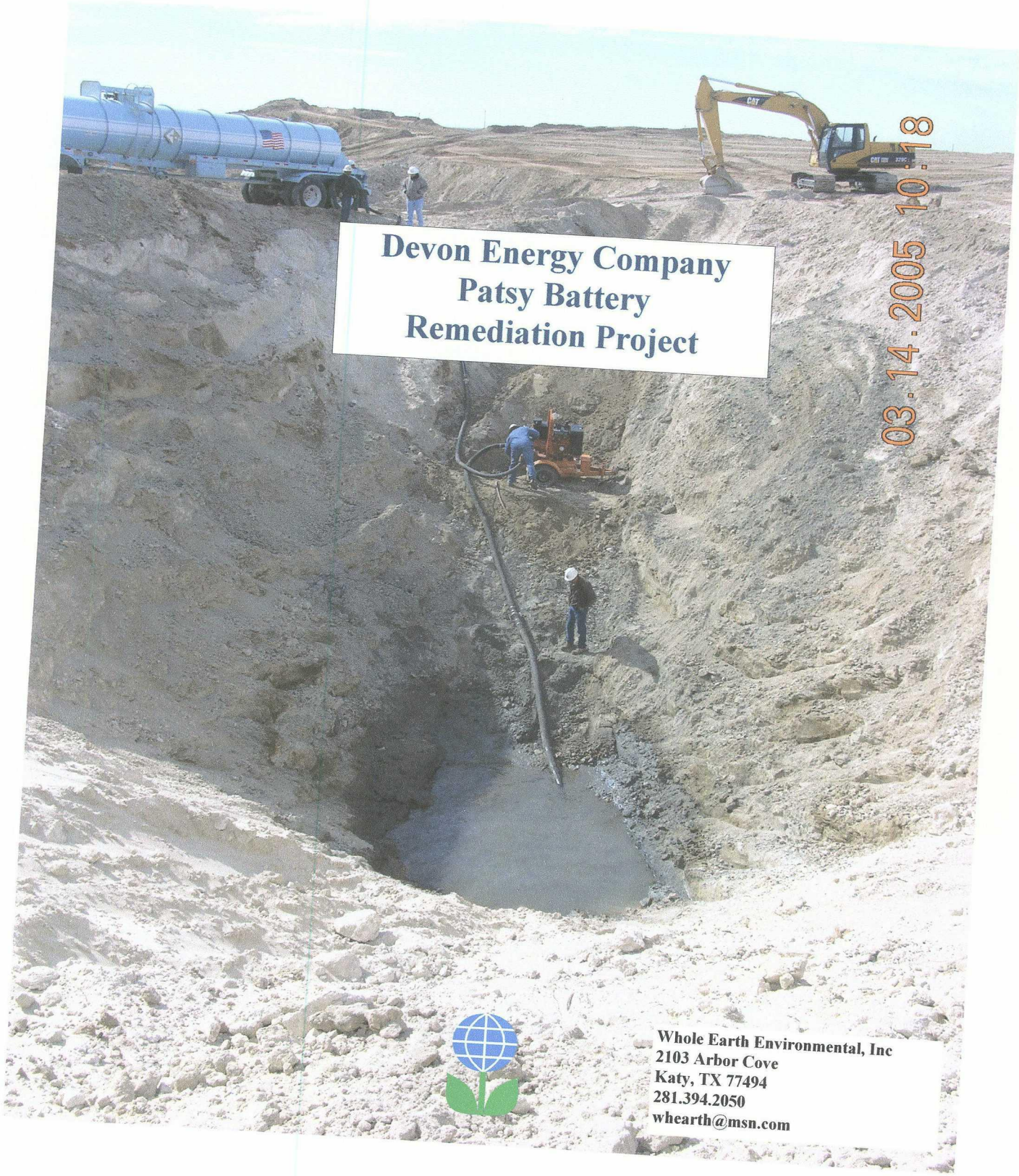
1R - 0433

REPORTS

DATE:

2005



Whole Earth Environmental, Inc
2103 Arbor Cove
Katy, TX 77494
281.394.2050
whearth@msn.com

devon

Office 405.228.8327
Fax 405.552.7839
Chris.biagi@dvn.com

Devon Energy Corporation
20 North Broadway
Oklahoma City, Oklahoma 73102-8260

June 23, 2005

New Mexico Oil Conservation Division
Attention: Mr. Wayne Price
1220 South St, Francis Drive
Santa Fe, New Mexico 87505

1R433

RE: Patsy Tank Battery Closure
Monument, Lea County, New Mexico

Dear Mr. Price:

Please find enclosed the Closure Report prepared to detail the remediation activities conducted at the Patsy Tank Battery site located near Monument in Lea County. The remedial activities were conducted and the report prepared by Whole Earth Environmental for Devon Energy. As a result of remedial actions taken at the site, we are requesting that the site be granted no further action required status. Upon receipt of this notification, the monitoring wells associated with the site will be properly abandoned and reported.

If you have any questions relating to this project, please contact me at 405.228.8327.

Sincerely,

Chris Biagi, REM
Senior Remediation Specialist

Enclosure

Executive Summary

Location
The site is located approximately five miles southwest of Monument, New Mexico on BLM lands. The primary land use is grazing of cattle however extensive oil and gas operations are prevalent in the area. The area is semi-arid with a net precipitation / evaporation amount of –73" per year. The legal description of the site is NW ¼ of S-18, T-20, -37E.

Site History
Production related activities resulted in three separate areas having environmental impairments. The first area (identified in Exhibit 3 as the Battery Area) appeared to have contained storage tanks along with related processing and load-out equipment. The second area (identified in Exhibit 3 as Area B) served as a production pit for the facility. The third area (identified in Exhibit 3 as Area C) was a spread zone where the contents of the pit were placed on the land surface to evaporate.

Previous Site Investigations
Two separate investigations were commissioned by Devon Energy Company to determine the vertical and lateral extent of possible contamination. The first study was prepared by Larson Associates and reported on May 15, 2002. In this study, a series of five boreholes were advanced within areas of interest and soil samples analyzed for TPH, BTEX and chlorides. These borings revealed the presence of the three suspect areas described within the Site History section of this summary.

A second investigation conducted by ETGI advanced a series of seven monitor wells at locations suggested by the results of the Larson Associates data. None of the wells registered BTEX concentrations in excess of NMWQCC standards but each had chlorides well in excess of the 250 ppm standard.

Remediation Activities
The site was initially modeled as a candidate location for a hydrostatic barrier, (essentially, an impermeable clay cap atop the contamination to prevent future vertical migration into the water table). However several factors including the relatively shallow depth and concentrations of the contaminant plumes and the relative ease of excavating sand made simple aeration and dilution a more attractive option.

Removal of Piping
Approximately two tons of metal flowlines were excavated, checked for the presence of N.O.R.M. and transported to commercial disposal at Hobbs Iron and Metal. (Disposal Manifest and N.O.R.M. logs are contained within the Exhibits section of this report).

Plugging of Monitor Well No. 2
Monitor Well no. 2 was situated in the approximate center of the battery area. Prior to excavation, Whole Earth contracted Atkins Engineering of Roswell, New Mexico to remove the wellhead, all available casing and to cement grout the well to the surface. (A copy of the plugging report and photographs of the plugging operation are contained within the Exhibits section of this report).

Excavation and Remediation
The pit area was excavated to a depth of approximately 40' below ground surface (bgs). The water table was found at a depth of 32' bgs. A minor amount of free product was found on the water table. Using a large transfer pump and transport truck Whole Earth completely evacuated the water from the hole and allowed it to recharge seventeen times until no evidence of hydrocarbons such as sheen or odor remained on the water. A total of 180 barrels were removed and sent to commercial disposal. (Disposal manifests and photographs of the fluid removal activities are included within the Exhibits section of this report).

Each site was excavated to the point at which acceptable criteria contaminant concentrations were obtained for each side-wall and bottom. Whole Earth conducted extensive field screening for these criteria contaminants prior to selecting samples for independent laboratory analysis. The Hobbs office of the NMOCD was notified of the various sampling events and witnessed the initial pit sampling on March 18, 2005.

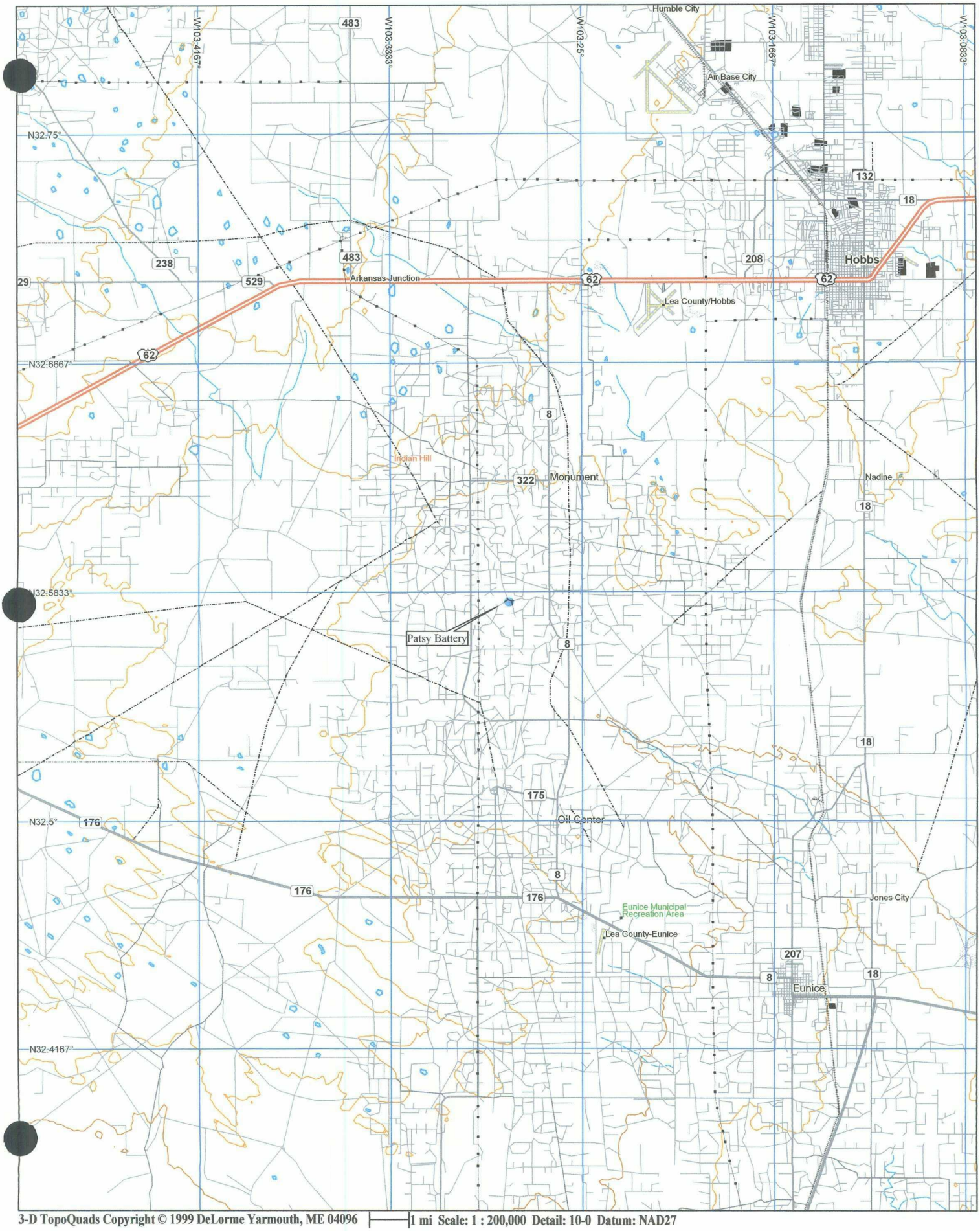
Backfilling
The contents from each excavation were mixed and blended with the surrounding soils to achieve TPH concentrations of <5,000 ppm, chlorides of <250 ppm and benzene of less than .010 ppm. Each backfill lift was analyzed by Environmental Labs of Texas.

Re-seeding
The area was seeded with forty pounds of BLM # 2 (approximately twice the recommended amount) and lightly tilled with a surface drag. (A copy of the seed receipt is included within the Exhibits section of this report).

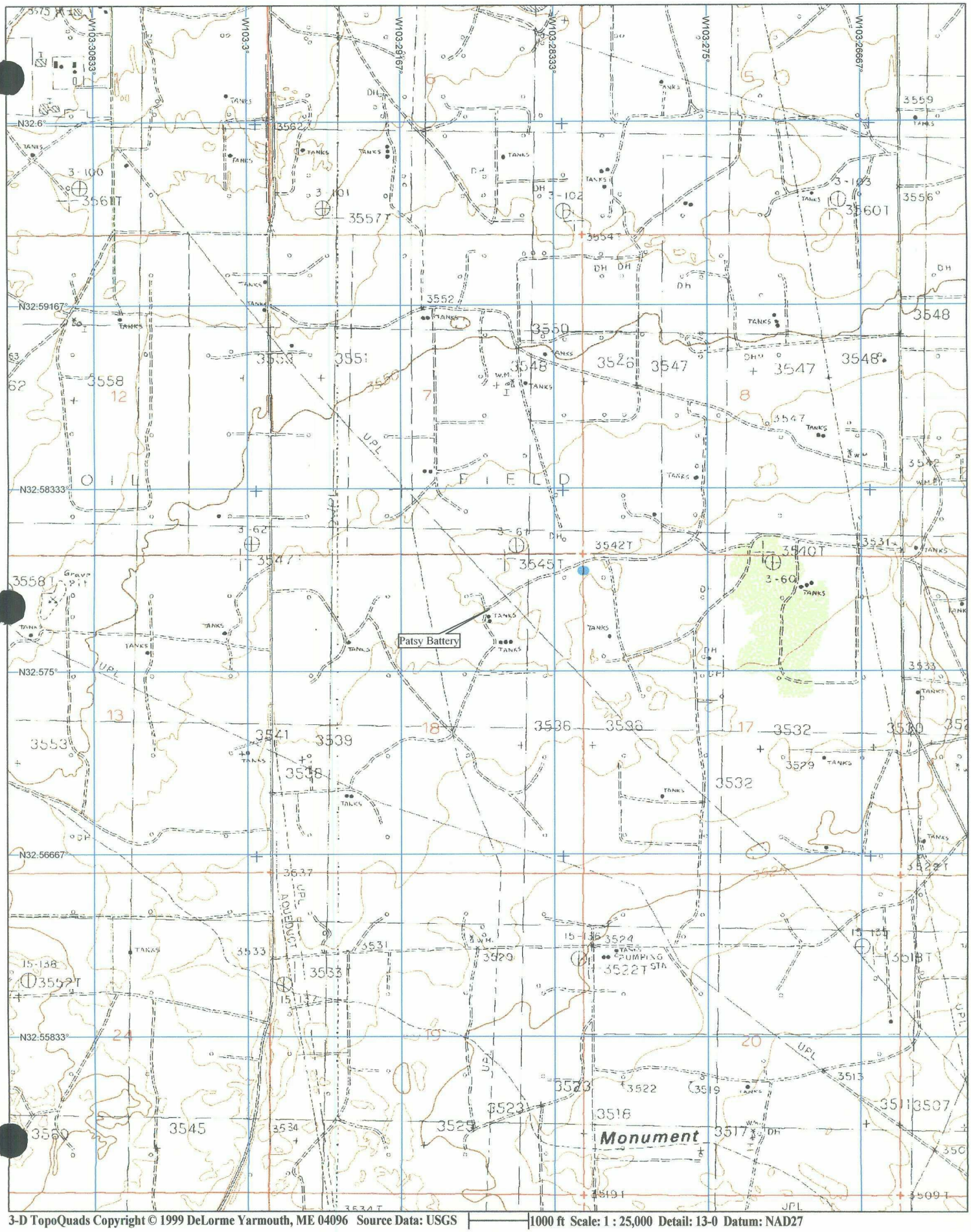
Recommendations and Conclusions
Whole Earth Environmental requests final closure of the site and permission to plug the remaining monitor wells.

