3R - 318

REPORTS

DATE:

JAN. 21, 2003

Williams

Environmental Project Services
188 County Road 4900
Bloomfield, NM 87413
505-634-4956 Phone
505-327-4577 Fax

January 21, 2003

Mr. Bill Olson
Hydrogeologist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: FLORANCE #124 PIT REMEDIATION AND CLOSURE REPORT

Dear Mr. Olson:

Enclosed please find information on remediation and closure activities associated with the unlined surface impoundment located at the Florance #124 site. Public Service Company of New Mexico (PNM) previously owned the site and initiated closure activities on August 1, 1996. The site later became an asset of Williams upon purchase of Gas Company of New Mexico (GCNM) from PNM. Upon expiration of PNM's retained environmental liabilities associated with the site, Williams agreed to complete necessary closure work. As such, the enclosed documentation reflects activities of both PNM and Williams.

Site History

Excavation of petroleum hydrocarbon-impacted soil beneath the unlined surface impoundment was conducted in three phases. Phase I began on August 1, 1996 with the excavation and landfarming of approximately 425 cubic yards of contaminated soil. Ground water was encountered at a depth of 14-feet and the excavation was terminated at 15-feet. A sample of ground water collected from the excavation contained benzene (2214.6 µg/l), toluene (7397.7 µg/l) and total xylenes (4033.8 µg/l) at concentrations in excess of Water Quality Control Commission (WQCC) standards.

To evaluate the magnitude and extent of ground water contamination, four monitoring wells were installed on August 28, 1996. Free-phase product was not encountered in any well. Water samples collected in the third and fourth quarters of 1996 indicated that background TDS levels were in excess of 10,000 mg/l and that the source area well, MW-2, was the only well with elevated BTEX levels. Based on the TDS levels, PNM argued in their April 15, 1997 Groundwater Site Summary Report that area ground water had no beneficial use and requested closure of the site. No record of a response from NMOCD to the closure request exists in the files provided by PNM. It is assumed that the request was denied as evidenced by PNM's implementation of Phase II of the project.

Phase II began on March 2, 1999 with the excavation and landfarming of an additional 663 cubic yards of contaminated soil from an area centered around the source area well MW-2. Well MW-2 was left in place and monitoring continued through October 14, 1999. Dissolved BTEX levels in MW-2 remained above WQCC standards so a third phase of excavation was initiated on January 4, 2000. Phase III resulted in the removal of an additional 1321 cubic yards of contaminated soil. Monitoring well MW-2 was removed and replaced on January 18, 2000 with two new wells identified as MW-5 and MW-6. Exhibit A contains the original PNM Pit Remediation and Closure Report. In addition, excavation maps, field notes and landfarm confirmation sample results are included.

Site Hydrogeology

The Florance #124 site is located in Unit C, Section 27, Township 29N, Range 9W of San Juan County, New Mexico (Figure 1). The site lies on the northeast edge of Largo Canyon. The alluvial sediments consist primarily of brown, silty sand grading from fine near the surface to coarse at 3-feet below ground surface. At 10-feet the material is primarily gray, coarse sand. Bedrock was encountered in one part of the excavation at a depth of 17-feet below ground surface.

Ground water in the unconsolidated sediments is unconfined and the depth to ground water is typically around 10-feet below ground level. A hydrograph for the wells is included in Exhibit B. Ground water flows to the southwest toward Largo Canyon. A potentiometric surface map is included in Exhibit B. The average hydraulic gradient across the site is 0.002. Hydraulic conductivities of the sediments are likely on the order of 10^{-3} to 10^{-1} cm/sec.

Monitoring Results

Concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) were analyzed in water samples collected quarterly from September 1996 through June 2002. The initial monitoring network consisted of four wells identified as MW-1 through MW-4. Wells MW-1, MW-3 and MW-4 demonstrated four consecutive quarters of no detectable BTEX beginning with the first sampling event on September 5, 1996. Sampling of these wells was discontinued in January 1998 with the exception of a final closure sampling conducted in June 2002.

After three years of monitoring well MW-2 total BTEX levels decreased from 1639.1 µg/l to 67.9µg/l. Still, the benzene concentration remained at 53 µg/l, well above WQCC standards. Following Phase III excavation activities, well MW-2 was replaced with wells MW-5 and MW-6. Concentrations of BTEX in well MW-5 were never detected. Total BTEX in well MW-6 was initially at 1014 µg/l, but rapidly decreased to levels below the constituent detection limits. All monitoring wells have now demonstrated four consecutive quarters of BTEX levels below WQCC standards. Table 1 summarizes the ground water analytical results. Copies of laboratory analytical reports not previously submitted are attached.

Summary

The unlined surface impoundment at the Florance #124 site was addressed consistent with OCD Order 7940-C and with the guidelines pertaining to the remediation of unlined surface impoundments. The work included the removal of hydrocarbon-impacted soil and an evaluation of ground water impacted by the historical operation of the impoundment. A network of ground water monitoring wells was installed and ground water analyses showed that a BTEX plume existed in the vicinity of the former pit location. Natural attenuation of the BTEX compounds along with extensive source removal resulted in contaminant degradation to concentrations less than WQCC standards.

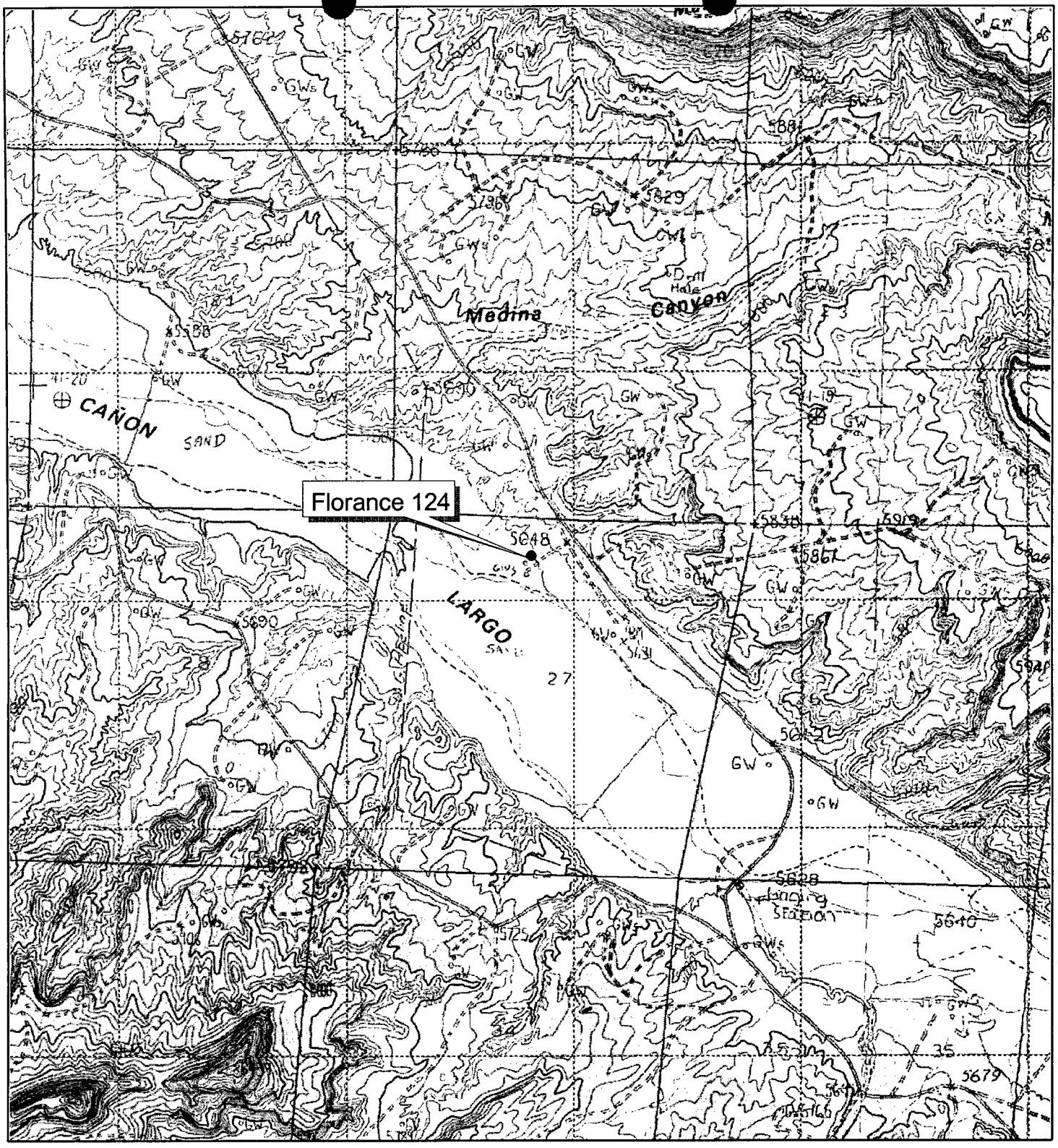
Based on current site conditions, Williams requests approval for closure of the Florance #124 site. Following receipt of your closure approval we will plug and abandon the monitoring wells in accordance with applicable regulations. Williams appreciates your time in reviewing this site closure request. If you have any questions or require any additional information, please contact me at 505-634-4956 or Jim Struhs, Project Hydrogeologist at 801-558-1918.

