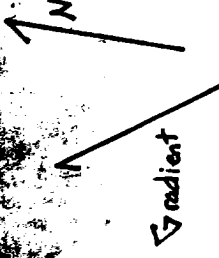
Size : 99' x 33' x 1

Yds : 121

2-5 - Point Composite

Sample #	Location	OVM
1	LF 1-1	1.2
2	LF 1-2	2.7
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

40'



Comments : Dump, reddish brown, sandy loam, small clay particles, no odor or staining
Sample taken at 8" to 12"

Environmental Specialist :