Exhibit Index

1. U.S.G.S. 7.5' map zoom out
2. U.S.G.S. 7.5' map zoom in
3. Plat Map of Surface Features
4. Hydrostatic Head Data
5. Groundwater Flow Direction
6. May 3, 2005 NORM Inspection
7. May 10, 2005 NORM Inspection
8. Well Plugging Log
9. Main Battery Area Prior to Remediation
10. Area B Prior to Remediation
11. Area C Prior to Remediation
12. Monitor Well Plugging Detail
13. Monitor Well Plugging Detail
14. Line Excavation Detail
15. NORM Inspection
16. Pipe Removed from Location
17. Area B Initial Excavation Into Water Table
18. Area B Installation of Pump
19. Area B Final Removal of Free Product
20. Area B Clean Water in Hole After Pumping Activities
21. Final Contour
22. Detail of Seeding
23. Disposal Manifests for Steel Pipe
24. Disposal Manifests for Water
25. BLM # 2 Seed Mix Detail

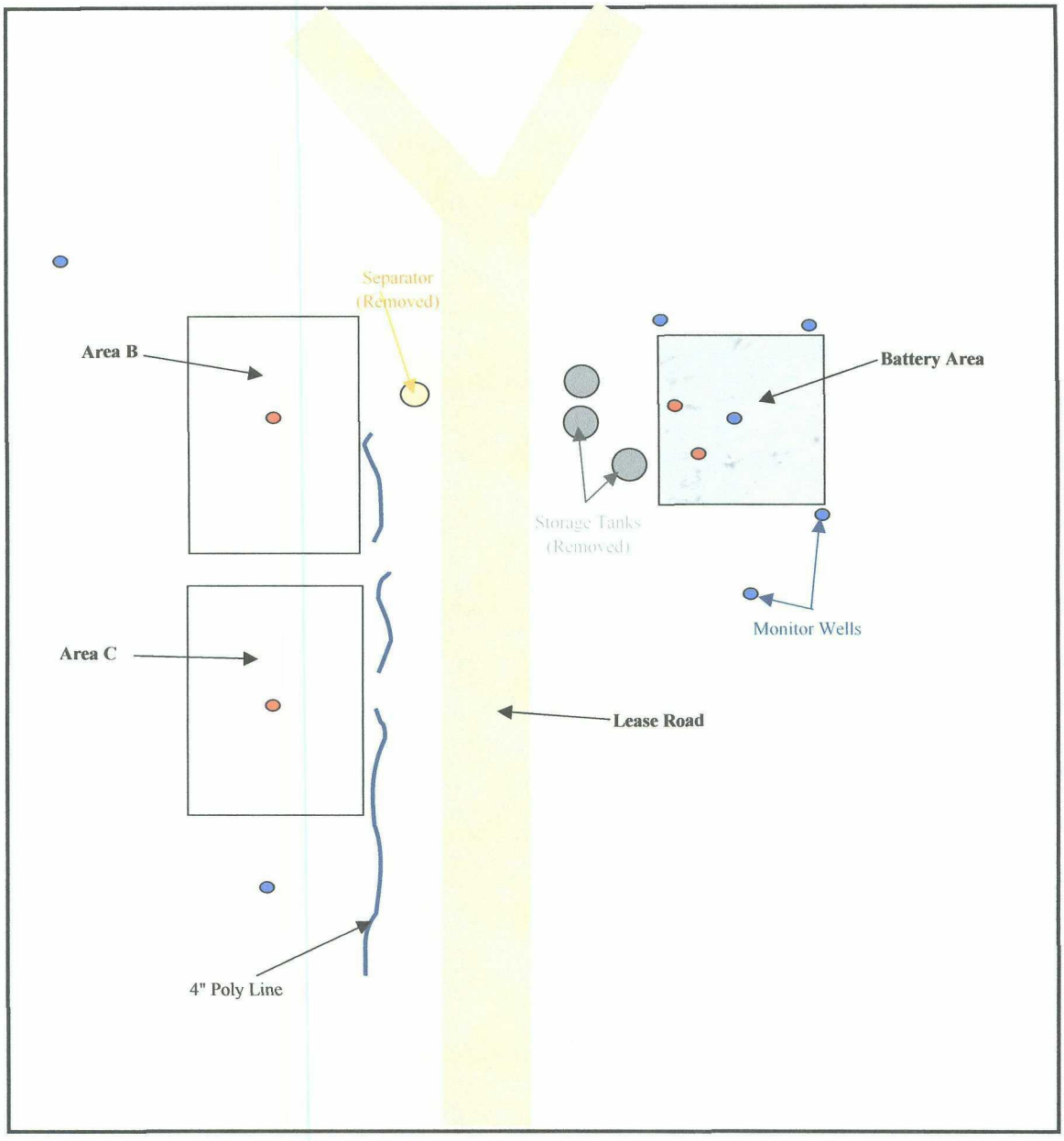


 1 mi Scale: 1 : 200,000 Detail: 10-0 Datum: NAD27



 1000 ft Scale: 1 : 25,000 Detail: 13-0 Datum: NAD27

Devon Energy Company
Patsy Battery
Surface Features

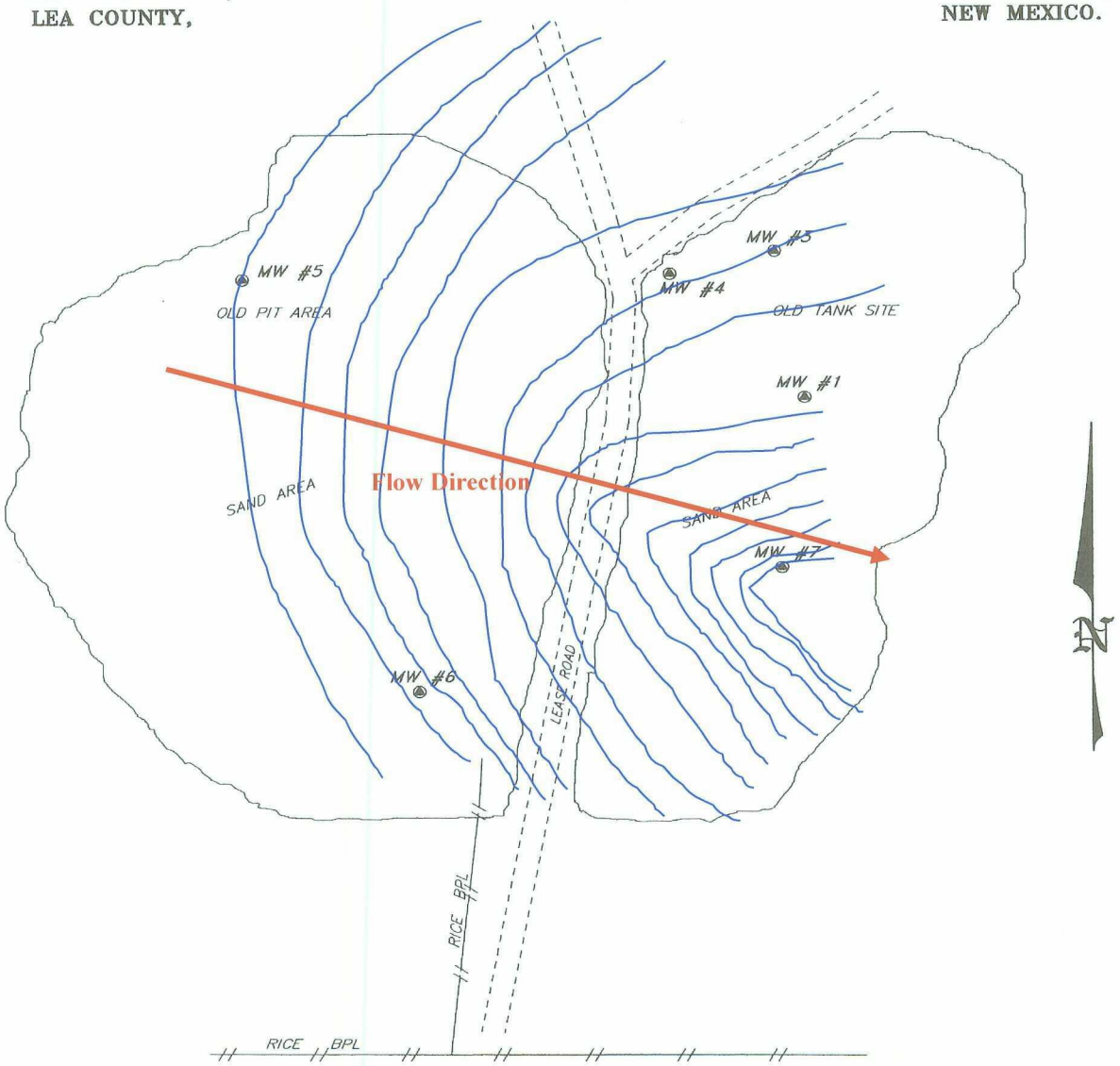


Devon's Patsy Lease Geological-Hydrostatic Head

								Y	X	Z
						Groundwater		Land Surface		Geo-Hydro
MW	Elevation	RTW	R	STW	TD	MSL	MW	Northing	Easting	Head
1	3546.99	34.80	2.65	34.80	41.55	3512.19	1	575474.584	863628.018	0.71
3	3547.39	35.40	3.03	35.40	41.80	3511.99	3	575580.346	863608.566	0.51
4	3546.27	33.80	2.74	33.80	41.10	3512.47	4	575564.148	863539.895	0.99
5	3546.84	34.00	2.80	34.00	40.25	3512.84	5	575560.635	863260.263	1.36
6	3545.24	32.50	2.22	32.50	41.35	3512.74	6	575258.500	863374.845	1.26
7	3543.73	32.25	2.99	32.25	40.55	3511.48	7	575349.615	863612.419	0.00

SECTION 18, TOWNSHIP 20 SOUTH, RANGE 37 EAST, N.M.P.M.,

LEA COUNTY, NEW MEXICO.



NAME	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION NO. SIDE PVC	ELEVATION CONCRETE
MW #1	N575474.584	E863628.018	N32°34'39.6"	W103°17'13.4"	3549.64'	3546.99'
MW #3	N575580.346	E863608.566	N32°34'40.6"	W103°17'13.6"	3550.42'	3547.39'
MW #4	N575564.148	E863539.895	N32°34'40.5"	W103°17'14.4"	3549.01'	3546.27'
MW #5	N575560.635	E863260.263	N32°34'40.5"	W103°17'17.7"	3549.64'	3546.84'
MW #6	N575258.500	E863374.845	N32°34'37.5"	W103°17'16.4"	3547.46'	3545.24'
MW #7	N575349.615	E863612.419	N32°34'38.4"	W103°17'13.6"	3546.72'	3543.73'

ALL COORDINATES ARE BASED ON NMSPCE (NAD83)

Devon Energy Company

Page 1 of 1

Facility Location:

State: New Mexico
Plant/Field: Monument
Lease/Battery/Well: Patsy

Survey Date: 5/3/2005
County: Lea
API No.:

Survey Instrument Information: Scintillation Meter

Meter: Manufacturer: Ludlum
Model No.: 2241
Serial No.: 210777

Detector: Manufacturer: Ludlum
Model No.: 44-2
Serial No.: PR - 223126

Coordinates: 32.39946 N, 103.15361 W

Date of Last Calibration: 30-Nov-04

Battery Check: OK

Check Source Used (ID/Type): Americium (Smoke Detector)

Check Source Reading: _____ µR/hr

Background Reading: _____ µR/hr

Description of Item/Equip/Area Surveyed	Maximum Meter Reading in µR/hr @ Surface	@ 1 Foot*	@ 3 Feet*
4" Line to Tanks	5.5	4.2	
2"Flowline	5.1		
2"Flowline	5		
2"Flowline	4.6		
2"Flowline	4.8		
Barrels	4.3		

(Continue on additional pages, if necessary)

Survey Conducted By:

Signature: _____

Name: M. Griffin

Devon Energy Company

Survey Date: 38475

Facility Location:

Plant/Field: Monument

Lease/Battery/Well: Patsy

Description of Item/Equip/Area Surveyed	Maximum Meter Reading in μR/hr @ Surface	@ 1 Foot*	@ 3 Feet*

(Continue on additional pages, if necessary)

* Record Geiger Mueller meter readings at distances of 1 foot and 3 feet from equipment surfaces and 3 feet above land surfaces when surface reading with scintillation meter exceeds 250 μR/hr.