Respectfully,

Mark B. Harvey
Project Coordinator

Attachments

c: Mr. Denny Foust, NMOCD, District III
Mr. Bill Liess, BLM, Farmington District Office



Williams

Figure 1. Site Location Map

Florance #124

Unit C, Sec. 27, T29N, R9W

N

1000 0 1000 2000 Feet

EXHIBIT A

ORIGINAL PIT REMEDIATION AND CLOSURE REPORT

Rm # 10-62

Unlined Surface Impoundment Assessment Form

Site Information:

Well Name:	Florence #124			
Operator:	Amoco			
Legal Description:	Sec: 27	Twn: 29N	Rng: 9W	Unit: C
Meter #:	4978-21	PNM ☐ Y ☐ N		

Vulnerable Area: ☑ Original ☐ Expanded ☐ Extended ☐ Other _____

Date: 11/29/95 Time: 1145 (AM)/PM

Well Pad Dimensions: L 200 W 200

GCL Data Sheet #: 231

Canyon: Largo

Quad Map (#): Blanco

Site: ☑ Active ☐ Abandoned ☐ P & A ☐ Temp. Disconnected

Dehydrator/Separator/Drip: ☑ Dehydrator ☐ Drip ☑ Separator ☐ None Other Discharges _____

Pit Information:

PNM Pit #1: ☑ Yes ☐ No

Pit Dimensions: DH ☐ SEP ☐ DR ☐ — L 15 W 15 D 3

Ref: WH ☒ Other _____

Distance from Ref. 100'

Degrees: Due South

VDW 20' HDW 600'

Water Sources: ☐ Water Well ☑ Listed Canyon ☐ Stock Pond ☐ Other _____

OCD Rank:	Score
Depth to Water	20
W/H Prot. Area	0
Dist to Surf. Water	10
Total	30

OVM 425 ppm

Testhole Depth 3'

Soil Desc. Sandy light grey

☐ Active ☐ SAT ☑ Inactive ☐ Inaccessible

Fenced ☑ Yes ☐ No

Birdcones ☐ Yes ☐ No N/A

Netting ☐ Yes ☐ No N/A

Other Pits:

Pit #	Fence	Net	OVM	Inacc.	Tank
2	Y	Y			Y
3	Y	Y			Y
4	Y	Y			Y

Lab Sample: ☐ Yes ☒ No Sample #(s): _____ COC#: _____

Geographical:

Geology: ☑ SS ☑ Clay ☑ Sand ☐ Outcrop ☐ Rock ☐ Gravel ☐ Cliffs ☐ Silt ☐ Other _____

Terrain: ☐ Mesa Top ☐ Trailing Slope ☑ River Bottom ☐ Other _____

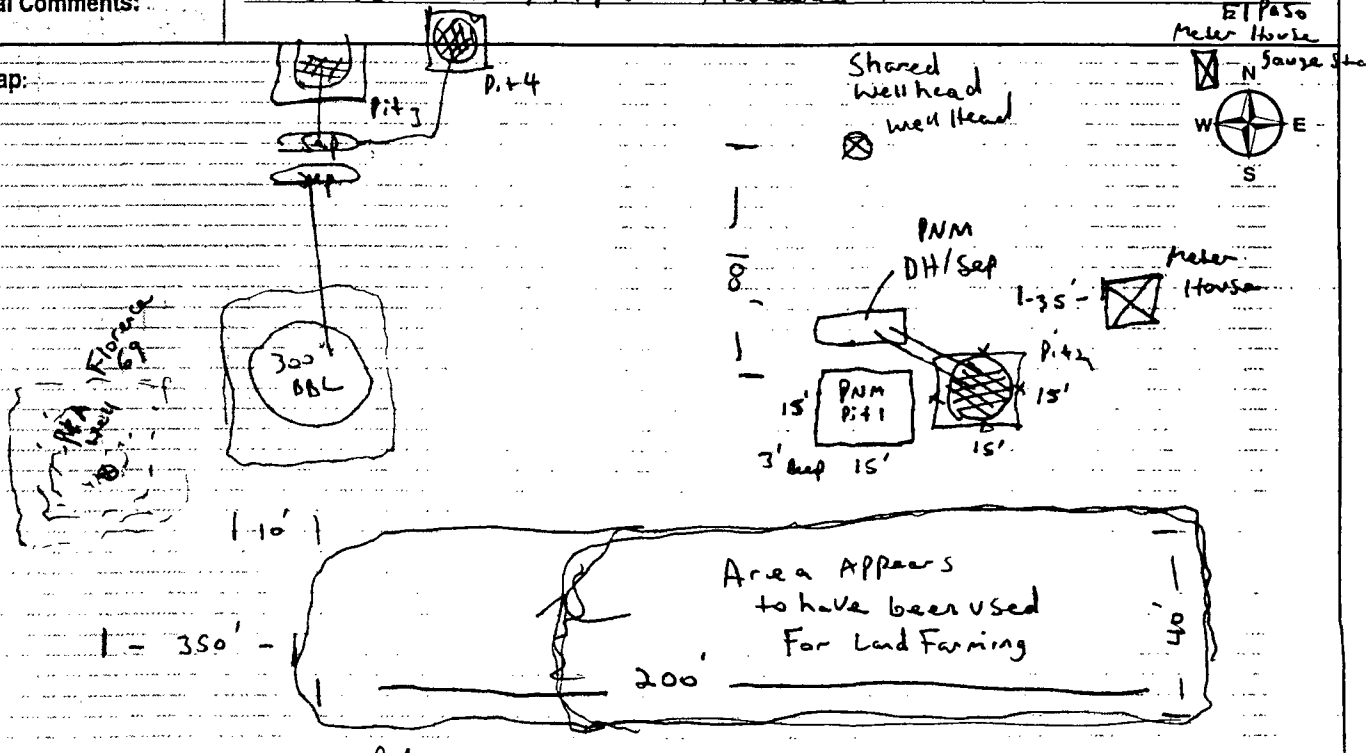
Land Use: ☑ Grazing ☐ Residential ☐ Recreation ☐ Other _____

Land Type: ☑ BLM ☐ State ☐ Fee ☐ Other _____

Vegetation: Well Pad ☑ Normal ☐ Stressed ☐ None — Area ☑

General Comments: Shared Site w/ El Paso Abandoned PNM Pit

Site Map:



Assessor's Signature: _____ Date: 11/29/95

District I
Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88221
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator PNM Gas Services **Telephone:** (505) 324-3764

Address: 603 West Elm Farmington, NM 87401

Facility or Well Name: Florance # 124

Location: Unit or Qtr/Qtr Sec C Sec 27 T 29N R 9W County San Juan

Pit Type: Separator ____ Dehydrator X Other ____

Land Type: BLM X State ____ Fee ____ Other ____

Pit Location: (Attach diagram)

Pit dimensions: length 15 width 15 depth 3

Reference: wellhead ~~Tank~~ other ____

Footage from reference: 100'

Direction from reference 90° Degrees X East North ____ of ____ West South X

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	20
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)	Largo Wash Yes No	(20 points) (0 points)	~~20~~
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	10

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 8-1-96 **Date Completed:** 8-6-96

Remediation Method: Excavation X Approx. cubic yards _____

(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility) Onsite X Offsite _____

General Description of Remedial Action: _____

Ground Water Encountered: No _____ Yes X Depth 14'

Final Pit

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location #9608020930 water at 14'

#9608021000 soil 4 walls + bottom

Sample depth 12' water 14'

Sample date 8-2-96 Sample time 1000

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) _____

TPH _____

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

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

DATE

SIGNATURE Kay Cook PRINTED NAME AND TITLE

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Denver Bearden*	Date:	5-Aug-96
Company:	*PNM Gas Services*	*COC No.:*	*4935*
Address:	*603 W. Elm*	*Sample No.*	*11680*
City, State:	*Farmington, NM 87401*	*Job No.*	*2-1000*