Devon Energy Company

Page 1 of 1

Facility Location:

State: New Mexico
Plant/Field: Monument
Lease/Battery/Well: Patsy

Survey Date: 5/10/2005
County: Lea
API No.:

Survey Instrument Information: Scintillation Meter

Coordinates

Meter: Manufacturer: Ludlum
Model No.: 2241
Serial No.: 210777

32.39946 N
103.15361 W

Detector: Manufacturer: Ludlum
Model No.: 44-2
Serial No.: PR - 223126

Date of Last Calibration: 30-Nov-04

Battery Check: OK

Check Source Used (ID/Type): Americium (Smoke Detector)

Check Source Reading: _____ µR/hr

Background Reading: 4.3 µR/hr

Description of Item/Equip/Area Surveyed	Maximum Meter Reading in µR/hr @ Surface	@ 1 Foot*	@ 3 Feet*
2"Flowline	4.8		
2"Flowline	4.3		
2"Flowline	4.4		
2"Flowline	4.7		
2"Flowline	4.3		

(Continue on additional pages, if necessary)

Survey Conducted By:

Signature

Name: M. Griffin

Devon Energy Company

Page 1 of 1

Facility Location:
Survey Date: 38482
Plant/Field: Monument
Lease/Battery/Well: Patsy

Description of Item/Equip/Area Surveyed	Maximum Meter Reading in µR/hr @ Surface	@ 1 Foot*	@ 3 Feet*

(Continue on additional pages, if necessary)

* Record Geiger Mueller meter readings at distances of 1 foot and 3 feet from equipment surfaces and 3 feet above land surfaces when surface reading with scintillation meter exceeds 250 µR/hr.

Whole Earth Environmental, Inc.
Well Plugging Log

Client:	Devon Energy Co.
Location:	Patsy Battery
County:	Lea
State:	New Mexico
Plugging Company:	Atkins Engineering
License No.:	
Date:	3/5/2005

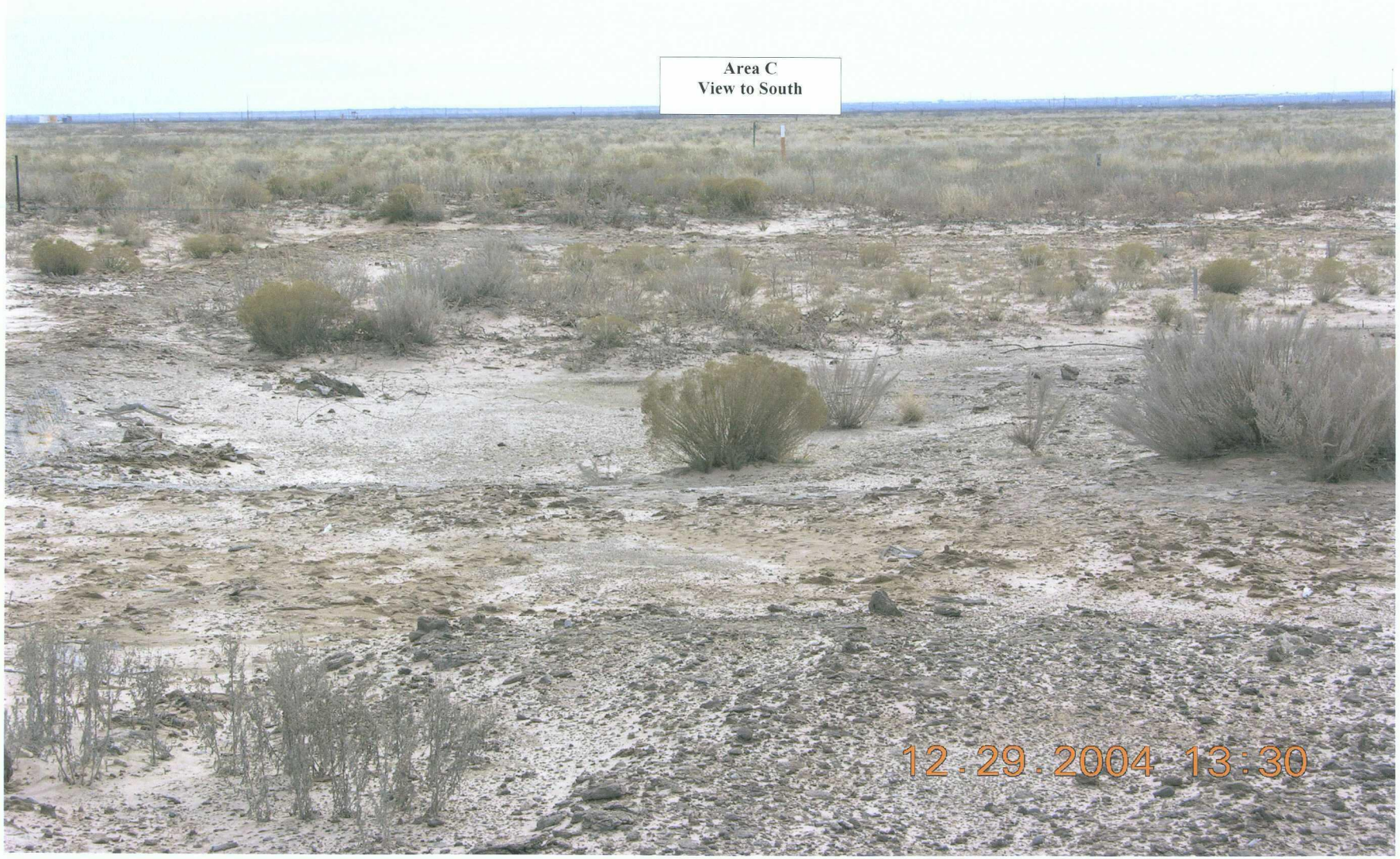
Lat:	32^0 34.675N		**Section**	18
Long.	103^0 17.248W		**Township**	20-S
Surf. Elev.	3,550 ft.		**Range**	37-E
Top of Water:	32.75	Ft. bgs	**Well Type:**	Monitor
Bottom of Bore:	37.63	Ft. bgs	**Cased?**	Y
Cased Bore Volume:	1,418.62	Cu. In.	**Casing Dia.**	2"
Cased Bore Volume:	6.14	Gal.		

Comments

Measured depths of water using Atkins depth meter. Prepared a 10 gallon cement slurry - pumped directly into 2"casing. Removed the 3' steel well riser with 320 excavator. Pulled one 6' section of casing - parted at joint approx 3' bgs. Bore cemented to surface.


Main Battery Area
View to North
12.29.2004 13:33


Area B
Surface Detail
12.29.2004 13:30


Area C
View to South
12 . 29 . 2004 13 : 30

03.05.2005 09:31
836 GKH
22


03.05.2005 09:52

03.03.2005 09:53


03.03.2005 10:17


03.10.2005 15:58


03.09.2005 12:50


03.14.2005 10:30

03.14.2005 10:27

03.14.2005 10:03


03:27.2005 14:30


Feeder
Spreader
04.03.2005 11:44

HOBBS IRON & METAL, INC.

920 S. GRIMES • P.O. BOX 2007 • 505-393-1726
HOBBS, NEW MEXICO 88241

Date: 03/10/05
Name: TATUM BACKHOE
Address: PO BOX 1068
City: TATUM NM 88267

Ticket Number: 63631
License Number: RONNIE W

ORIGINAL PRINTED 03/10/05

For and in consideration of the sum of $55.50, I hereby bargain, sell, transfer and assign to HOBBS IRON & METAL, INC. the following personal property, to-wit.

ITEM	GROSS	TARE	NET	PRICE	AMOUNT
Unprepared Steel	47940	44240	3700	0.0150	55.50
					$55.50
				TOTAL	

PAID BY: CASH

RECEIVED BY: _____

GANDY CORPORATION

WASSERHUND SWD

398-4960 ~ *Tatum*
396-4948 ~ *Lovington*

P.O. Box 827 ~ Tatum, New Mexico 88267

№ 19367

Trucking Company: Gandy Date: 3-14-05

Oil/Company: Devon - Patsy Time:

Lease: S. west monument BBLS: 60

Driver: Diego Ponce

DRIVER COPY ~ White

Coopers Salt Water Disposal

505/397-2045 № 17547
Box 55
Monument, New Mexico 88265

DATE 3-14-05

COMPANY NAME Gandy corp

ADDRESS Lovington

CITY Lovington

NO. OF BARRELS 120

Devon - Patsy Lease

SIGNATURE Diego Ponce

The Print Shop #4814

CURTICE-BURNS, CLOVIS
4500 North Prince, CLOVIS
"Specializing in Investments That Grow"

LOT# M-6272

MIKE GRIFFIN – GANDY CORP.
1109 E. BROADWAY
TATUM, NM 88267

BLM# 2 BROADCAST RATE
2-2 ACRE BAGS @ 20.42 BULK POUNDS EACH

ITEM	Total PLS Pounds	Total Bulk Pounds
Sand Dropseed	8.00	8.56
Not Stated		
Sand Lovegrass	8.00	10.40
Bend		
Plains Bristlegrass	16.00	21.89
Not Stated		
Total:	32.00	40.85

THERE ARE BAGS FOR THIS MIX
THIS BAG CONTAINS 20.42 BULK POUNDS
PLANT 10.21 BULK POUNDS PER ACRE
USE THIS BAG FOR 2 ACRES

Protocols

This section contains a copy of PR-70, the remediation protocol employed on this project.

Remediation Protocol
Devon Energy Corporation
Patsy Battery

1.0 Purpose

This protocol is to provide a detailed outline of the steps to be employed in the remediation and closure of the Devon Energy Patsy located southwest of Monument, New Mexico.

2.0 Scope

This protocol is site specific for the Devon Energy remediation project.

3.0 Preliminary

Prior to any field operations, Whole Earth Environmental shall conduct the following activities:

3.1 Client Review

3.1.1 Whole Earth shall meet with cognizant personnel within Devon to review this protocol and make any requested modifications or alterations.

3.1.2 Changes to this protocol will be documented and submitted for final review by Devon prior to the initiation of actual field work.

4.0 Safety

4.1 Prior to work on the site, Whole Earth shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate Client personnel, sub-contractors and exchange phone numbers.

4.2 A tailgate safety meeting shall be held and documented each day. All sub-contractors must attend and sign the daily log-in sheet.

4.3 Anyone allowed on to location must be wearing sleeved shirts, steel toed boots, and long pants. Each vehicle must be equipped with two way communication capabilities.

4.4 Prior to any excavation, New Mexico One Call will be notified. The One Call notification number will be included within the closure report. If lines are discovered within the area to be excavated they shall be marked with pin flags on either side of the line at maximum five-foot intervals.

4.5 Prior to any field operations, Whole Earth will prepare and submit to Devon Energy a detailed site Health and Safety Plan.

5.0 Preliminary Activities

5.1 All barrels, trash and piping will be scanned for the presence and concentration of naturally occurring radioactive materials (NORM). Any component containing radiation reading exceeding 10 µrems above background will be segregated for further inspection by a third party certified to work in New Mexico on radioactive materials.

5.2 All clean trash will be collected and sent to a commercial disposal facility. A manifest will be generated and signed by the disposal company. All such manifests shall be collected and included within the final closure report.

5.3 All cement shall be collected and deep buried on-site. The top of the cement shall be a minimum distance of 5' below ground level.

5.4 Three of the seven existing monitor wells will be grouted to surface and closed prior to any excavation.

6.0 Remediation

6.1 All berms and assorted piles of contaminated soils will be spread to a maximum depth of 6 inches on the surface of the site. Three areas presently known to contain hydrocarbon concentrations in excess of NMOCD standards shall be excavated to a minimum depth of 20' below ground surface. The contaminated soils shall be set aside of the excavation but within the existing fence perimeter.

6.2 The side walls and bottom of each excavated area shall be field screened for the presence and concentration of TPH by means of EPA method 418.1 (modified). Excavation of each site shall continue until the TPH concentrations are <5,000 ppm. Prior to backfill, laboratory confirmation samples shall be taken from each side-wall and bottom. The Hobbs office of the NMOCD will be given a minimum of forty-eight hours notification of the intended sampling event.

6.3 Each excavation will be backfilled with soils containing a TPH concentration of <500 ppm to a maximum depth of 5' below ground surface. Composite confirmation samples will be collected each 3' lift and submitted to an independent laboratory for analysis under EPA SW-846 Method 8015M. Records of each test will be incorporated within the closure report.

6.5 All remaining contaminated soils will be land spread over the existing impoundment to a maximum depth of 12" and a maximum TPH concentration of 2,000 ppm. Surface treatment methods may include bio-augmentation, fertilization, inoculation, and phyto-remediation.

7.0 Monitoring

The remaining monitor four monitor wells will be tested on an annual basis for the presence and concentration of BTEX, and chlorides for a minimum period of five years. If the well shows criteria contaminant concentrations within NMWQCC standards for a minimum of the last three of five years, Devon will request final site closure to include plugging the remaining well.

8.0 Closure Report

8.1 At the conclusion of the project, Whole Earth shall prepare a closure report that contains the following minimum information:

- Photographs of the location prior to remediation
- Photographs of the site at the point of maximum excavation
- Detail photographs of the liner installation
- Photographs of the location at time of final closure
- Lab analysis and related chain of custody for THP, BTEX and chloride testing of each side-wall and excavation bottom
- Lab analysis and related chain of custody for chloride testing of each 3'lift composite
- Copies of this protocol and all testing procedures
- Shipping manifests for all materials taken to disposal
- Laboratory analysis of water samples obtained from the monitoring well

Procedures

This section contains copies of the individual field testing and sample collection procedures employed on this project.

QP-06 Rev. C

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Conducting Field TPH Analysis

Completed By:	Approved By:	Effective Date: 02/15/97

1.0 Purpose

To define the procedure to be used in conducting total percentage hydrocarbon testing in accordance with EPA Method 418.1 (modified) using the "MEGA" TPH Analyzer.

2.0 Scope

This procedure is to be used for field testing and on site remediation information.

3.0 Procedure

3.1 The G.A.C. "MEGA" TPH analyzer is an instrument that measures concentrations of aliphatic hydrocarbons by means of infra-red spectrometry. It is manufactured to our specifications and can accurately measure concentrations from two parts per million through 100,000 parts per million. The unit is factory calibrated however minor calibration adjustments may be made in the field. Quality Procedure 25 defines the field calibration methods to be employed.

3.2 Prior to taking the machine into the field, insert a 500 ppm and 5,000 ppm calibration standard into the sample port of the machine. Zero out the Range dial until the instrument records the exact standard reading.

3.3 Once in the field, insert a large and small cuvette filled with clean Freon 113 into the sample port of the machine. Use the range dial to zero in the reading. If the machine does not zero, do not attempt to adjust the span dial. Immediately implement Quality Procedure 25 .

3.4 Place a 100 g. weight standard on the field scale to insure accuracy. Zero out the scale as necessary.

3.5 Tare a clean 100 ml. sample vial with the Teflon cap removed. Add 10 g. (+/- .01 g), of sample soil into the vial taking care to remove rocks or vegetable matter from the sample to be tested. If the sample is wet, add up to 5 g. silica gel or anhydrous sodium sulfate to the sample after weighing.

3.6 Dispense 10 ml. Freon 113 into the sample vial.

3.7 Cap the vial and shake for five minutes.

3.8 Carefully decant the liquid contents of the vial into a filter/desiccant cartridge and affix the cartridge cap. Recap the sample vial and set aside.

3.9 Insert the metal tip of the pressure syringe into the cap opening and slowly pressurize. **WARNING: APPLY ONLY ENOUGH PRESSURE ON THE SYRINGE TO EFFECT FLOW THROUGH THE FILTERS. TOO MUCH PRESSURE MAY CAUSE THE CAP TO SEPARATE FROM THE BODY OF THE CARTRIDGE.** Once flow is established through the cartridge direct the flow into the 5 cm. cuvette until the cuvette is full. Reverse the pressure on the syringe and remove the syringe tip from the cartridge cap. Set the cartridge aside in vertical position.

3.10 The cuvette has two clear and two frosted sides. Hold the cuvette by the frosted sides and carefully insert into the sample port of the machine. Read the right hand digital read-out of the instrument. If the reading is less than 1,000 ppm. the results shall be recorded in the field Soil Analysis Report. If the result is higher than 1,000 ppm, continue with the dilution procedure.

4.0 Dilution Procedure

4.1 When initial readings are greater than 1,000 ppm using the 5 cm. cuvette, pour the contents of the 5 cm. cuvette into a 1 cm. cuvette. Insert the 1. cm cuvette into the metal holder and insert into the test port of the instrument.

4.1 Read the left hand digital read-out of the machine. If the results are less than 10,000 ppm, record the results into the field Soil Analysis Report. If greater than 10,000 ppm, continue the dilution process. **Concentrations >10,000 ppm are to be used for field screen purposes only.**

4.2 Pour the contents of the small cuvette into a graduated glass pipette. Add 10 ml. pure Freon 113 into the pipette. Shake the contents and pour into the 1cm. cuvette. Repeat step 4.2. adding two zeros to the end of the displayed number. If the reported result is greater than 100,000 ppm. the accuracy of further readings through additional dilutions is extremely questionable. **Do not use for reporting purposes.**

4.4 **Pour all sample Freon into the recycling container.**

5.0 Split Samples

5.1 Each tenth test sample shall be a split sample. Decant approximately one half of the extraction solvent through a filter cartridge and insert into the instrument to obtain a concentration reading. Clean and rinse the cuvette and decant the remainder of the fluid to obtain a second concentration reading from the same sample. If the second reading varies by more than 1% from the original, it will be necessary to completely recalibrate the instrument.

QP-12

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Soil Sample Preparation:
Moisture Weight Percentage

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed in preparing samples to be tested for electrical conductivity and cation exchange capacities.

2.0 Scope

This procedure shall be followed when preparing any electrical conductivity, (EC), or cation exchange capacity, (CEC), testing.

3.0 Procedure

3.1 Field collection of all soil samples shall be in plastic containers. Samples may be stored for a maximum of five days prior to processing.

3.2 Homogenize sample thoroughly. Test for hydrophobic characteristics as follows:

a. examine for visible globs of oil or grease
b. press soil sample to determine if it compresses into a damp mass
c. test to determine if the sample stains filter paper

If the sample exhibits hydrophobic characteristics, prepare in accordance with 3.3.2 below. Otherwise, prepare in accordance with 3.3.1.

3.3.1 Weigh 120 +/- 0.1g sample into tared crucible and dry at 105^0 C for 1 hour. Cool and reweigh. Repeat until weight difference is less than 1% value.

3.3.2 Weigh 120 +/- 0.1 g sample into tared crucible and dry in oven at 250^0 C for one hour. Cool and heat with propane torch until sample just begins to smoke. Maintain gradual heating until smoke dissipates (approximately 1/2 hour). **DO NOT ALLOW THE SAMPLE TO CATCH FIRE OR EXCEED 390^0 C.** Cool and reweigh. Grind to pass 2mm sieve.

3.4 Report percent moisture to three significant figures as follows:

Moisture % = [(W - D)/D] X 100
W = wet sample weight
D = dry sample weight

3.5 References

Diagnosis and Improvement of Saline and Alkali Soils; U.S. Salinity Laboratory Staff, Agriculture Handbook No. 60; 1954

Deuel & Holliday, Soil Remediation for the Petroleum Extraction Industry; Houston, Tx. 1993.

QP-13

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Preparing a Paste Extraction

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure defines the methods to be employed in preparing a paste extraction to be analyzed for conductivity and exchangeable cations.

2.0 Scope

This procedure shall be used in all electrical Conductivity (EC) and Cation Exchange Capacity (CEC) tests.

3.0 Procedure

3.1 All samples shall be prepared in accordance with QP-12.

3.2 Weigh 100 +/- 0.1g soil sample into tared sample reservoir of filter assembly. Add deionized reagent water to fill pores, stirring gently with plastic stirrer to achieve saturation. The solid/water mixture is consolidated occasionally by tapping the container on the workbench. At saturation the surface of the mixture glistens and flows slightly when tipped. Let stand for one hour. The mixture should not stiffen or puddle; add more sample or water as required and allow to stand for one additional hour.

3.3 Analyze paste extract directly for EC and pH.

3.4 Connect filter assembly to vacuum assembly and filter extract until air begins to pass through filter. Analyze directly for Na, Ca, Mg, K.

QP-14

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Conducting Sodium Adsorption Ratio (SAR) Testing

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure defines the methods to be employed when conducting sodium adsorption ratio testing from paste extract samples.

2.0 Scope

This procedure shall be used in all SAR's obtained from sample paste extracts.

3.0 Procedure

3.1 All samples shall be prepared in accordance with QP-12 and 13.

3.2 Calibration of the equipment shall be performed daily. Calibrate using a 5 point series of standards. The range of standards must include a blank, and should span the range of expected concentrations of the samples. The following concentrations are appropriate:

Low Range: 0, 1.0, 3.0, 5.0, 10.0 ppm
High Range: 0, 10.0, 20.0, 50.0, 100 ppm

With the instrument on, inject standard mixture with 10 µL syringe and start data collection. Store calibration data under the date of generation for use in subsequent analyses.

3.3 Calibrate instrument in accordance with 3.2. Dilute aqueous extract volumetrically so that sample concentrations fall within the working range of the instrument. Enter sample I.D. and operator name into data collection system. Inject 10 µL sample and start data collection.

3.4 Report cation concentrations to three significant digits. Milliequivilents conversions are automatically performed in the calculation for SAR as follows:

$$\text{soluble cations (meq/100g)} = \left(\left\{\frac{[Na]}{23.0} + \frac{[Ca]}{20.0} + \frac{[Mg]}{12.2} + \frac{[K]}{39.1}\right\} \text{ X SP}\right) / 1000$$

$$\text{SAR} = \frac{[Na]}{23.0} \Big/ \left(0.5\left\{\frac{[Ca]}{20.0} + \frac{[Mg]}{12.2}\right\}\right)^{-1/2}$$

Where [ ] = concentration in ppm

QP-15

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Determining Distribution of Exchangeable Cations

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure defines the methods to be employed when determining the distribution of cations adsorbed on the solid phase.

2.0 Scope

This procedure shall be used in all exchangeable cation distribution testing.

3.0 Procedure

3.1 All samples shall be prepared in accordance with QP-12 and 13.

3.2 Calibration of the equipment shall be performed daily. Calibrate using a 5 point series of standards. The range of standards must include a blank, and should span the range of expected concentrations of the samples. The following concentrations are appropriate:

Low Range: 0, 1.0, 3.0, 5.0, 10.0 ppm
High Range: 0, 10.0, 20.0, 50.0, 100 ppm

With the instrument on, inject standard mixture with 10 μL syringe and start data collection. Store calibration data under the date of generation for use in subsequent analyses.

3.3 Weigh 5 +/- 0.01g sample into fritted extraction tube. Add 20 mL ammonium acetate, cap and shake for 5 minutes. Connect tube into filtration apparatus and collect extract. Repeat three times. Enter sample I.D. and operator name in data collection system. Inject 10 µL into 100mL container of deionized water and shake. Extract 10 µL of dilute sample and inject into sampling port of the ion Chromatograph.

3.4 Report cation concentrations to three significant digits. Milliequivilents conversions are automatically performed in the calculation for SAR as follows:

$$\text{extractable cations} = \left(\left\{\frac{[Na]}{23.0} + \frac{[Ca]}{20.0} + \frac{[Mg]}{12.2} + \frac{[K]}{39.1}\right\} \times 10\right) / W$$

soluble cations = (SC X SP) / 1000

EC = extractable cations - soluble cations

Where [ ] = concentration in ppm
W = sample weight, grams

3.5 References:

Methods for Chemical analysis of Water and Wastes; USEPA; EMSL, Cincinnati, OH 1979

Deuel and Holliday, Soil Remediation for the Petroleum Extraction Industry; Houston, Tx., 1993

QP-16

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Determining Cation Exchange Capacity (CEC)

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure defines the methods to be employed when determining the cation exchange capacity of soils.

2.0 Scope

This procedure shall be used in all CEC testing.

3.0 Procedure

3.1 All samples shall be prepared in accordance with QP-12 and 13.

3.2 Calibration of the equipment shall be performed daily. Calibrate using a 5 point series of standards. The range of standards must include a blank, and should span the range of expected concentrations of the samples. The following concentrations are appropriate:

Low Range: 0, 1.0, 3.0, 5.0, 10.0 ppm
High Range: 0, 10.0, 20.0, 50.0, 100 ppm

With the instrument on, inject standard mixture with 10 µL syringe and start data collection. Store calibration data under the date of generation for use in subsequent analyses.

3.3 Weigh 5 +/- 0.01g sample into fritted extraction tube. Add 30 mL sodium acetate, cap and shake for 5 minutes. Connect tube into filtration apparatus and discard extract. Repeat three times. Rinse sample with 30 mL iso-propyl alcohol, shaken and filtered as above. Add 30 mL ammonium acetate, shake and collect filtrate as in above.Inject 10 µL into 100mL container of deionized water and shake. Extract 10 µL of dilute sample and inject into sampling port of the ion Chromatograph.

3.4 Report cation concentrations to three significant digits. Milliequivilents conversions are automatically performed in the calculation for SAR as follows:

$$CEC = 10\,[Na] / 23.0\,W$$

Where [ ] = concentration in ppm
W = sample weight, grams

3.5 References:

Methods for Chemical analysis of Water and Wastes; USEPA; EMSL, Cincinnati, OH 1979

Deuel and Holliday, Soil Remediation for the Petroleum Extraction Industry; Houston, Tx., 1993

QP-28

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Developing Cased Water Monitoring Wells

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed to develop cased monitoring wells.

2.0 Scope

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

3.0 Preliminary

3.1 Prior to development, the static water level and height of the water column within the well casing will be measured with the use of an electric D.C. probe or a steel engineer's tape and water sensitive paste.

3.2 All measurements will be recorded within a field log notebook and subsequently reported within the driller's boring log report.

3.3 All equipment used to measure the static water level will be decontaminated after each use by means of Alconox, a phosphate free laboratory detergent, and water to reduce the possibility of cross-contamination. The volume of water in each well casing will be calculated.

4.0 Purging

4.1 Wells will be purged by removing a minimum of three well casing volumes by using a 2" decontaminated submersible pump or dedicated one liter Teflon bailer.

4.2 If a submersible is used the pump will be decontaminated prior to use by scrubbing the outside surface of tubing and wiring with an Alconox-water mixture, pumping an Alconox-water mixture through the pump, and a final flush with fresh water.

5.0 Water Disposal

5.1 All purge and decontamination water will be temporarily stored within a 60 gallon portable tank and then pumped into a permanent storage tank to be later disposed of in an appropriate manner.

6.0 Records

6.1 Whole Earth will record the amount of water removed from the well during development procedures. The purge volume will be reported to the appropriate regulatory authority when filing the closure report.

QP-76 (Rev. A)

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Obtaining Water Samples (Cased Wells) Using One Liter Bailer

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed in obtaining water samples from cased monitoring wells.

2.0 Scope

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

3.0 Preliminary

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the water. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 The following table shall be used to select the appropriate sampling container, preservative method and holding times for the various elements and compounds to be analyzed.

Compound to be Analyzed	Sample Container Size	Sample Container Description	Cap Requirements	Preservative	Maximum Hold Time
BTEX	40 ml.	VOA Container	Teflon Lined	HCl	7 days
TPH	1 liter	clear glass	Teflon Lined	HCl	28 days
PAH	1 liter	clear glass	Teflon Lined	Ice	7 days
Cation / Anion	1 liter	clear glass	Teflon Lined	None	48 Hrs.
Metals	1 liter	HD polyethylene	Any Plastic	Ice / HNO_3	28 Days
TDS	300 ml.	clear glass	Any Plastic	Ice	7 Days

4.0 Chain of Custody

4.1 Prepare a Sample Plan. The plan will list the well identification and the individual tests to be performed at that location. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.

4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.

4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

5.0 Bailing Procedure

5.1 Identify the well from the site schematics. Place pre-labeled jar(s) next to the well. Remove the bolts from the well cover and place the cover with the bolts nearby. Remove the plastic cap from the well bore by first lifting the metal lever and then unscrewing the entire assembly.

5.2 The well may be equipped with an individual 1 liter bailing tube. If so, use the tube to bail a volume of water from the well bore equal to 10 liters for each 5' of well bore in the water table. (This assumes a 2" dia. well bore).

5.3 Take care to insure that the bailing device and string do not become cross-contaminated. A clean pair of rubber gloves should be used when handling either the retrieval string or bailer. The retrieval string should not be allowed to come into contact with the ground.

6.0 Sampling Procedure

6.1 Once the well has been bailed in accordance with 5.2 of this procedure, a sample may be decanted into the appropriate sample collection jar directly from the bailer. The collection jar should be filled to the brim. Once the jar is sealed, turn the jar over to detect any bubbles that may be present. Add additional water to remove all bubbles from the sample container.

6.2 Note the time of collection on the sample collection jar with a fine Sharpie.

6.3 Place the sample directly on ice for transport to the laboratory. The preceding table shows the maximum hold times between collection and testing for the various analyses.