Project Name:	***PNM Gas Services - Florance 124***				
Project Location:	***9608021000; 5pt. Composite***				
Sampled by:	GC	Date:	2-Aug-96	Time:	10:00
Analyzed by:	HR	Date:	5-Aug-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	3122.5	ug/kg	0.2	ug/kg
Toluene	67771.4	ug/kg	0.2	ug/kg
Ethylbenzene	8791.0	ug/kg	0.2	ug/kg
m,p-Xylene	77503.2	ug/kg	0.2	ug/kg
o-Xylene	18576.4	ug/kg	0.2	ug/kg
TOTAL	175764.6	ug/kg		

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 8/5/96

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

Diesel Range Organics

Attn:	*Denver Bearden*	Date:	5-Aug-96
Company:	*PNM Gas Services*	*COC No.:*	*4935*
Address:	*603 W. Elm*	*Sample No.*	*11680*
City, State:	*Farmington, NM 87401*	*Job No.*	*2-1000*

Project Name:	***PNM Gas Services - Florance 124***				
Project Location:	***9608021000; 5pt. Composite***				
Sampled by:	GC	Date:	2-Aug-96	Time:	10:00
Analyzed by:	HR	Date:	5-Aug-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Diesel Range Organics (C10 - C28)	11.9	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.: *0479-QC*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,883	5.8	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Diesel Range (C10-C28)	93	99	(70-130)	5	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: JaC
Date: 8/5/96

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Denver Bearden*	*Date:*	2-Aug-96
Company:	*PNM Gas Services*	*COC No.:*	*4936*
Address:	*603 W. Elm*	*Sample No.:*	*11681*
City, State:	*Farmington, NM 87401*	*Job No.:*	*2-1000*

Project Name:	***PNM Gas Services - Florance 124***				
Project Location:	***9608020930***				
Sampled by:	GC	Date:	2-Aug-96	Time:	9:30
Analyzed by:	DC	Date:	2-Aug-96		
Sample Matrix:	*Water*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	2214.6	ug/L	0.2	ug/L
Toluene	7397.7	ug/L	0.2	ug/L
Ethylbenzene	297.1	ug/L	0.2	ug/L
m,p-Xylene	3082.0	ug/L	0.2	ug/L
o-Xylene	951.8	ug/L	0.2	ug/L
TOTAL	13943.1	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: JC
Date: 8/2/96

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 2-Aug-96

Internal QC No.: 0486-QC
Surrogate QC No.: 0488-QC
Reference Standard QC No.: 0417-QC

Method Blank

Parameter	*Result*	*Unit of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	18.9	6	15%
Toluene	ppb	20.0	19.4	3	15%
Ethylbenzene	ppb	20.0	19.7	1	15%
m,p-Xylene	ppb	40.0	39.1	2	15%
o-Xylene	ppb	20.0	19.3	3	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	108	109	(39-150)	0	20%
Toluene	115	114	(46-148)	1	20%
Ethylbenzene	115	114	(32-160)	1	20%
m,p-Xylene	112	111	(35-145)	0	20%
o-Xylene	108	109	(35-145)	1	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovered	(70-130)	
11681-4936	100	

S1: *Flourobenzene*

8/1/96 - 8/6/96

Excavation Work Sheet

Well Name	Operator	S	T	R	Ul
Florance #124	Amoco	27	29N	9W	C

Pit Dimensions at Start	Excavation Dimensions at End
15X15X3	28X27X15

Excavated Cu. Yds.	Overburden Cu. Yds.	Spoil Cu. Yds.
420	0	420

PIT PID READINGS

Feet	Center	N. Wall	S. Wall	E. Wall	W. Wall	Soil Type
3'	113	10.8	13.9	5	15	Sand
6'	641	24.3	12.1	8.3	12.6	Sand
9'	485	15.3	15.2	9.7	9.5	Sand
12'	685	67.3	32.2	71.2	12	Sand
15'	792	132	419	411	270	Sand
18'						
21'						

Composite Sample # 9608021000 Water Sample # 9608020930

Location	Depth	PID Reading
North Wall	12'	132
South Wall	12'	419
East Wall	12'	411
West Wall	12'	270
Pit Bottom	15'	88

Land Farm Location:	On Location

Back Fill Location:	BLM approved Wash 1.6 Miles east of location.

Comments:	Water at 14', walls very unstable.

Florance #124
Sec. 27,29N, 9W, Conoco
Amoco

Date: August 1, 1996

8-01-96: Ray Haston and contractor excavated pit. At 14' water was seeping into pit. Walls were not very stable and started collapsing. The pit was excavated to 28X27X15 ft. Pit was left open for 24 hours, before grabbing water sample.

8-02-96: Water sample grabbed #9608020930.
Lab results high. Pit fenced in and left open for Tierra Environmetal to chemical treat.

8-05-96: Tierra Enviromental to treat pit. Pit was sprayed with 250 gallons of solution (Oxy). Environmental well was placed in middle of pit and 4 yards of gravel spread around base.

Spoil pile approximately 425 yards was landfarmed on location.

8-06-96: Backfilling pit with clean soil from BLM approved wash.

8-07-96 - Back filled pit

PNM Environmental Services

Excavation Field Notes

[redacted] RAD

Date: 3/2/99			Name: R. Dedrick				
Well Name			Operator	S	T	R	UI
Florance 124			Amoco	27	29N	9W	C
Pit Dimensions at Start			Excavation Dimensions at End				
0x0x0 Redig			38'x30'x12'				
Excavated Cu. Yds.			Composite Sample # (walls): 9903031345				
663			Composite Sample # (bottom): N/A Water				

PIT READINGS

Feet	PID Reading	Soil Type	Location	Headspace	Depth
5'	0.0 ppm	Sand	North Wall	1.6	9'
~~10~~ 9'	185 ppm		East Wall	4.3	9'
15'			South Wall	0.6	9'
20'			West Wall	1.6	9'
25'			Pit Bottom	N/A Water	12'
30'					

Land Farm Location: On Site

Field Notes: 3/2/99 Dug test hole to 10' on Northeast corner or South East corner of old excavation. We hit about 1' of contamination on top of the water. Sandy soil that slutted very bad. Started the excavation around mw2 20' in all directions. Dug down to 5' with the front bucket on the back hoe. Pit size 38'x38'x5'. Dug down with backhoe on the north wall to 10' hit some cont. and water. Dug down to 12' getting all cont. going North and East and West. Pit size 38'x13'x12' Dug on East wall moving South 10'x10'x10' S/D for the night. 415 cu. yds.
3/3/99 - S/U digging back to the west on the South end a 10' strip. Cont. still running to the South. Clean going East & West. Move South 10' more. Cont. ends at 7' Dug a 7' Strip East to West. Sampled and ran head space readings on all 4 walls. 1400 Hrs. S/U up back filling with stock piled clean over burden.

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *12-Mar-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124
Work Order:	9903015	**Client Sample ID:**	9903031345; 4pt. Comp Walls
Lab ID:	9903015-01A **Matrix:** SOIL	**Collection Date:**	3/3/99 1:45:00 PM
Project:	Florance 124	**COC Record:**	7477

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **HR**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	3/10/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