6.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

7.0 Documentation

7.1 The testing laboratory shall provide the following minimum information:

A. Client, Project and sample name.
B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
C. Results of the requested analyses
D. Test Methods employed
E. Quality Control methods and results

Calculation for Determining the Minimum Bailing Volume for Monitor Wells

Formula $V = (\pi r^2 h)$

V= volume
π= pi
r= inside radius of the well bore
h= maximum height of well bore in water table

π	r^2	h (in)	V (cu. in)	V (gal)	X 3 Volumes	Actual
3.1416	1	180	565.488	2.448	7.344	>10

QP-78

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Procedure for Obtaining Water Samples (Cased Wells) Using Enviro-Tech ES-60 Pump

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed in obtaining water samples from cased monitoring wells.

2.0 Scope

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

3.0 Preliminary

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the water. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 The following table shall be used to select the appropriate sampling container, preservative method and holding times for the various elements and compounds to be analyzed.

Compound to be Analyzed	Sample Container Size	Sample Container Description	Cap Requirements	Preservative	Maximum Hold Time
BTEX	40 ml.	VOA Container	Teflon Lined	HCl	7 days
TPH	1 liter	clear glass	Teflon Lined	HCl	28 days
PAH	1 liter	clear glass	Teflon Lined	Ice	7 days
Cation / Anion	1 liter	clear glass	Teflon Lined	None	48 Hrs.
Metals	1 liter	HD polyethylene	Any Plastic	Ice / HNO_3	28 Days
TDS	300 ml.	clear glass	Any Plastic	Ice	7 Days

4.0 Chain of Custody

4.1 Prepare a Sample Plan. The plan will list the well identification and the individual tests to be performed at that location. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.

4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.

4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

5.0 Bailing Procedure

5.1 Identify the well from the site schematics. Place pre-labeled jar(s) next to the well. Remove the bolts from the well cover and place the cover with the bolts nearby. Remove the plastic cap from the well bore by first lifting the metal lever and then unscrewing the entire assembly.

5.2 Lower the ES-60 pump into the monitor well bore taking care to insure that the pump and first 10' of hose and cable does not touch the ground or become cross-contaminated by contact with anything containing hydrocarbon residues. When the pump reaches the bottom of the well bore you will feel the hose and cable assembly go slack. Lift the pump a minimum distance of 18" above the bottom of the well bore and clamp the hose assembly to the top of the well bore by means of vice grips. (Take care to insure that the vice grips are adjusted so as not to "choke" the hose.

5.3 Attach the electrical cable leads to an automobile battery and begin pumping the well bore. If the pump does not bring fluid to the surface within one minute, disconnect the electrical leads, and re-connect for four seconds three times to remove air cavitation.

5.4 The pump has a minimum volume of 2.8 gallons per minute at 60'. Purge the well by pumping for a minimum of 10 minutes before taking a sample.

6.0 Sampling Procedure

6.1 Once the well has been bailed in accordance with 5.2 of this procedure, a sample may be decanted into the appropriate sample collection jar directly from the bailer. The collection jar should be filled to the brim. Once the jar is sealed, turn the jar over to detect any bubbles that may be present. Add additional water to remove all bubbles from the sample container.

6.2 Note the time of collection on the sample collection jar with a fine Sharpie.
6.3 Place the sample directly on ice for transport to the laboratory. The preceding table shows the maximum hold times between collection and testing for the various analyses.
6.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

7.0 Decontamination

7.1 After removing the pump from the well, use an aerosol spray pump bottle filled with denatured isopropyl alcohol to clean the pump and first 10' of the cable and hose assembly. Rinse the sprayed portion with distilled water to remove the alcohol and dry with a clean rag. Discard the rag after each use. During transport, the pump assembly should be carried in a 2" PVC protective sleeve.

8.0 Documentation

8.1 The testing laboratory shall provide the following minimum information:

A. Client, Project and sample name.
B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
C. Results of the requested analyses
D. Test Methods employed
E. Quality Control methods and results

QP-96

WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE

Sampling and Testing Protocol Chloride Titration Using .1 Normal Silver Nitrate Solution

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure is to be used to determine the concentrations of chlorides in soils.

2.0 Scope

This procedure is to be used as the standard field measurement for soil chloride concentrations.

3.0 Sample Collection and Preparation

3.1 Collect at least 80 g. of soil from the sample collection point. Take care to insure that the sample is representative of the general background to include visible concentrations of hydrocarbons and soil types. If necessary, prepare a composite sample of soils obtained at several points in the sample area. Take care to insure that no loose vegetation, rocks or liquids are included in the sample(s).

3.2 The soil sample(s) shall be immediately inserted into a one quart or larger polyethylene freezer bag. Care should be taken to insure that no cross-contamination occur between the soil sample and the collection tools or sample processing equipment.

3.3 The sealed sample bag should be massaged to break up any clods.

4.0 Sample Preparation

4.1 Tare a plastic cup having a minimum six-ounce capacity. Add between 80-120 grams of the soil sample and record the weight.

4.2 Add the same weight of distilled water to the soil sample and stir thoroughly using a glass or plastic stir stick.

4.3 Allow the sample to set for a period of thirty minutes. The sample should be stirred at least three times before fluid extraction.

4.4 Carefully pour off the free liquid from the sample through a paper filter into a clean plastic cup.

5.0 Titration Procedure

5.1 Using a graduated pipette, remove 10 ml extract and dispense into a clean plastic cup.

5.2 Add 2-3 drops potassium chromate (K_2CrO_4) to mixture.

5.3 If the sample contains any sulfides (hydrogen or iron sulfides are common to oilfield soil samples) add 2-3 drops of hydrogen peroxide (H_2O_2) to mixture. Allow the mixture to set for a minimum of five minutes.

5.4 Using a 1 ml pipette, carefully add .1 normal silver nitrate solution to sample until solution turns salmon red when viewed with yellow goggles. Be consistent with endpoint recognition.

6.0 Calculation

Multiply the amount of silver nitrate used in step 5.4 by 354.5 to obtain the chloride concentration in mg/L.

Laboratory Analytical Results

This section contains a copy the chain of custody, laboratory analytical results and quality control information for soil samples processed during this project.

Devon Energy Company
Patsy Battery
Soil Analytical Summary

Battery Area						
Location	**TPH**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylene**	**Chlorides**
East Wall	ND	ND	ND	ND	0.0672	47.1
North Wall	ND	ND	0.0119	ND	ND	27.8
South Wall	895	0.0275	0.167	0.146	0.807	56.0
West Wall	ND	ND	ND	ND	ND	35.7
Bottom	ND	ND	ND	ND	ND	71.4
Backfill 20'	1,510	0.0191	0.130	0.140	0.895	107.0
Backfill 15'	1,120	0.0506	0.381	0.442	0.928	119.0
Backfill 10'	2,320	ND	ND	0.0231	0.0433	174.0
Backfill 5'	2,400	ND	0.134	0.187	0.478	102.0
Surface	960	ND	ND	ND	ND	22.5

Pit Area (Area B)						
Location	**TPH**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylene**	**Chlorides**
East Wall	53.5	ND	ND	ND	0.0294	160
North Wall	ND	ND	ND	ND	ND	274
South Wall	5,000	0.138	0.470	0.861	3.50	127
West Wall	ND	ND	ND	ND	ND	37
Water		ND	ND	0.0019	0.0022	1,060
Backfill 25'	63.4	ND	ND	ND	0.0344	25.4
Backfill 20'	436	ND	ND	ND	0.0309	38.2
Backfill 15'	2,500	ND	0.13	0.216	0.646	62.8
Backfill 10'	214	ND	ND	0.0294	0.0853	57.0
Backfill 5'	1,160	ND	ND	ND	0.0377	58.6
Surface	6,170	ND	ND	0.0472	0.1741	22.2

Spread Zone (Area C)						
Location	**TPH**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylene**	**Chlorides**
East Wall	53.5	ND	ND	ND	0.0294	20.4
North Wall	ND	ND	0.0106	ND	0.0447	22.5
South Wall	155	ND	0.0118	0.0184	0.0843	30.2
West Wall	89.4	ND	0.3800	0.1270	0.3990	28.1
Bottom	25.8	ND	ND	ND	ND	28.9
Backfill 10'	2,100	ND	ND	ND	0.0304	129.0
Backfill 5'	1,590	ND	0.0604	0.138	0.519	40.2
Surface	1,110	ND	ND	ND	0.0244	38.2

Devon Energy Company
Patsy Battery
Water Analytical Summary

Battery Area					
Location	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylene**	**Chlorides**
MW-1	0.002	0.003	0.004	0.005	560.0
MW-3	ND	ND	ND	ND	664.0
MW-4	ND	ND	ND	ND	472.0
MW-5	ND	ND	ND	ND	572.0
MW-6	ND	ND	ND	ND	1,190.0
MW-7	ND	ND	ND	ND	538.0

ENVIRONMENTAL LAB OF
12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Devon

Project Number: Patsy Battery Pit Area

Location: None Given

Lab Order Number: 5C15001

Report Date: 03/18/05

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Battery Pit Area	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/18/05 16:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East Wall #1	5C15001-01	Soil	03/14/05 13:35	03/15/05 08:00
North Wall #1	5C15001-02	Soil	03/14/05 13:35	03/15/05 08:00
South Wall #1	5C15001-03	Soil	03/14/05 13:35	03/15/05 08:00
West Wall #1	5C15001-04	Soil	03/14/05 13:35	03/15/05 08:00
Groundwater A	5C15001-05	Water	03/14/05 15:15	03/15/05 08:00
Groundwater B	5C15001-06	Water	03/14/05 15:15	03/15/05 08:00

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Wall #1 (5C15001-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51702	03/16/05	03/16/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0394**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51503	03/15/05	03/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.0 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.2 %*	*70-130*		"	"	"	"	
North Wall #1 (5C15001-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51702	03/16/05	03/16/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
[illegible]e (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51503	03/15/05	03/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.2 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.0 %*	*70-130*		"	"	"	"	
South Wall #1 (5C15001-03) Soil									
Benzene	**0.138**	0.100	mg/kg dry	100	EC51702	03/16/05	03/16/05	EPA 8021B	
Toluene	**0.470**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.861**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**3.06**	0.100	"	"	"	"	"	"	
Xylene (o)	**0.440**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**584**	50.0	mg/kg dry	5	EC51503	03/15/05	03/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	**4420**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**5000**	50.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South Wall #1 (5C15001-03) Soil									
Surrogate: 1-Chlorooctane		*14.0 %*	*67.6-140*		*EC51503*	*03/15/05*	*03/17/05*	*EPA 8015M*	*S-06*
Surrogate: 1-Chlorooctadecane		*22.8 %*	*70-130*		"	"	"	"	*S-06*
West Wall #1 (5C15001-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51702	03/16/05	03/16/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51503	03/15/05	03/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*75.0 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.6 %*	*70-130*		"	"	"	"	
[illegible]ndwater B (5C15001-06) Water									
Benzene	ND	0.00100	mg/L	1	EC51509	03/15/05	03/15/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00187**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00217**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.8 %*	*80-120*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Battery Pit Area	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/18/05 16:27

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Wall #1 (5C15001-01) Soil									
Chloride	**160**	10.0	mg/kg	20	EC51611	03/16/05	03/16/05	EPA 300.0	
% Moisture	**5.2**	0.1	%	1	EC51601	03/15/05	03/16/05	% calculation	
North Wall #1 (5C15001-02) Soil									
Chloride	**274**	10.0	mg/kg	20	EC51611	03/16/05	03/16/05	EPA 300.0	
% Moisture	**4.4**	0.1	%	1	EC51601	03/15/05	03/16/05	% calculation	
South Wall #1 (5C15001-03) Soil									
Chloride	**127**	5.00	mg/kg	10	EC51611	03/16/05	03/16/05	EPA 300.0	
% Moisture	**18.8**	0.1	%	1	EC51601	03/15/05	03/16/05	% calculation	
West Wall #1 (5C15001-04) Soil									
Chloride	**36.9**	5.00	mg/kg	10	EC51611	03/16/05	03/16/05	EPA 300.0	
% Moisture	**5.6**	0.1	%	1	EC51601	03/15/05	03/16/05	% calculation	
Groundwater A (5C15001-05) Water									
Chloride	**1060**	10.0	mg/L	20	EC51609	03/15/05	03/15/05	EPA 300.0	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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 EC51503 - Solvent Extraction (GC)										
Blank (EC51503-BLK1)				Prepared: 03/15/05 Analyzed: 03/17/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*37.7*		*mg/kg*	*50.0*		*75.4*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*44.0*		"	*50.0*		*88.0*	*70-130*			
LCS (EC51503-BS1)				Prepared: 03/15/05 Analyzed: 03/17/05						
Gasoline Range Organics C6-C12	431	10.0	mg/kg wet	500		86.2	76.3-104			
Diesel Range Organics >C12-C35	491	10.0	"	500		98.2	76.1-118			
Total Hydrocarbon C6-C35	922	10.0	"	1000		92.2	81.8-105			
Surrogate: 1-Chlorooctane	*48.4*		*mg/kg*	*50.0*		*96.8*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*46.8*		"	*50.0*		*93.6*	*70-130*			
Calibration Check (EC51503-CCV1)				Prepared: 03/15/05 Analyzed: 03/17/05						
Gasoline Range Organics C6-C12	482		mg/kg	500		96.4	80-120			
Diesel Range Organics >C12-C35	535		"	500		107	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	*49.4*		"	*50.0*		*98.8*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*53.2*		"	*50.0*		*106*	*70-130*			
Matrix Spike (EC51503-MS1)	**Source: 5C15001-01**			Prepared: 03/15/05 Analyzed: 03/17/05						
Gasoline Range Organics C6-C12	483	10.0	mg/kg dry	527	ND	91.7	75.9-114			
Diesel Range Organics >C12-C35	582	10.0	"	527	ND	110	85.3-122			
Total Hydrocarbon C6-C35	1070	10.0	"	1050	ND	102	84.4-115			
Surrogate: 1-Chlorooctane	*49.2*		*mg/kg*	*50.0*		*98.4*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*51.8*		"	*50.0*		*104*	*70-130*			
Matrix Spike Dup (EC51503-MSD1)	**Source: 5C15001-01**			Prepared: 03/15/05 Analyzed: 03/17/05						
Gasoline Range Organics C6-C12	508	10.0	mg/kg dry	527	ND	96.4	75.9-114	5.05	10.4	
Diesel Range Organics >C12-C35	576	10.0	"	527	ND	109	85.3-122	1.04	10.4	
Total Hydrocarbon C6-C35	1080	10.0	"	1050	ND	103	84.4-115	0.930	7.6	
Surrogate: 1-Chlorooctane	*48.9*		*mg/kg*	*50.0*		*97.8*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*51.2*		"	*50.0*		*102*	*70-130*			