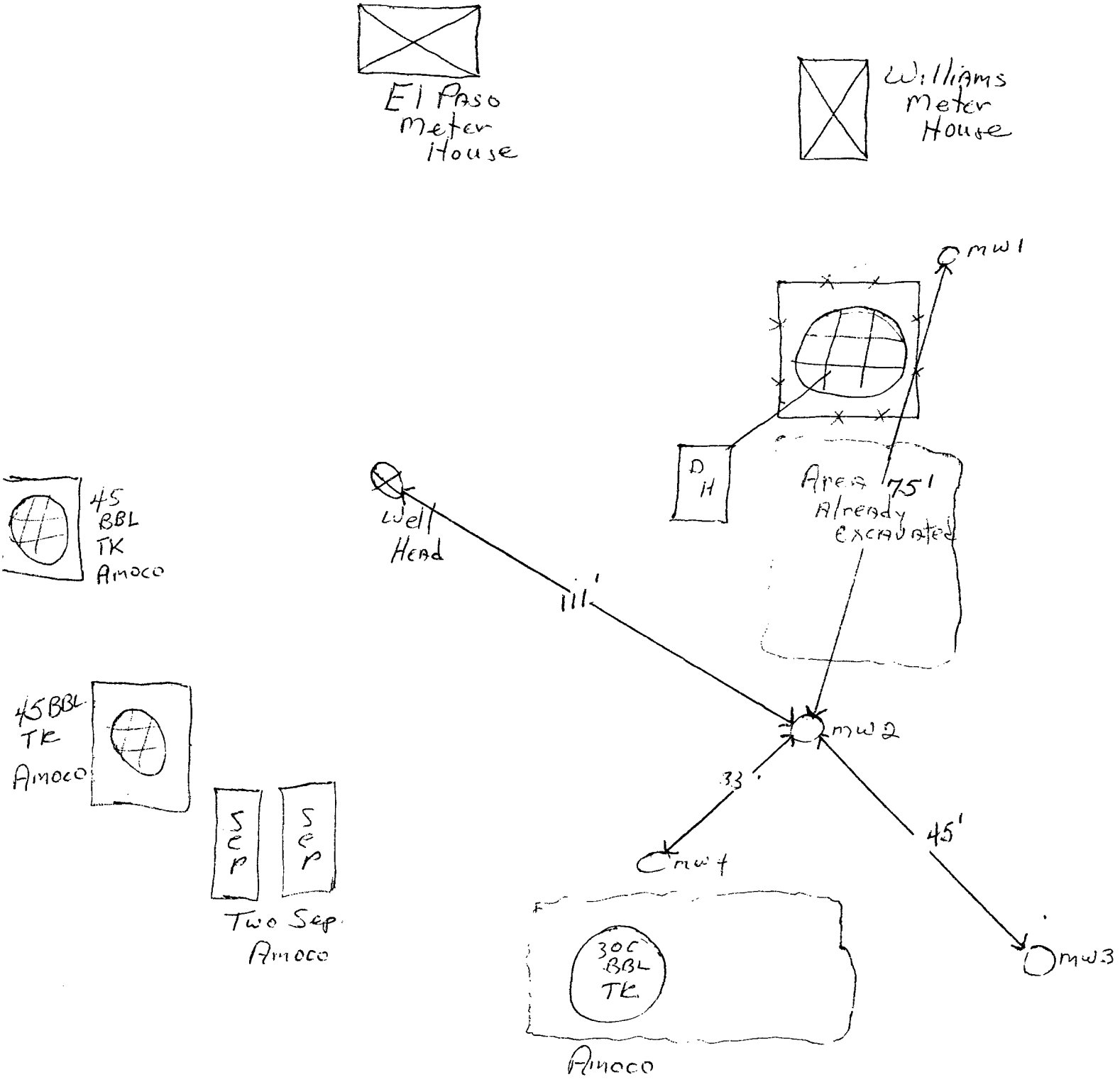
E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

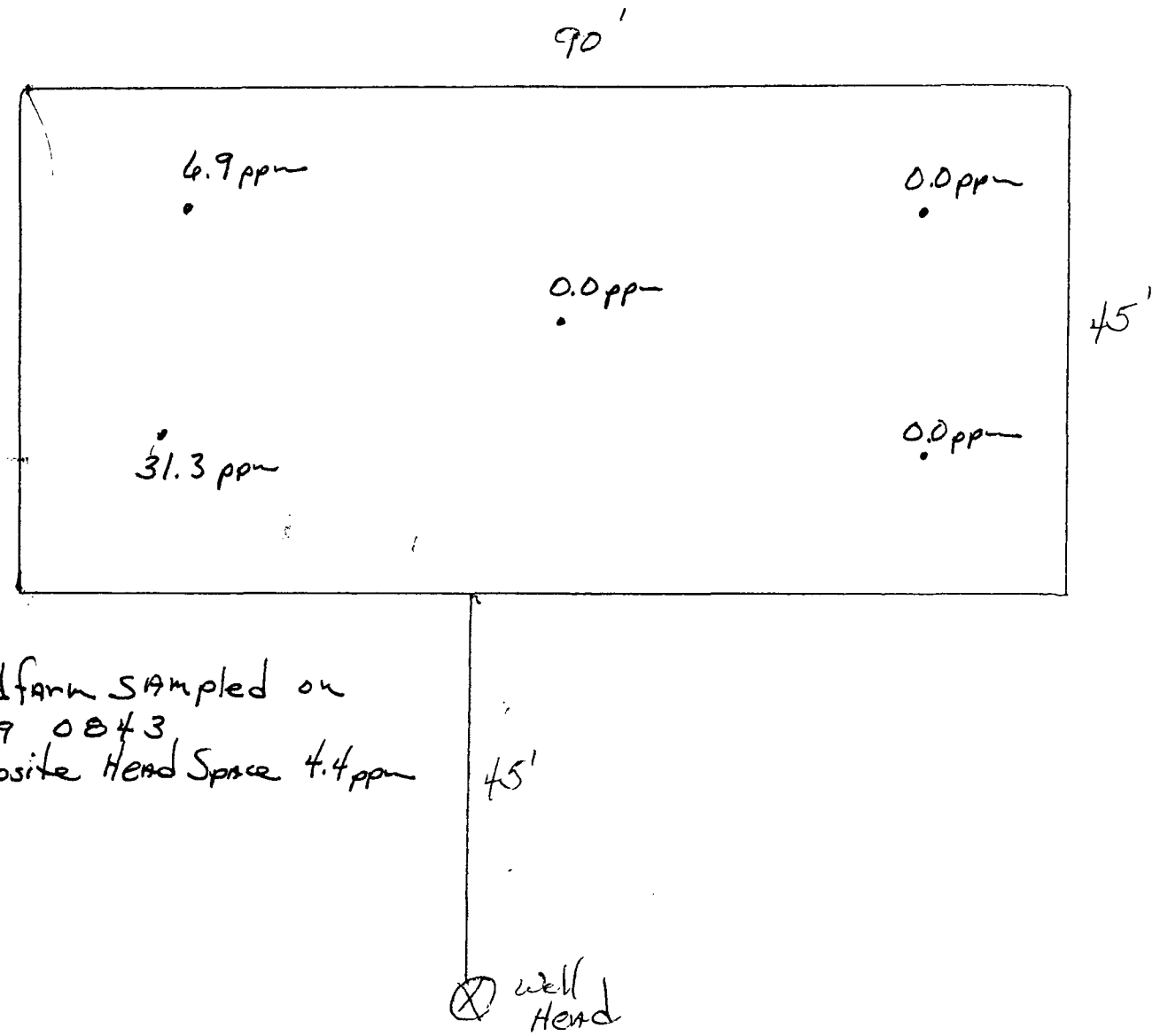
Florance 124
Sec 27 T29N R9W Unit C
Amoco

Site Map



Florance 124
Sec. 27 T29N R9W Unit
Amoco

Landfarm Drawing



Landfarm Sampled on
3/30/99 0843
Composite Head Space 4.4 ppm

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *06-Apr-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124 LF
Work Order:	9903062	**Client Sample ID:**	9903300843; 5pt. Comp
Lab ID:	9903062-01A **Matrix:** SOIL	**Collection Date:**	3/30/99 8:43:00 AM
Project:	Florance 124 LF	**COC Record:**	7374

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **DC**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	4/1/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

PNM Gas Services

Excavation Field Notes
Jicarilla

Date: 1-4-00		Name: Roy Burnham				
Well Name		**Operator**	**S**	**T**	**R**	**UI**
Florance 124		Amoco	27	29N	9W	
Pit Dimensions at Start		**Excavation Dimensions at End**				
18'X18'X5'		86.5'X82.5'X16'				
Excavated Cu. Yds.		**Composite Sample # (walls):** North wall – 000104 1420 East wall 000106 0850 West wall 000106 0945				
Clean 4228.888 Contaminated 1321.527		**Composite Sample # (bottom):** South wall 000111 1022				

PIT READINGS

Feet	Reading	Soil Type	Location	~~Headspace~~	Depth
5'	clean	sand	North Wall	Pid - 0.3ppm	16'
10'	clean	Sand	South Wall		
15	450 to 600	Black/sand	East Wall	Pid 1.9ppm	16'
~~20~~16	0.3pid		West Wall	Pid 3.9 ppm	16'
25'			Pit Bottom		
30'					

Land Farm Location: Florance 124

Field Notes: 1-4-00 Removed fence, and equipment s/u digging on North wall. Found contamination at 12' 2' to 3' band, dug to within 4' of meterhouse before North Wall cleaned up. Working on Northwest corner 3' Band of contamination 980ppm on Pid Northwest corner clean. Working on East wall and mooing South. Sampled North wall at 16' depth Pid 0.3ppm. Backfilling some on North wall. Water Coming in at 12' to 14' on South wall Lots of contamination found under D.H. 2' of overburden 12' to 14' of Black Contamitated soil 1840ppm s/o for the night.