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 EC51509 - EPA 5030C (GC)										
Blank (EC51509-BLK1)				Prepared: 03/14/05 Analyzed: 03/15/05						
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	*87.3*		*ug/l*	*100*		*87.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*81.9*		"	*100*		*81.9*	*80-120*			
LCS (EC51509-BS1)				Prepared: 03/14/05 Analyzed: 03/15/05						
Benzene	110		ug/l	100		110	80-120			
Toluene	113		"	100		113	80-120			
Ethylbenzene	107		"	100		107	80-120			
Xylene (p/m)	237		"	200		118	80-120			
Xylene (o)	117		"	100		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*111*		"	*100*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.5*		"	*100*		*98.5*	*80-120*			
Calibration Check (EC51509-CCV1)				Prepared & Analyzed: 03/14/05						
Benzene	105		ug/l	100		105	80-120			
[illegible]uene	105		"	100		105	80-120			
[illegible]benzene	96.7		"	100		96.7	80-120			
Xylene (p/m)	211		"	200		106	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	*94.3*		"	*100*		*94.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*88.4*		"	*100*		*88.4*	*80-120*			
Matrix Spike (EC51509-MS1)	**Source: 5C15001-06**			Prepared & Analyzed: 03/15/05						
Benzene	111		ug/l	100	ND	111	80-120			
Toluene	115		"	100	ND	115	80-120			
Ethylbenzene	115		"	100	1.87	113	80-120			
Xylene (p/m)	241		"	200	2.17	119	80-120			
Xylene (o)	118		"	100	ND	118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*107*		"	*100*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		"	*100*		*103*	*80-120*			

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 EC51509 - EPA 5030C (GC)										
Matrix Spike Dup (EC51509-MSD1)	**Source: 5C15001-06**			Prepared & Analyzed: 03/15/05						
Benzene	113		ug/l	100	ND	113	80-120	1.79	20	
Toluene	118		"	100	ND	118	80-120	2.58	20	
Ethylbenzene	118		"	100	1.87	116	80-120	2.62	20	
Xylene (p/m)	239		"	200	2.17	118	80-120	0.844	20	
Xylene (o)	118		"	100	ND	118	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*112*		"	*100*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*110*		"	*100*		*110*	*80-120*			
Batch EC51702 - EPA 5030C (GC)										
Blank (EC51702-BLK1)				Prepared & Analyzed: 03/16/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*86.8*		*ug/kg*	*100*		*86.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*82.4*		"	*100*		*82.4*	*80-120*			
LCS (EC51702-BS1)				Prepared & Analyzed: 03/16/05						
Benzene	115		ug/kg	100		115	80-120			
Toluene	117		"	100		117	80-120			
Ethylbenzene	116		"	100		116	80-120			
Xylene (p/m)	239		"	200		120	80-120			
Xylene (o)	116		"	100		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*118*		"	*100*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*119*		"	*100*		*119*	*80-120*			

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 EC51702 - EPA 5030C (GC)										
Calibration Check (EC51702-CCV1)				Prepared & Analyzed: 03/16/05						
Benzene	113		ug/kg	100		113	80-120			
Toluene	118		"	100		118	80-120			
Ethylbenzene	111		"	100		111	80-120			
Xylene (p/m)	238		"	200		119	80-120			
Xylene (o)	117		"	100		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*114*		"	*100*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*95.1*		"	*100*		*95.1*	*80-120*			
Matrix Spike (EC51702-MS1)		**Source: 5C15001-04**		Prepared & Analyzed: 03/16/05						
Benzene	112		ug/kg	100	ND	112	80-120			
Toluene	119		"	100	ND	119	80-120			
Ethylbenzene	116		"	100	ND	116	80-120			
Xylene (p/m)	239		"	200	ND	120	80-120			
Xylene (o)	117		"	100	ND	117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*107*		"	*100*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*111*		"	*100*		*111*	*80-120*			
Matrix Spike Dup (EC51702-MSD1)		**Source: 5C15001-04**		Prepared & Analyzed: 03/16/05						
Benzene	111		ug/kg	100	ND	111	80-120	0.897	20	
Toluene	118		"	100	ND	118	80-120	0.844	20	
Ethylbenzene	117		"	100	ND	117	80-120	0.858	20	
Xylene (p/m)	240		"	200	ND	120	80-120	0.00	20	
Xylene (o)	119		"	100	ND	119	80-120	1.69	20	
Surrogate: a,a,a-Trifluorotoluene	*110*		"	*100*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*113*		"	*100*		*113*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC51601 - General Preparation (Prep)										
Blank (EC51601-BLK1)				Prepared: 03/15/05 Analyzed: 03/16/05						
% Moisture	ND	0.1	%							
Duplicate (EC51601-DUP1)		**Source: 5C14009-01**		Prepared: 03/15/05 Analyzed: 03/16/05						
% Moisture	15.9	0.1	%		16.8			5.50	20	
Batch EC51609 - General Preparation (WetChem)										
Blank (EC51609-BLK1)				Prepared & Analyzed: 03/15/05						
Chloride	ND	0.500	mg/L							
LCS (EC51609-BS1)				Prepared & Analyzed: 03/15/05						
Chloride	10.1		mg/L	10.0		101	80-120			
Calibration Check (EC51609-CCV1)				Prepared & Analyzed: 03/15/05						
Chloride	10.3		mg/L	10.0		103	80-120			
Duplicate (EC51609-DUP1)		**Source: 5C15002-02**		Prepared & Analyzed: 03/15/05						
Chloride	392	10.0	mg/L		391			0.255	20	
Batch EC51611 - Water Extraction										
Blank (EC51611-BLK1)				Prepared & Analyzed: 03/16/05						
Chloride	ND	0.500	mg/kg							
LCS (EC51611-BS1)				Prepared & Analyzed: 03/16/05						
Chloride	10.3		mg/L	10.0		103	80-120			

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Battery Pit Area	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/18/05 16:27

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC51611 - Water Extraction										
Calibration Check (EC51611-CCV1)				Prepared & Analyzed: 03/16/05						
Chloride	10.4		mg/L	10.0		104	80-120			
Duplicate (EC51611-DUP1)		**Source: 5C14001-01**		Prepared & Analyzed: 03/16/05						
Chloride	31.5	5.00	mg/kg		31.3			0.637	20	

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Report Approved By: Raland K Tuttle Date: 3/18/05

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.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin

Company Name: Whole Earth Environmental, Inc.

Company Address: 2103 Arbor Cove

City/State/Zip: Katy, TX 77494

Telephone No: 281.394.2050 Fax No: 281.394.2051

Sampler Signature:

Project Name: Devon

Project #: Patsy Battery Pit Area

Project Loc:

PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 (TOTAL: X)	Chlorides	S.A.R.	E.C.	RUSH TAT (Pre-Schedule)	Standard TAT
01	East Wall # 1	03/14/05	13:35	1	X									X					X				X	X				
02	North Wall # 1	03/14/05	13:35	1	X									X					X				X	X				
03	South Wall # 1	03/14/05	13:35	1	X									X					X				X	X				
04	West Wall # 1	03/14/05	13:35	1	X									X					X				X	X				
05	Groundwater A	03/14/05	15:15	1	X							X												X				
06	Groundwater B as per Elliot	03/14/05	15:15	2	X					X		X											X					

Special Instructions: RUSH H_2O BTEX ONLY

*Add BTEX to soil as per Mike 3-15-05

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0.5 C
Laboratory Comments: 4 oz glass w/seals [illegible] (for soil); [illegible] glass w/seals [illegible] (water); [illegible] HCl glass w/[illegible] (water)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3/15/05	8:00am			
Relinquished by:	Date	Time	Received by ELOT: [signature]	03-15-05	0800

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

Client: Whole Earth Env.

Date/Time: 03-15-05 @ 0800

Order #: 5C15001

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	0.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	(Yes)	No	Not present
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations: *Client added BTEX to soil request 03-15-05

Variance Documentation:

Contact Person: -Mike Griffin Date/Time: 03-15-05 @ 1130 Contacted by: JeanneMcMurr

Regarding: 40mL VOAs COC said none Label said H_2SO_4 as preservative Client said it is HCl

Corrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Devon

Project Number: Patsy Lease

Location: Lea County, New Mexico

Lab Order Number: 5C17010

Report Date: 03/23/05

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Lease	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/23/05 12:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Batt'y, North Wall	5C17010-01	Soil	03/16/05 09:00	03/17/05 12:30
Batt'y, South Wall	5C17010-02	Soil	03/16/05 09:00	03/17/05 12:30
Batt'y, East Wall	5C17010-03	Soil	03/16/05 09:05	03/17/05 12:30
Batt'y, West Wall	5C17010-04	Soil	03/16/05 09:05	03/17/05 12:30
Batt'y, Bottom	5C17010-05	Soil	03/16/05 09:10	03/17/05 12:30
Batt'y, Backfill at -20'	5C17010-06	Soil	03/16/05 09:20	03/17/05 12:30
Batt'y, Backfill at -15'	5C17010-07	Soil	03/16/05 09:25	03/17/05 12:30
Spread Zone, North Wall	5C17010-08	Soil	03/16/05 09:30	03/17/05 12:30
Spread Zone, South Wall	5C17010-09	Soil	03/16/05 09:35	03/17/05 12:30
Spread Zone, East Wall	5C17010-10	Soil	03/16/05 09:40	03/17/05 12:30
Spread Zone, Bottom	5C17010-11	Soil	03/16/05 09:40	03/17/05 12:30
Spread Zone, West Wall	5C17010-12	Soil	03/16/05 09:45	03/17/05 12:30
Pit, Backfil at -25'	5C17010-13	Soil	03/16/05 09:50	03/17/05 12:30
Pit, Backfill at -20'	5C17010-14	Soil	03/16/05 09:55	03/17/05 12:30
Batt'y, Backfill at -10'	5C17010-15	Soil	03/16/05 14:00	03/17/05 12:30
Spread Zone, Backfill at -10'	5C17010-16	Soil	03/16/05 10:30	03/17/05 12:30
Pit Backfill at -15'	5C17010-17	Soil	03/16/05 14:05	03/17/05 12:30
Pit Backfill at -5'	5C17010-18	Soil	03/17/05 08:20	03/17/05 12:30
Spread Zone Backfill at -5'	5C17010-19	Soil	03/16/05 14:10	03/17/05 12:30
Pit Backfill at -10'	5C17010-20	Soil	03/16/05 10:25	03/17/05 12:30
Background, East of Activity	5C17010-21	Soil	03/16/05 10:15	03/17/05 12:30
Batt'y Backfill at -5'	5C17010-22	Soil	03/17/05 08:10	03/17/05 12:30
Batt'y Backfill at Surface	5C17010-23	Soil	03/17/05 08:10	03/17/05 12:30
Pit Backfill at Surface	5C17010-24	Soil	03/17/05 08:25	03/17/05 12:30
Spread Zone at Surface	5C17010-25	Soil	03/17/05 08:15	03/17/05 12:30

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WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Lease	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/23/05 12:15

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Batt'y, North Wall (5C17010-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	
Toluene	**J [0.0119]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51714	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.0 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*86.6 %*	*70-130*		"	"	"	"	
Batt'y, South Wall (5C17010-02) Soil									
Benzene	**0.0275**	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	
Toluene	**0.167**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.146**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.648**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.159**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**183**	10.0	mg/kg dry	1	EC51714	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**712**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**895**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.0 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	
Batt'y, East Wall (5C17010-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	
Toluene	**ND**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**ND**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0488**	0.0250	"	"	"	"	"	"	
Xylene (o)	**J [0.0184]**	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*80.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51714	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Batt'y, East Wall (5C17010-03) Soil									
Surrogate: 1-Chlorooctane		*82.4 %*	*67.6-140*		*EC51714*	*03/17/05*	*03/18/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*91.2 %*	*70-130*		"	"	"	"	
Batt'y, West Wall (5C17010-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51714	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.6 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.0 %*	*70-130*		"	"	"	"	
Batt'y, Bottom (5C17010-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51714	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.6 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.0 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Lease	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/23/05 12:15

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Batt'y, Backfill at -20' (5C17010-06) Soil									
Benzene	**J [0.0191]**	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	J
Toluene	**0.130**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.140**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.688**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.207**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**386**	10.0	mg/kg dry	1	EC51714	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1120**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1510**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*122 %*	*70-130*		"	"	"	"	
Batt'y, Backfill at -15' (5C17010-07) Soil									
Benzene	**J [0.0506]**	0.100	mg/kg dry	100	EC51711	03/17/05	03/17/05	EPA 8021B	J
Toluene	**0.381**	0.100	"	"	"	"	"	"	
Ethylbenzene	**0.442**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**1.74**	0.100	"	"	"	"	"	"	
Xylene (o)	**0.754**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**316**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**807**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1120**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.8 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
Spread Zone, North Wall (5C17010-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	
Toluene	**J [0.0106]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0447**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Spread Zone, North Wall (5C17010-08) Soil									
Surrogate: 1-Chlorooctane		*80.8 %*	*67.6-140*		*EC51715*	*03/17/05*	*03/18/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*94.2 %*	*70-130*		"	"	"	"	
Spread Zone, South Wall (5C17010-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/17/05	EPA 8021B	
Toluene	**J [0.0118]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0184]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0843**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**16.3**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**139**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**155**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.2 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.8 %*	*70-130*		"	"	"	"	
Spread Zone, East Wall (5C17010-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0294**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [6.56]**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**53.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**53.5**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.6 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.6 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Spread Zone, Bottom (5C17010-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC51711	03/17/05	03/18/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [6.10]**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**25.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**25.8**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.2 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.6 %*	*70-130*		"	"	"	"	
Spread Zone, West Wall (5C17010-12) Soil									
Benzene	**0.0656**	0.0250	mg/kg dry	25	EC51711	03/17/05	03/18/05	EPA 8021B	
Toluene	**0.380**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.127**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.290**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.109**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.6 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**89.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**89.4**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.2 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.2 %*	*70-130*		"	"	"	"	
Pit, Backfil at -25' (5C17010-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/21/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0344**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**63.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**63.4**	10.0	"	"	"	"	"	"	

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pit, Backfil at -25' (5C17010-13) Soil									
Surrogate: 1-Chlorooctane		*97.0 %*	*67.6-140*		*EC51715*	*03/17/05*	*03/18/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*97.2 %*	*70-130*		"	"	"	"	
Pit, Backfill at -20' (5C17010-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0309**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.6 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**18.2**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**418**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**436**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.2 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	
att'y, Backfill at -10' (5C17010-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/21/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0231]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0433**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**119**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**2200**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2320**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.4 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*117 %*	*70-130*		"	"	"	"	

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Spread Zone, Backfill at -10' (5C17010-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0304**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.6 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**111**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1990**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2100**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.2 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
Pit Backfill at -15' (5C17010-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	**0.130**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.216**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.367**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.279**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**416**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**2180**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2500**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.0 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	
Pit Backfill at -5' (5C17010-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0377**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**61.6**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1100**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1160**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pit Backfill at -5' (5C17010-18) Soil									
Surrogate: 1-Chlorooctane		*80.2 %*	*67.6-140*		*EC51715*	*03/17/05*	*03/18/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*99.6 %*	*70-130*		"	"	"	"	
Spread Zone Backfill at -5' (5C17010-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	**0.0604**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.138**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.314**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.205**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**258**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1330**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1590**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.4 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.6 %*	*70-130*		"	"	"	"	
Pit Backfill at -10' (5C17010-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0294**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0468**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0385**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [9.72]**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**214**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**214**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.4 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.0 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Background, East of Activity (5C17010-21) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.6 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*111 %*	*70-130*		"	"	"	"	
Batt'y Backfill at -5' (5C17010-22) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	**0.134**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.187**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.303**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.175**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**281**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**2120**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2400**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.2 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.0 %*	*70-130*		"	"	"	"	
Batt'y Backfill at Surface (5C17010-23) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/20/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**10.5**	10.0	mg/kg dry	1	EC51715	03/17/05	03/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	**950**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**960**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Batt'y Backfill at Surface (5C17010-23) Soil									
Surrogate: 1-Chlorooctane		*95.4 %*	*67.6-140*		*EC51715*	*03/17/05*	*03/21/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
Pit Backfill at Surface (5C17010-24) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/21/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0472**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.118**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0561**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**423**	50.0	mg/kg dry	5	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**5750**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**6170**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*10.8 %*	*67.6-140*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*19.7 %*	*70-130*		"	"	"	"	*S-06*
Spread Zone at Surface (5C17010-25) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC52108	03/17/05	03/21/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**ND**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0244]**	0.0250	"	"	"	"	"	"	J
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**36.4**	10.0	mg/kg dry	1	EC51715	03/17/05	03/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1070**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1110**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.4 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.8 %*	*70-130*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Lease	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/23/05 12:15

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Batt'y, North Wall (5C17010-01) Soil									
Chloride	**27.8**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**18.2**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y, South Wall (5C17010-02) Soil									
Chloride	**56.0**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**11.3**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y, East Wall (5C17010-03) Soil									
Chloride	**47.1**	10.0	mg/kg	20	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**17.8**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y, West Wall (5C17010-04) Soil									
Chloride	**35.7**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**16.1**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y, Bottom (5C17010-05) Soil									
Chloride	**71.4**	10.0	mg/kg	20	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**19.7**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y, Backfill at -20' (5C17010-06) Soil									
Chloride	**107**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**9.5**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y, Backfill at -15' (5C17010-07) Soil									
Chloride	**119**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**10.2**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Spread Zone, North Wall (5C17010-08) Soil									
Chloride	**22.5**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**2.1**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	

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WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Lease	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/23/05 12:15

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Spread Zone, South Wall (5C17010-09) Soil									
Chloride	**30.2**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**11.8**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Spread Zone, East Wall (5C17010-10) Soil									
Chloride	**20.4**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**7.4**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Spread Zone, Bottom (5C17010-11) Soil									
Chloride	**28.9**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**2.8**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Spread Zone, West Wall (5C17010-12) Soil									
Chloride	**28.1**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**5.4**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Pit, Backfil at -25' (5C17010-13) Soil									
Chloride	**25.4**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**23.7**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Pit, Backfill at -20' (5C17010-14) Soil									
Chloride	**38.2**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**7.3**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y, Backfill at -10' (5C17010-15) Soil									
Chloride	**174**	10.0	mg/kg	20	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**7.4**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Spread Zone, Backfill at -10' (5C17010-16) Soil									
Chloride	**129**	10.0	mg/kg	20	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**8.9**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pit Backfill at -15' (5C17010-17) Soil									
Chloride	**62.8**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**8.2**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Pit Backfill at -5' (5C17010-18) Soil									
Chloride	**58.6**	10.0	mg/kg	20	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**10.7**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Spread Zone Backfill at -5' (5C17010-19) Soil									
Chloride	**40.2**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**4.3**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Pit Backfill at -10' (5C17010-20) Soil									
Chloride	**57.0**	5.00	mg/kg	10	EC52218	03/19/05	03/19/05	EPA 300.0	
% Moisture	**13.2**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Background, East of Activity (5C17010-21) Soil									
Chloride	**23.1**	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	**3.6**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y Backfill at -5' (5C17010-22) Soil									
Chloride	**102**	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	**11.1**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Batt'y Backfill at Surface (5C17010-23) Soil									
Chloride	**22.5**	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	**3.2**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	
Pit Backfill at Surface (5C17010-24) Soil									
Chloride	**22.2**	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	**9.6**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Lease	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	03/23/05 12:15

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Spread Zone at Surface (5C17010-25) Soil									
Chloride	**38.2**	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	**7.9**	0.1	%	1	EC51803	03/17/05	03/18/05	% calculation	

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 EC51711 - EPA 5030C (GC)										
Blank (EC51711-BLK1)				Prepared & Analyzed: 03/17/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*93.6*		*ug/kg*	*100*		*93.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*91.4*		"	*100*		*91.4*	*80-120*			
LCS (EC51711-BS1)				Prepared & Analyzed: 03/17/05						
Benzene	111		ug/kg	100		111	80-120			
Toluene	119		"	100		119	80-120			
Ethylbenzene	111		"	100		111	80-120			
Xylene (p/m)	239		"	200		120	80-120			
Xylene (o)	115		"	100		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*114*		"	*100*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*110*		"	*100*		*110*	*80-120*			
Calibration Check (EC51711-CCV1)				Prepared & Analyzed: 03/17/05						
Benzene	107		ug/kg	100		107	80-120			
Toluene	110		"	100		110	80-120			
Ethylbenzene	97.9		"	100		97.9	80-120			
Xylene (p/m)	209		"	200		104	80-120			
Xylene (o)	102		"	100		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*109*		"	*100*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*95.7*		"	*100*		*95.7*	*80-120*			
Matrix Spike (EC51711-MS1)	**Source: 5C16007-01**			Prepared & Analyzed: 03/17/05						
Benzene	108		ug/kg	100	ND	108	80-120			
Toluene	114		"	100	15.2	98.8	80-120			
Ethylbenzene	108		"	100	ND	108	80-120			
Xylene (p/m)	239		"	200	ND	120	80-120			
Xylene (o)	113		"	100	ND	113	80-120			
Surrogate: a,a,a-Trifluorotoluene	*107*		"	*100*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*110*		"	*100*		*110*	*80-120*			

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 EC51711 - EPA 5030C (GC)										
Matrix Spike Dup (EC51711-MSD1)	**Source: 5C16007-01**			Prepared & Analyzed: 03/17/05						
Benzene	111		ug/kg	100	ND	111	80-120	2.74	20	
Toluene	118		"	100	15.2	103	80-120	4.16	20	
Ethylbenzene	114		"	100	ND	114	80-120	5.41	20	
Xylene (p/m)	235		"	200	ND	118	80-120	1.68	20	
Xylene (o)	117		"	100	ND	117	80-120	3.48	20	
Surrogate: a,a,a-Trifluorotoluene	*112*		"	*100*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*107*		"	*100*		*107*	*80-120*			
Batch EC51714 - Solvent Extraction (GC)										
Blank (EC51714-BLK1)				Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*36.7*		*mg/kg*	*50.0*		*73.4*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*39.6*		"	*50.0*		*79.2*	*70-130*			
LCS (EC51714-BS1)				Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	467	10.0	mg/kg wet	500		93.4	76.3-104			
Diesel Range Organics >C12-C35	512	10.0	"	500		102	76.1-118			
Total Hydrocarbon C6-C35	979	10.0	"	1000		97.9	81.8-105			
Surrogate: 1-Chlorooctane	*45.0*		*mg/kg*	*50.0*		*90.0*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*47.4*		"	*50.0*		*94.8*	*70-130*			
Calibration Check (EC51714-CCV1)				Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	488		mg/kg	500		97.6	80-120			
Diesel Range Organics >C12-C35	547		"	500		109	80-120			
Total Hydrocarbon C6-C35	1040		"	1000		104	80-120			
Surrogate: 1-Chlorooctane	*50.8*		"	*50.0*		*102*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*55.1*		"	*50.0*		*110*	*70-130*			

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 EC51714 - Solvent Extraction (GC)										
Matrix Spike (EC51714-MS1)	**Source: 5C17006-06**			Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	554	10.0	mg/kg dry	543	ND	102	75.9-114			
Diesel Range Organics >C12-C35	583	10.0	"	543	ND	107	85.3-122			
Total Hydrocarbon C6-C35	1140	10.0	"	1090	ND	105	84.4-115			
Surrogate: 1-Chlorooctane	*52.6*		*mg/kg*	*50.0*		*105*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*52.6*		*"*	*50.0*		*105*	*70-130*			
Matrix Spike Dup (EC51714-MSD1)	**Source: 5C17006-06**			Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	534	10.0	mg/kg dry	543	ND	98.3	75.9-114	3.68	10.4	
Diesel Range Organics >C12-C35	577	10.0	"	543	ND	106	85.3-122	1.03	10.4	
Total Hydrocarbon C6-C35	1110	10.0	"	1090	ND	102	84.4-115	2.67	7.6	
Surrogate: 1-Chlorooctane	*51.1*		*mg/kg*	*50.0*		*102*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*51.4*		*"*	*50.0*		*103*	*70-130*			
Batch EC51715 - Solvent Extraction (GC)										
Blank (EC51715-BLK1)				Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*38.9*		*mg/kg*	*50.0*		*77.8*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*43.6*		*"*	*50.0*		*87.2*	*70-130*			
LCS (EC51715-BS1)				Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	473	10.0	mg/kg wet	500		94.6	76.3-104			
Diesel Range Organics >C12-C35	513	10.0	"	500		103	76.1-118			
Total Hydrocarbon C6-C35	986	10.0	"	1000		98.6	81.8-105			
Surrogate: 1-Chlorooctane	*48.5*		*mg/kg*	*50.0*		*97.0*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*46.9*		*"*	*50.0*		*93.8*	*70-130*			

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 EC51715 - Solvent Extraction (GC)										
Calibration Check (EC51715-CCV1)				Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	486		mg/kg	500		97.2	80-120			
Diesel Range Organics >C12-C35	518		"	500		104	80-120			
Total Hydrocarbon C6-C35	1000		"	1000		100	80-120			
Surrogate: 1-Chlorooctane	*51.9*		"	*50.0*		*104*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*51.6*		"	*50.0*		*103*	*70-130*			
Matrix Spike (EC51715-MS1)	**Source: 5C17010-08**			Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	516	10.0	mg/kg dry	511	ND	101	75.9-114			
Diesel Range Organics >C12-C35	579	10.0	"	511	ND	113	85.3-122			
Total Hydrocarbon C6-C35	1100	10.0	"	1020	ND	108	84.4-115			
Surrogate: 1-Chlorooctane	*55.1*		*mg/kg*	*50.0*		*110*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*54.7*		"	*50.0*		*109*	*70-130*			
Matrix Spike Dup (EC51715-MSD1)	**Source: 5C17010-08**			Prepared: 03/17/05 Analyzed: 03/18/05						
Gasoline Range Organics C6-C12	517	10.0	mg/kg dry	511	ND	101	75.9-114	0.194	10.4	
Diesel Range Organics >C12-C35	544	10.0	"	511	ND	106	85.3-122	6.23	10.4	
Total Hydrocarbon C6-C35	1060	10.0	"	1020	ND	104	84.4-115	3.70	7.6	
Surrogate: 1-Chlorooctane	*49.7*		*mg/kg*	*50.0*		*99.4*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*48.1*		"	*50.0*		*96.2*	*70-130*			
Batch EC52108 - EPA 5030C (GC)										
Blank (EC52108-BLK1)				Prepared: 03/17/05 Analyzed: 03/21/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*94.3*		*ug/kg*	*100*		*94.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*80.9*		"	*100*		*80.9*	*80-120*			