1-5-00 Digging on Southwest corner lots of contamination moved over to Southeast corner to define Contamination Dug all day on South wall hit rock at 17' on South west wall East and west wall cleaning up s/o for the night

1-6-00 Sampled EAST and west wall at 16'. worked most of the day. moved stage pile so we can dig on South wall monday. s/o for the weekend

1-10-00 - Working on Southwest corner and moving stage Pile. Grey soil 1.9 ppm Black Soil 582 ppm digging toward the South. North, EAST, West wall samples taken to lab TPH and BTEX →

PNM
Environmental Services

Excavation Field Notes
Jicarilla

Date: 1-11-00	Name: Roy Burnham
Well Name: Florance 124	Operator: Amoco

Dug all DAY on South wall. Contamination Band dropping from 12' to 2'→3' S/D for the night
1-11-00 S/u digging on South wall hauling contamination to Florance 27. Clipped monitor well #1 welt is ok, Dug out monitor well #2 contamination going away. Black Band around monitor well #2 616ppm on pid about 1' Thick. Sampled south wall at 1022 hrs. S/D Diggins. 4.0 ppm ond Pid
1-12-00 Hauling contaminated soil to Florance 86
1300hrs S/u backfilling S/D AND fenced PIT
1-13-00 S/u back filling S/D AND fenced PIT
1-17-00 BACK filling 1530hrs PIT BACKed filed
1-18-00 installed monitor well # 5 and # 6.

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124
Work Order:	0001007	**Client Sample ID:**	0001041420; 16ft N. Wall
Lab ID:	0001007-01A **Matrix:** SOIL	**Collection Date:**	1/4/2000 2:20:00 PM
Project:	Florance 124	**COC Record:**	7831

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	1/14/2000
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	1		µg/Kg	1	1/13/2000
Toluene	ND	2		µg/Kg	1	1/13/2000
Ethylbenzene	ND	1		µg/Kg	1	1/13/2000
m,p-Xylene	ND	2		µg/Kg	1	1/13/2000
o-Xylene	ND	1		µg/Kg	1	1/13/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124
Work Order:	0001007	**Client Sample ID:**	0001060851; 16ft E. Wall
Lab ID:	0001007-02A **Matrix:** SOIL	**Collection Date:**	1/6/2000 8:51:00 AM
Project:	Florance 124	**COC Record:**	7831

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	1/14/2000
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	1		µg/Kg	1	1/13/2000
Toluene	ND	2		µg/Kg	1	1/13/2000
Ethylbenzene	ND	1		µg/Kg	1	1/13/2000
m,p-Xylene	ND	2		µg/Kg	1	1/13/2000
o-Xylene	ND	1		µg/Kg	1	1/13/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124
Work Order:	0001007	**Client Sample ID:**	0001060954; 16ft W. Wall
Lab ID:	0001007-03A **Matrix:** SOIL	**Collection Date:**	1/6/2000 9:54:00 AM
Project:	Florance 124	**COC Record:**	7831

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	1/17/2000
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	1		µg/Kg	1	1/13/2000
Toluene	ND	2		µg/Kg	1	1/13/2000
Ethylbenzene	ND	1		µg/Kg	1	1/13/2000
m,p-Xylene	ND	2		µg/Kg	1	1/13/2000
o-Xylene	ND	1		µg/Kg	1	1/13/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124
Work Order:	0001009	**Client Sample ID:**	0001111022; S. Wall @ 16ft
Lab ID:	0001009-01A **Matrix:** SOIL	**Collection Date:**	1/11/2000 10:22:00 AM
Project:	Florance 124	**COC Record:**	7830

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	1/17/2000
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	1		µg/Kg	1	1/13/2000
Toluene	ND	2		µg/Kg	1	1/13/2000
Ethylbenzene	ND	1		µg/Kg	1	1/13/2000
m,p-Xylene	ND	2		µg/Kg	1	1/13/2000
o-Xylene	ND	1		µg/Kg	1	1/13/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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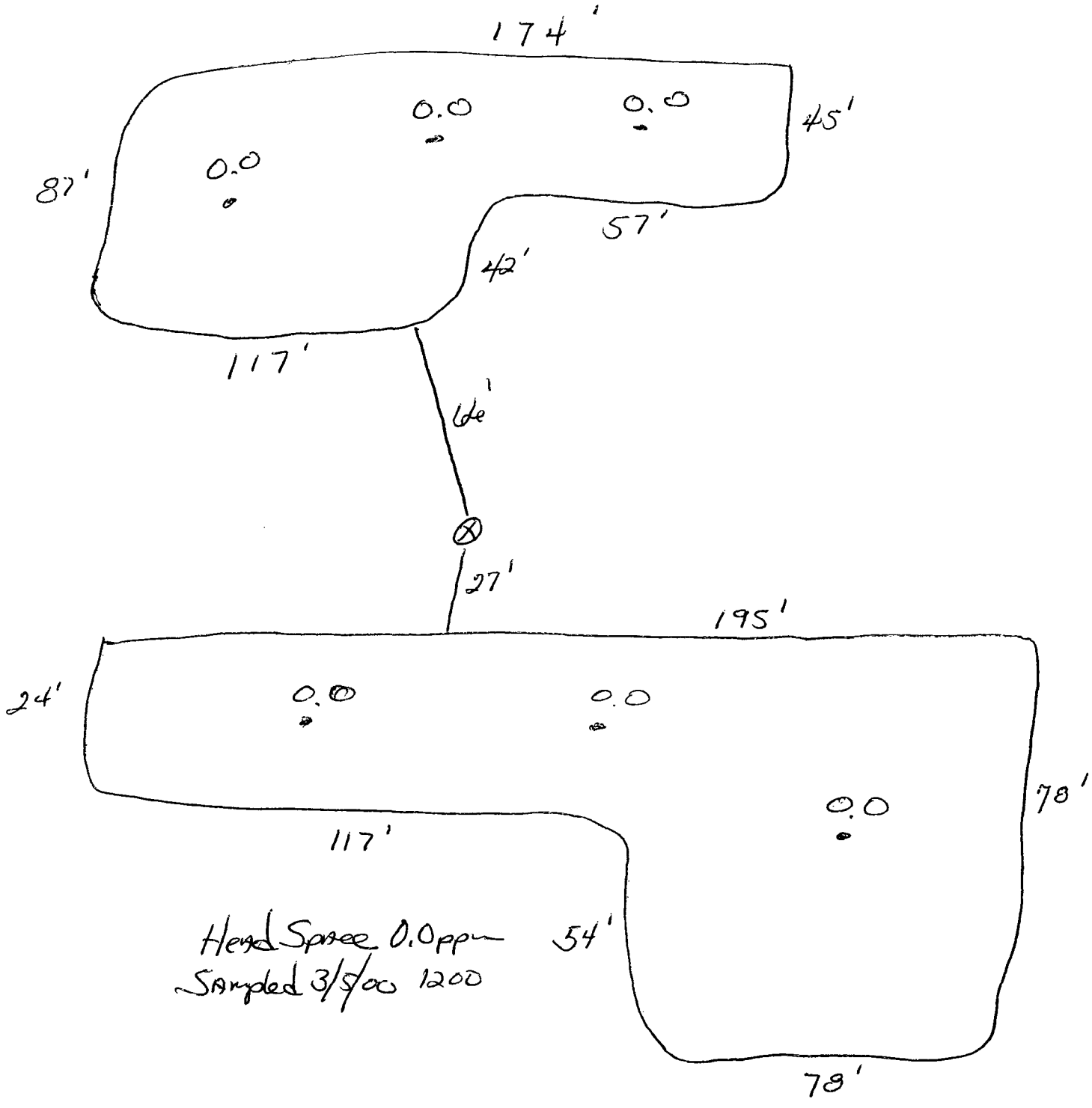
Florance 124
Sec. 27 T29N R9W Unit C
Amoco

Landfarm #1



Head Space 0.0 ppm
Sampled 3/5/00 1200

Landfarm located on Florance 27 location
Sec. 26 T29N R9W Unit L
Amoco

N
↑ Not to scale

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *14-Mar-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124 LF #1
Work Order:	0003007	**Client Sample ID:**	0003051200; 6pt Comp
Lab ID:	0003007-01A **Matrix:** SOIL	**Collection Date:**	3/5/2000 12:00:00 PM
Project:	Florance 124 Landfarms	**COC Record:**	8502