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 EC52108 - EPA 5030C (GC)										
LCS (EC52108-BS1)				Prepared: 03/17/05 Analyzed: 03/21/05						
Benzene	2540		ug/kg	2500		102	80-120			
Toluene	2320		"	2500		92.8	80-120			
Ethylbenzene	2020		"	2500		80.8	80-120			
Xylene (p/m)	4290		"	5000		85.8	80-120			
Xylene (o)	2040		"	2500		81.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*102*		"	*100*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*88.7*		"	*100*		*88.7*	*80-120*			
Calibration Check (EC52108-CCV1)				Prepared: 03/17/05 Analyzed: 03/20/05						
Benzene	113		ug/kg	100		113	80-120			
Toluene	109		"	100		109	80-120			
Ethylbenzene	105		"	100		105	80-120			
Xylene (p/m)	229		"	200		114	80-120			
Xylene (o)	115		"	100		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*110*		"	*100*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*88.1*		"	*100*		*88.1*	*80-120*			
Matrix Spike (EC52108-MS1)	**Source: 5C17010-21**			Prepared: 03/17/05 Analyzed: 03/21/05						
Benzene	2730		ug/kg	2500	ND	109	80-120			
Toluene	2620		"	2500	ND	105	80-120			
Ethylbenzene	2330		"	2500	ND	93.2	80-120			
Xylene (p/m)	5280		"	5000	ND	106	80-120			
Xylene (o)	2400		"	2500	ND	96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*98.3*		"	*100*		*98.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*107*		"	*100*		*107*	*80-120*			
Matrix Spike Dup (EC52108-MSD1)	**Source: 5C17010-21**			Prepared: 03/17/05 Analyzed: 03/21/05						
Benzene	2720		ug/kg	2500	ND	109	80-120	0.00	20	
Toluene	2660		"	2500	ND	106	80-120	0.948	20	
Ethylbenzene	2230		"	2500	ND	89.2	80-120	4.39	20	
Xylene (p/m)	5020		"	5000	ND	100	80-120	5.83	20	
Xylene (o)	2190		"	2500	ND	87.6	80-120	9.15	20	
Surrogate: a,a,a-Trifluorotoluene	*108*		"	*100*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*107*		"	*100*		*107*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC51803 - General Preparation (Prep)										
Blank (EC51803-BLK1)				Prepared: 03/17/05 Analyzed: 03/18/05						
% Moisture	ND	0.1	%							
Duplicate (EC51803-DUP1)	**Source: 5C17002-01**			Prepared: 03/17/05 Analyzed: 03/18/05						
% Moisture	3.6	0.1	%		4.6			24.4	20	
Batch EC52217 - Water Extraction										
Blank (EC52217-BLK1)				Prepared & Analyzed: 03/19/05						
Chloride	ND	0.500	mg/kg							
LCS (EC52217-BS1)				Prepared & Analyzed: 03/19/05						
Chloride	10.6		mg/L	10.0		106	80-120			
Calibration Check (EC52217-CCV1)				Prepared & Analyzed: 03/19/05						
Chloride	10.0		mg/L	10.0		100	80-120			
Duplicate (EC52217-DUP1)	**Source: 5C17010-21**			Prepared & Analyzed: 03/19/05						
Chloride	21.0	5.00	mg/kg		23.1			9.52	20	
Batch EC52218 - Water Extraction										
Blank (EC52218-BLK1)				Prepared & Analyzed: 03/19/05						
Chloride	ND	0.500	mg/kg							
LCS (EC52218-BS1)				Prepared & Analyzed: 03/19/05						
Chloride	10.5		mg/L	10.0		105	80-120			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC52218 - Water Extraction										
Calibration Check (EC52218-CCV1)				Prepared & Analyzed: 03/19/05						
Chloride	10.6		mg/L	10.0		106	80-120			
Duplicate (EC52218-DUP1)		**Source: 5C17010-01**		Prepared & Analyzed: 03/19/05						
Chloride	27.9	5.00	mg/kg		27.8			0.359	20	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 3/23/2005

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.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, Texas 77494
Telephone No: (281) 394-2050
Fax No: (281) 394-2051
Sampler Signature:

Project Name: Devon
Project #: Patsy Lease
Project Loc: Lea County, New Mexico
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TDS / CL / SAR / EC	TPH 418.1 / 8015M	TPH TX 1005/1006	TPH 8015M GRO/DRO	TCLP: Metals: As Ag Ba Cd Cr Pb Hg Se	TOTAL: Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	S.A.R.	E.C.				RUSH TAT (Pre-Schedule)	Standard TAT
01	Batt'y, North Wall	03/16/05	9:00	1	X									X			X						X	X							
02	Batt'y, South Wall	03/16/05	9:00	1	X									X			X						X	X							
03	Batt'y, East Wall	03/16/05	9:05	1	X									X			X						X	X							
04	Batt'y, West Wall	03/16/05	9:05	1	X									X			X						X	X							
05	Batt'y, Bottom	03/16/05	9:10	1	X									X			X						X	X							
06	Batt'y, Backfill at -20'	03/16/05	9:20	1	X									X			X						X	X							
07	Batt'y, Backfill at -15'	03/16/05	9:25	1	X									X			X						X	X							
08	Spread Zone, North Wall	03/16/05	9:30	1	X									X			X						X	X							
09	Spread Zone, South Wall	03/16/05	9:35	1	X									X			X						X	X							
10	Spread Zone, East Wall	03/16/05	9:40	1	X									X			X						X	X							
11	Spread Zone, Bottom	03/16/05	9:40	1	X									X			X						X	X							
12	Spread Zone, West Wall	03/16/05	9:45	1	X									X			X						X	X							

Special Instructions:
Please notify Darrell Glueck at (713) 775-6350 if: TPH>5000mg/l; BTEX>CWA; Chlorides>250mg/l.

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
D. A. Glueck, Whole Earth Environmental	3/17/05	12:30			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				3/17/05	1:30

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, Texas 77494
Telephone No: (281) 394-2050 Fax No: (281) 394-2051
Sampler Signature:

Project Name: Devon
Project #: Patsy Lease
Project Loc: Lea County, New Mexico
PO #:

Lab I.D. (Lab Use Only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TDS / CL / SAR / EC	TPH 418.1 8015M	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	TOTAL: Chlorides	S.A.R.	E.C.				RUSH TAT (Pre-Schedule)	Standard TAT
5	Pit, Backfill at -25'	03/16/05	9:50	1	X									X			X						X	X							
6	Pit, Backfill at -20'	03/16/05	9:55	1	X									X			X						X	X							
7	Batt'y Backfill at -10'	03/16/05	14:00	1	X									X			X						X	X							
8	Spread Zone Backfill at -10'	03/16/05	10:30	1	X									X			X						X	X							
9	Pit Backfill at -15'	03/16/05	14:05	1	X									X			X						X	X							
10	Pit Backfill at -5'	03/17/05	8:20	1	X									X			X						X	X							
11	Spread Zone Backfill at -5'	03/16/05	14:10	1	X									X			X						X	X							
12	Pit Backfill at -10'	03/16/05	10:25	1	X									X			X						X	X							
13	Background, East of Activity	03/16/05	10:15	1	X									X			X						X	X							
14	Batt'y Backfill at -5	03/17/05	8:10	1	X									X			X						X	X							
15	Batt'y Backfill at Surface	03/17/05	8:10	1	X									X			X						X	X							
16	Pit Backfill at Surface	03/17/05	8:25	1	X									X			X						X	X							

Special Instructions:

Please notify Darrell Glueck at (713) 775-6350 if: TPH>5000mg/l; BTEX>CWA; Chlorides>250mg/l.

Sample Containers Intact? Y N
Temperature Upon Receipt:
VOCs Free of Headspace? Y N
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
D. A. Glueck, Whole Earth Environmental	3/17/05	12:30			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				3/17/05	12:30

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, Texas 77494
Telephone No: (281) 394-2050
Fax No: (281) 394-2051
Sampler Signature:

Project Name: Devon
Project #: Patsy Lease
Project Loc: Lea County, New Mexico
PO #:

Analyze For: TCLP: / TOTAL:

Lab # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	TDS / CL / SAR / EC	TPH 418.1 8015M	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	S.A.R.	E.C.				RUSH TAT (Pre-Schedule)	Standard TAT
[illegible]	Spread Zone at Surface	03/17/05	8:15	1	X									X			X						X	X							
				1	X									X			X						X	X							
				1	X									X			X						X	X							
				1	X									X			X						X	X							
				1	X									X			X						X	X							
				1	X									X			X						X	X							
				1	X									X			X						X	X							
				1	X									X			X						X	X							
				1	X									X			X						X	X							

Special Instructions:

Please notify Darrell Glueck at (713) 775-6350 if: TPH>5000mg/l; BTEX>CWA; Chlorides>250mg/l.

Sample Containers Intact? Y N
Temperature Upon Receipt:
VOCs Free of Headspace?
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
D. A. Glueck, Whole Earth Environmental	3/17/05	12:30			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[illegible]	[illegible]	[illegible]

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mike Griffin

WHOLE EARTH ENVIRONMENTAL

2103 Arbor Cove

Katy, TX 77494

Project: Devon

Project Number: Patsy Battery

Location: None Given

Lab Order Number: 5C28002

Report Date: 04/05/05

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Battery	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	04/05/05 09:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5C28002-01	Water	03/27/05 12:20	03/28/05 10:55
MW-3	5C28002-02	Water	03/27/05 13:00	03/28/05 10:55
MW-4	5C28002-03	Water	03/27/05 13:50	03/28/05 10:55
MW-5	5C28002-04	Water	03/27/05 14:30	03/28/05 10:55
MW-6	5C28002-05	Water	03/27/05 15:10	03/28/05 10:55
MW-7	5C28002-06	Water	03/27/05 15:45	03/28/05 10:55

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5C28002-01) Water									
Benzene	**0.00202**	0.00100	mg/L	1	ED50105	03/31/05	04/01/05	EPA 8021B	
Toluene	**0.00269**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00419**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00258**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.00242**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*134 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*87.0 %*	*80-120*		"	"	"	"	
MW-3 (5C28002-02) Water									
Benzene	ND	0.00100	mg/L	1	ED50105	03/31/05	03/31/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*80-120*		"	"	"	"	
MW-4 (5C28002-03) Water									
Benzene	ND	0.00100	mg/L	1	ED50105	03/31/05	03/31/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.5 %*	*80-120*		"	"	"	"	
MW-5 (5C28002-04) Water									
Benzene	ND	0.00100	mg/L	1	ED50105	03/31/05	04/01/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (5C28002-05) Water									
Benzene	**J [0.000724]**	0.00100	mg/L	1	ED50105	03/31/05	04/01/05	EPA 8021B	J
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*80-120*		"	"	"	"	
MW-7 (5C28002-06) Water									
Benzene	ND	0.00100	mg/L	1	ED50105	03/31/05	04/01/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*	*80-120*		"	"	"	"	

WHOLE EARTH ENVIRONMENTAL	Project: Devon	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Patsy Battery	**Reported:**
Katy TX, 77494	Project Manager: Mike Griffin	04/05/05 09:36

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5C28002-01) Water									
Chloride	**560**	10.0	mg/L	20	EC53105	03/31/05	03/31/05	EPA 300.0	
MW-3 (5C28002-02) Water									
Chloride	**664**	10.0	mg/L	20	EC53105	03/31/05	03/31/05	EPA 300.0	
MW-4 (5C28002-03) Water									
Chloride	**472**	10.0	mg/L	20	EC53105	03/31/05	03/31/05	EPA 300.0	
MW-5 (5C28002-04) Water									
Chloride	**572**	10.0	mg/L	20	EC53105	03/31/05	03/31/05	EPA 300.0	
MW-6 (5C28002-05) Water									
Chloride	**1190**	12.5	mg/L	25	EC53105	03/31/05	03/31/05	EPA 300.0	
MW-7 (5C28002-06) Water									
Chloride	**538**	10.0	mg/L	20	EC53105	03/31/05	03/31/05	EPA 300.0	

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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 ED50105 - EPA 5030C (GC)										
Blank (ED50105-BLK1)				Prepared & Analyzed: 03/31/05						
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	*22.3*		*ug/l*	*20.0*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*16.2*		*"*	*20.0*		*81.0*	*80-120*			
LCS (ED50105-BS1)				Prepared & Analyzed: 03/31/05						
Benzene	106		ug/l	100		106	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	107		"	100		107	80-120			
Xylene (p/m)	223		"	200		112	80-120			
Xylene (o)	108		"	100		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*23.5*		*"*	*20.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*19.5*		*"*	*20.0*		*97.5*	*80-120*			
Calibration Check (ED50105-CCV1)				Prepared: 03/31/05 Analyzed: 04/01/05						
Benzene	95.6		ug/l	100		95.6	80-120			
Toluene	95.4		"	100		95.4	80-120			
Ethylbenzene	95.5		"	100		95.5	80-120			
Xylene (p/m)	191		"	200		95.5	80-120			
Xylene (o)	91.6		"	100		91.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*22.6*		*"*	*20.0*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*17.7*		*"*	*20.0*		*88.5*	*80-120*			
Matrix Spike (ED50105-MS1)	**Source: 5C28003-03**			Prepared: 03/31/05 Analyzed: 04/01/05						
Benzene	103		ug/l	100	ND	103	80-120			
Toluene	103		"	100	ND	103	80-120			
Ethylbenzene	105		"	100	ND	105	80-120			
Xylene (p/m)	218		"	200	ND	109	80-120			
Xylene (o)	108		"	100	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*23.1*		*"*	*20.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*21.3*		*"*	*20.0*		*106*	*80-120*			

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 ED50105 - EPA 5030C (GC)										
Matrix Spike Dup (ED50105-MSD1)	**Source: 5C28003-03**			Prepared: 03/31/05 Analyzed: 04/01/05						
Benzene	106		ug/l	100	ND	106	80-120	2.87	20	
Toluene	106		"	100	ND	106	80-120	2.87	20	
Ethylbenzene	103		"	100	ND	103	80-120	1.92	20	
Xylene (p/m)	218		"	200	ND	109	80-120	0.00	20	
Xylene (o)	107		"	100	ND	107	80-120	0.930	20	
Surrogate: a,a,a-Trifluorotoluene	*22.8*		"	*20.0*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*18.2*		"	*20.0*		*91.0*	*80-120*			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC53105 - General Preparation (WetChem)										
Blank (EC53105-BLK1)				Prepared & Analyzed: 03/31/05						
Chloride	ND	0.500	mg/L							
LCS (EC53105-BS1)				Prepared & Analyzed: 03/31/05						
Chloride	10.5		mg/L	10.0		105	80-120			
Calibration Check (EC53105-CCV1)				Prepared & Analyzed: 03/31/05						
Chloride	10.7		mg/L	10.0		107	80-120			
Duplicate (EC53105-DUP1)	**Source: 5C28002-01**			Prepared & Analyzed: 03/31/05						
Chloride	560	10.0	mg/L		560			0.00	20	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 4/5/2005

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.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: M. Griffin
Company Name: Whole Earth Environmental, Inc.
Company Address: 2103 Arbor Cove
City/State/Zip: Katy, TX 77494
Telephone No: 281.394.2050
Fax No: 281.394.2051
Sampler Signature:

Project Name: Devon
Project #: Patsy Battery
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl 40mL glass (2)	NaOH	H2SO4	None 4oz glass (1)	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Chlorides	S.A.R.	E.C.				RUSH TAT (Pre-Schedule)	Standard TAT
28802																TCLP:							TOTAL:									
-01	MW - 1	03/27/05	12:20	3	X		X			X		X											X	X							
-02	MW - 3	03/27/05	13:00	3	X		X			X		X											X	X							
-03	MW - 4	03/27/05	13:50	3	X		X			X		X											X	X							
-04	MW - 5	03/27/05	14:30	3	X		X			X		X											X	X							
-05	MW - 6	03/27/05	15:10	3	X		X			X		X											X	X							
-06	MW - 7	03/27/05	15:45	3	X		X			X		X											X	X							

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 1.5 °C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3-28-05	10:55			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[signature]	03-28-05	10:55

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

Client: Whole Earth

Date/Time: 3/28/05 11:00

Order #: 5C28002

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	(Yes)	No	Not present
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____