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	3/9/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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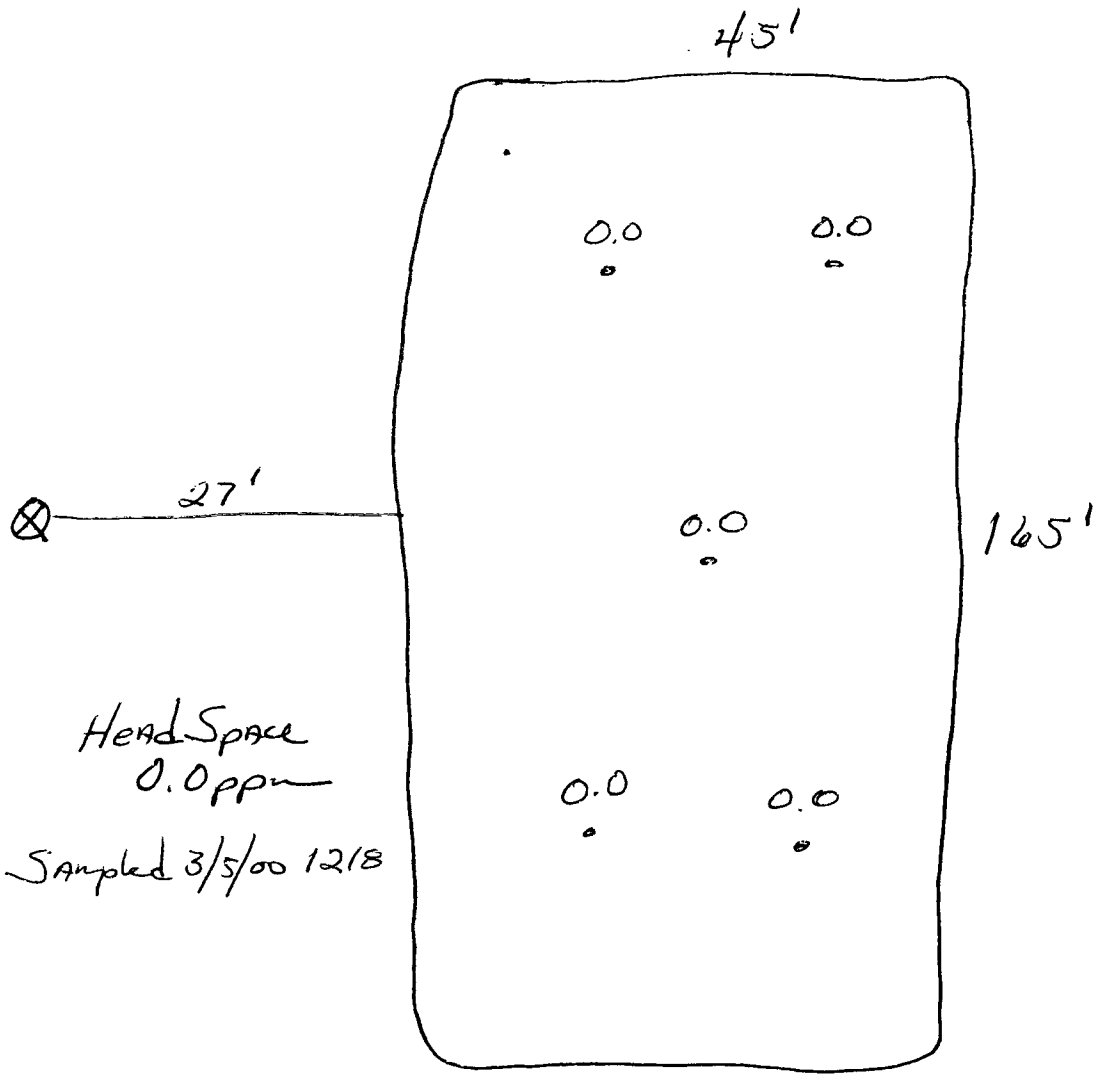
...nce 124
Sec. 27 T29N R9W Unit C
Amoco

Landfarm #2



Landfarm located on Florance 86 location
Sec. 26 T29N R9W Unit D
Amoco

N
↑
Not to scale

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *14-Mar-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124 LF#2
Work Order:	0003007	**Client Sample ID:**	0003051218; 5pt Comp
Lab ID:	0003007-02A **Matrix:** SOIL	**Collection Date:**	3/5/2000 12:18:00 PM
Project:	Florance 124 Landfarms	**COC Record:**	8502

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	3/9/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr. - Surrogate

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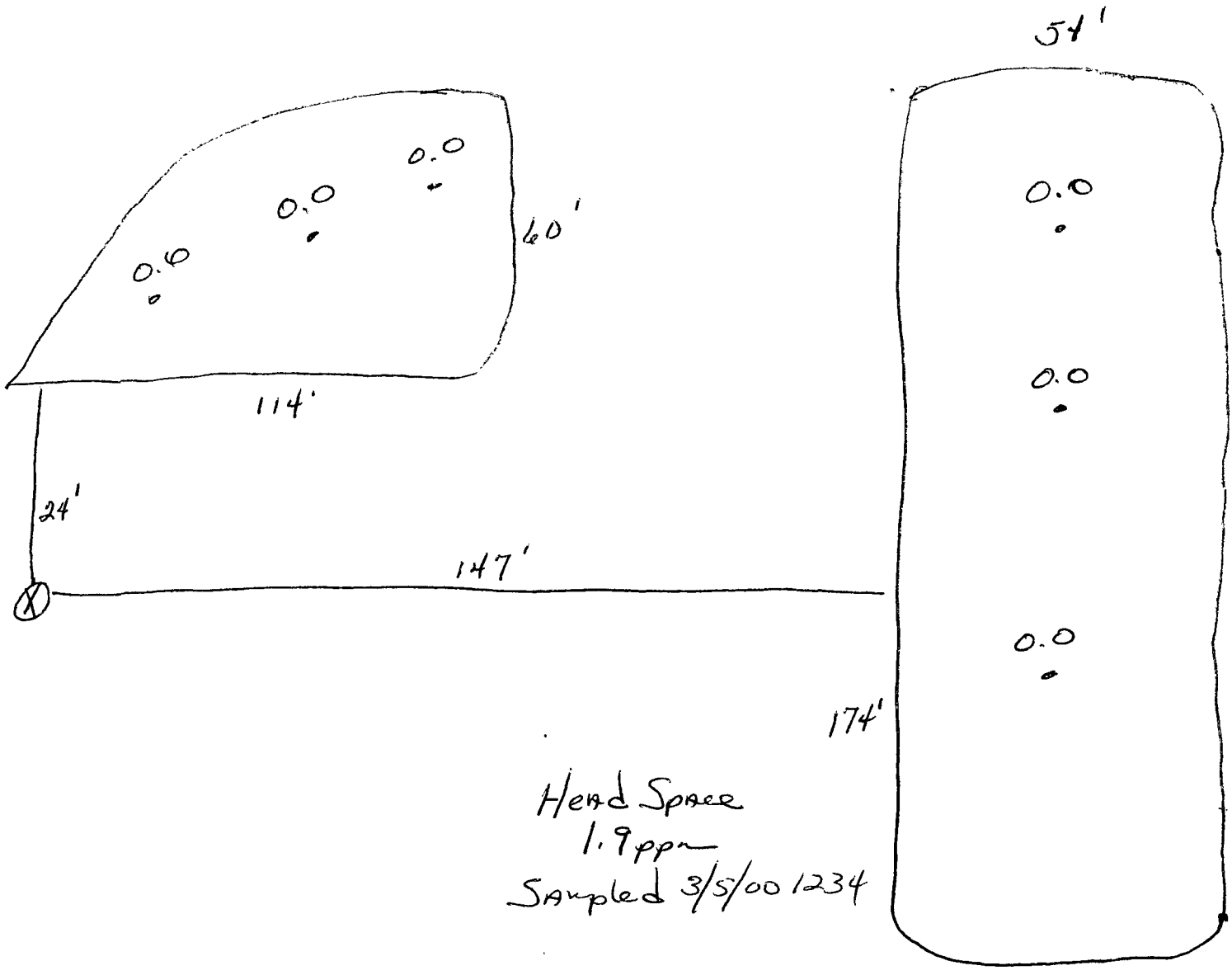
Florance 124
Sec. 27 T29N R9W Unit
Amoco

Landfarm #3



Landfarm located on Florance 124 location

N
↑
Not to scale

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *14-Mar-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Florance 124 LF #3
Work Order:	0003007	**Client Sample ID:**	0003051234; 6pt Comp
Lab ID:	0003007-03A **Matrix:** SOIL	**Collection Date:**	3/5/2000 12:34:00 PM
Project:	Florance 124 Landfarms	**COC Record:**	8502

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	3/9/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr. - Surrogate

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EXHIBIT B

HYDROGRAPH AND POTENTIOMETRIC SURFACE MAP

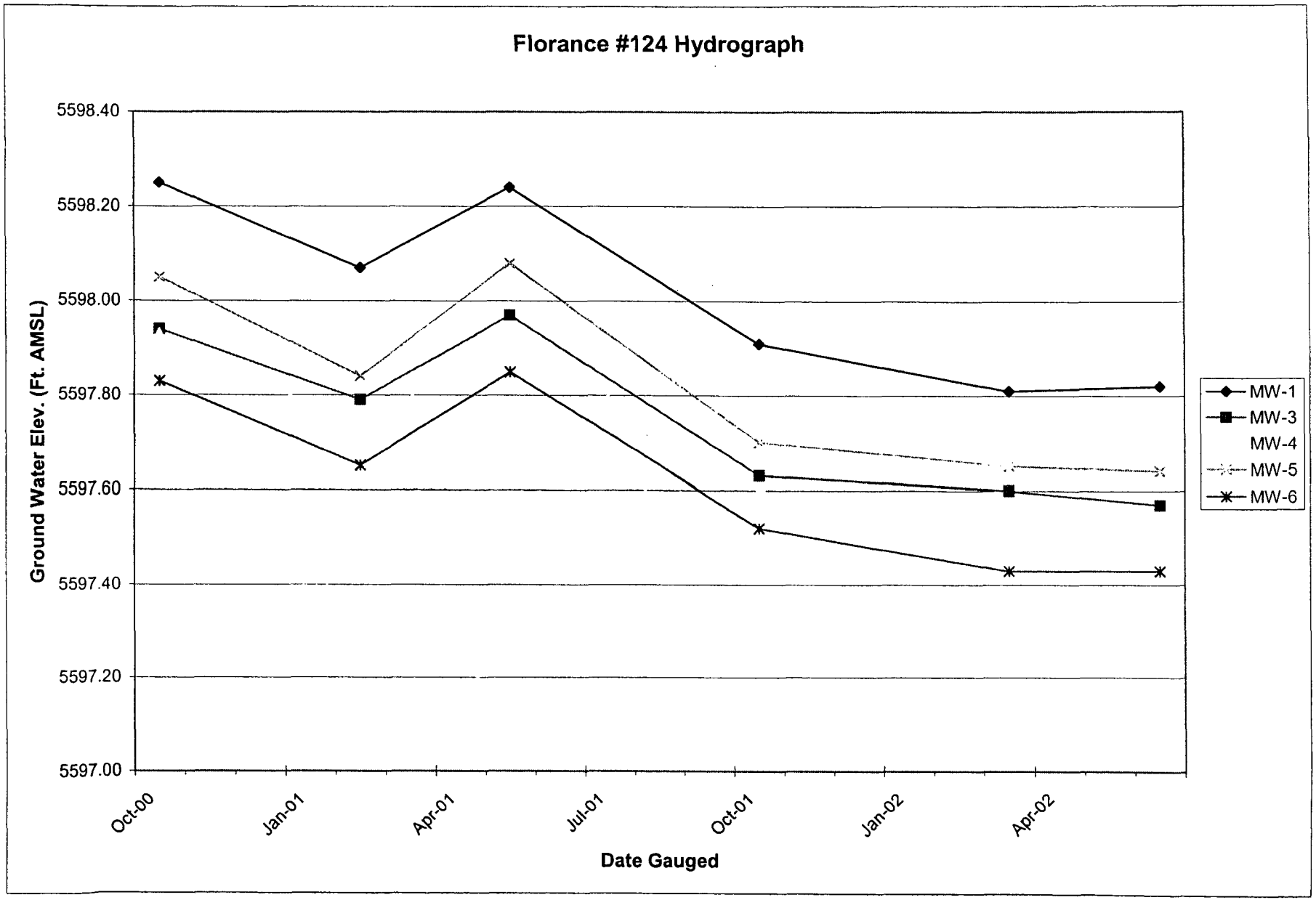
Florance #124 Hydrograph
Ground Water Elev. (Ft. AMSL)
5598.40
5598.20
5598.00
5597.80
5597.60
5597.40
5597.20
5597.00
Oct-00
Jan-01
Apr-01
Jul-01
Oct-01
Jan-02
Apr-02
Date Gauged
MW-1
MW-3
MW-4
MW-5
MW-6

Figure 2. Florance 124 Groundwater Contour Map (December 1996)

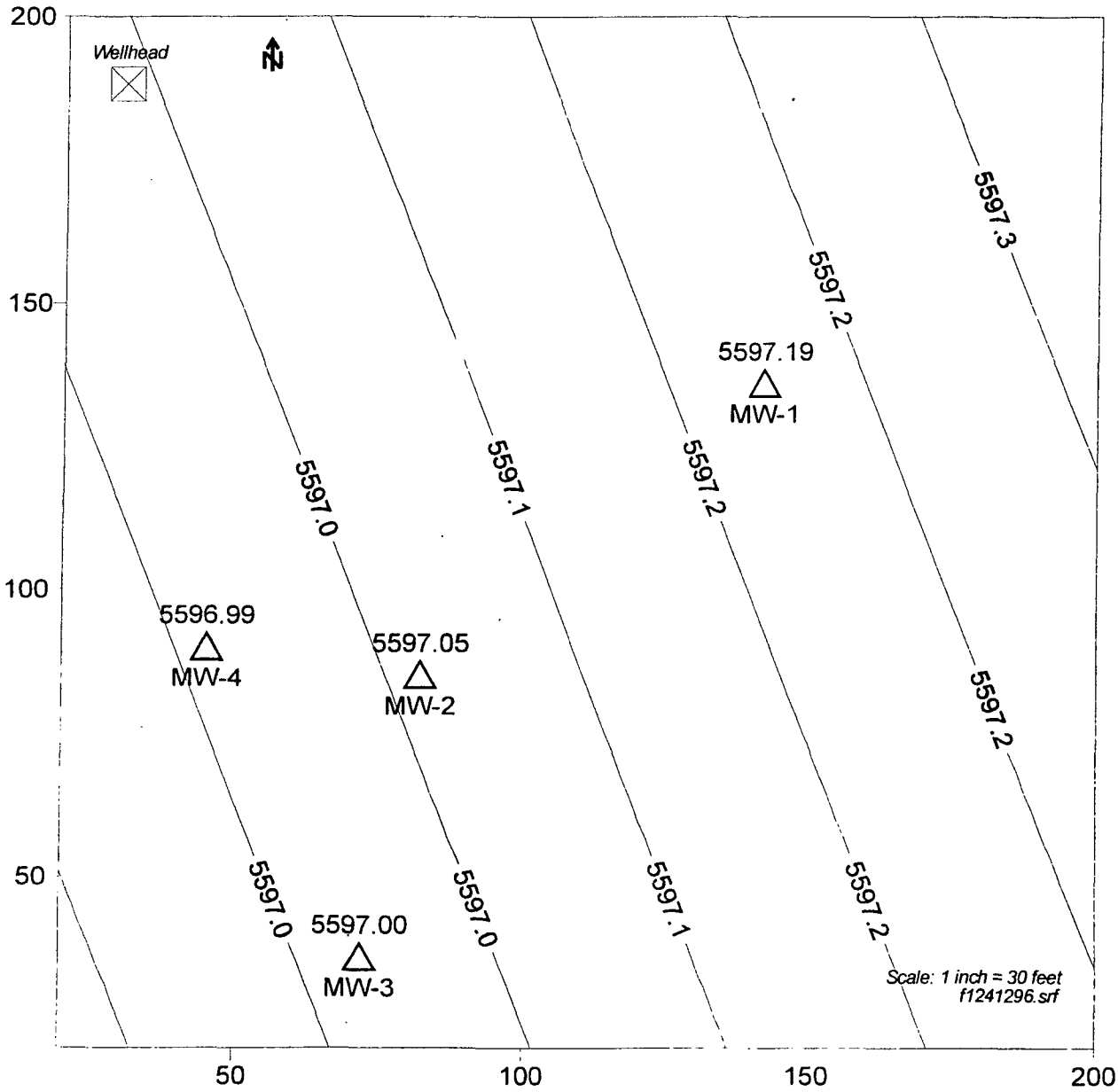

TABLE 1

SUMMARY OF LABORATORY ANALYTICAL DATA

Analytical Data Summary

Site Name:
Florance 124

Reporting Period:
7/1/96 To 7/1/02

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1						
	9/5/96	9609051100	<0.2	<0.2	<0.2	<0.4
	12/6/96	9612061300	<0.2	<0.2	<0.2	<0.4
	8/20/97	9708201300	<1.0	<1.0	<1.0	<2.0
	11/6/97	9711061330	<0.2	<0.2	<0.2	<0.2
	1/19/98	9801191011	<0.2	0.3	<0.2	<0.4
	6/16/02	143316JUN02	ND	ND	ND	ND
MW-2						
	9/5/96	9609051130	122.4	725.0	26.9	764.8
	12/6/96	9612061330	55.1	172.7	15.7	455.5
	8/20/97	9708201330	26.9	51.8	17.0	142.8
	11/6/97	9711061400	15.5	32.1	8.8	90.5
	1/19/98	9801191031	32.9	45.2	18.1	155.5
	4/28/98	9804281200	20	17	9.6	88
	7/31/98	9807311200	25	14	12	100
	11/4/98	9811041400	<1.0	<1.0	<1.0	<3.0
	1/21/99	9901211530	37	13	14	130
	4/7/99	9904071220	12	39	2.4	44
	7/28/99	9907281253	35	<0.5	3.7	14.8
	10/14/99	9910141025	53	<0.5	3.9	11
MW-3						
	9/5/96	9609051200	<0.2	<0.2	<0.2	<0.4
	12/6/96	9612061400	<0.2	<0.2	<0.2	<0.4
	8/20/97	9708201400	<1.0	<1.0	<1.0	<2.0
	11/6/97	9711061430	<0.2	<0.2	<0.2	<0.4
	1/19/98	9801191046	<0.2	0.2	<0.2	<0.4
	6/16/02	144016JUN02	ND	ND	ND	ND
MW-4						
	9/5/96	9609051230	<0.2	<0.2	<0.2	<0.4
	12/6/96	9612061430	<0.2	<0.2	<0.2	<0.4
	8/20/97	9708201430	<1.0	<1.0	<1.0	<2.0
	11/6/97	9711061500	<0.2	<0.2	<0.2	<0.4
	1/19/98	9801191103	<0.2	0.2	<0.2	<0.4
	6/16/02	144716JUN02	ND	ND	ND	ND

Site Name:
Florance 124

Reporting Period:
7/1/96 To 7/1/02

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-5						
	2/1/00	0002011115	<0.5	<0.5	<0.5	<1.5
	4/26/00	0004261125	<0.5	<0.5	<0.5	<1.5
	10/30/00	152830OCT00	<1	<1	<1	<1
	2/1/01	121401FEB01	<1	<1	<1	<1
	5/1/01	120601MAY01	<1	<1	<1	<1
	10/26/01	130226OCT01	<1.0	<2.0	<2.0	<2.0
	3/22/02	124222MAR02	ND	ND	ND	ND
	6/16/02	150316JUN02	ND	ND	ND	ND
MW-6						
	2/1/00	0002011130	25	<0.5	53	936
	4/26/00	0004261110	12	2.9	25	214
	10/30/00	151030OCT00	1.51	<1	<1	<1
	10/30/00	142230OCT00	<1	<1	<1	<1
	2/1/01	122501FEB01	<1	1.51	<1	2.302
	5/1/01	123201MAY01	<1	<1	<1	1.73
	10/26/01	131026OCT01	<1.0	<2.0	<2.0	<2.0
	3/22/02	125122MAR02	ND	ND	ND	ND
	6/16/02	145416JUN02	ND	ND	ND	ND

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Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

April 09, 2002

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

RE: Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

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Fax: 913.599.1759

SAMPLE SUMMARY

Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6057814-001	605034693	124222MAR02	Water	03/22/02 12:42	03/27/02 09:40
6057814-002	605034727	125122MAR02	Water	03/22/02 12:51	03/27/02 09:40

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SAMPLE ANALYTE COUNT

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Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
6057814-001	605034693	124222MAR02	8020 WPAC	Aromatic Volatile Organics	5
6057814-002	605034727	125122MAR02	8020 WPAC	Aromatic Volatile Organics	5

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MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

Attn: Mr. Jim Struhs
Phone: (505)632-4457

Lab Sample No: 605034693 Project Sample Number: 6057814-001 Date Collected: 03/22/02 12:42
Client Sample ID: 124222MAR02 Matrix: Water Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	03/29/02 23:23	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/29/02 23:23	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/29/02 23:23	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/29/02 23:23	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		03/29/02 23:23	SHF	2164-17-2		

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

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Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

Lab Sample No: 605034727 Project Sample Number: 6057814-002 Date Collected: 03/22/02 12:51
Client Sample ID: 125122MAR02 Matrix: Water Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	03/29/02 23:52	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/29/02 23:52	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/29/02 23:52	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/29/02 23:52	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		03/29/02 23:52	SHF	2164-17-2		

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Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
(S) Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

QC Batch: 119997 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605034693 605034727

METHOD BLANK: 605008549
Associated Lab Samples: 605034693 605034727

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	106		

LABORATORY CONTROL SAMPLE: 605008556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20	21.45	107	84-122	
Ethylbenzene	ug/l	20	21.21	106	85-117	
Toluene	ug/l	20	21.14	106	87-117	
Xylene (Total)	ug/l	60	66.30	111	85-119	
a,a,a-Trifluorotoluene (S)				104	83-115	1

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Lab Project Number: 6057814
Client Project ID: SJB-GW FLR124

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
RPD Relative Percent Difference
(S) Surrogate
[1] Insufficient sample volume received for the MS/MSD. Acceptable recovery of the LCS indicates the analytical system is in control.

REPORT OF LABORATORY ANALYSIS

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June 26, 2002

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

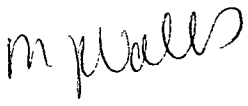
RE: Lab Project Number: 6059948
Client Project ID: FLR124

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,



Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
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9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

SAMPLE SUMMARY

Lab Project Number: 6059948
Client Project ID: FLR124

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6059948-001	605212588	143316JUN02	Water	06/16/02 14:33	06/20/02 09:00
6059948-002	605212596	144016JUN02	Water	06/16/02 14:40	06/20/02 09:00
6059948-003	605212604	144716JUN02	Water	06/16/02 14:47	06/20/02 09:00
6059948-004	605212612	150316JUN02	Water	06/16/02 15:03	06/20/02 09:00
6059948-005	605212620	145416JUN02	Water	06/16/02 14:54	06/20/02 09:00

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SAMPLE ANALYTE COUNT

Lab Project Number: 6059948
Client Project ID: FLR124

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
6059948-001	605212588	143316JUN02	8020 WPAC	Aromatic Volatile Organics	5
6059948-002	605212596	144016JUN02	8020 WPAC	Aromatic Volatile Organics	5
6059948-003	605212604	144716JUN02	8020 WPAC	Aromatic Volatile Organics	5
6059948-004	605212612	150316JUN02	8020 WPAC	Aromatic Volatile Organics	5
6059948-005	605212620	145416JUN02	8020 WPAC	Aromatic Volatile Organics	5

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Lab Project Number: 6059948
Client Project ID: FLR124

Lab Sample No: 605212588 Project Sample Number: 6059948-001 Date Collected: 06/16/02 14:33
Client Sample ID: 143316JUN02 Matrix: Water Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 19:37	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 19:37	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 19:37	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 19:37	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		06/21/02 19:37	JPR	98-08-8		

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Lab Project Number: 6059948
Client Project ID: FLR124

Lab Sample No: 605212596 Project Sample Number: 6059948-002 Date Collected: 06/16/02 14:40
Client Sample ID: 144016JUN02 Matrix: Water Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 20:39	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 20:39	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 20:39	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 20:39	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		06/21/02 20:39	JPR	98-08-8		

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Lab Project Number: 6059948
Client Project ID: FLR124

Lab Sample No: 605212604 Project Sample Number: 6059948-003 Date Collected: 06/16/02 14:47
Client Sample ID: 144716JUN02 Matrix: Water Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 21:11	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 21:11	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 21:11	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 21:11	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		06/21/02 21:11	JPR	98-08-8		

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Lab Project Number: 6059948
Client Project ID: FLR124

Lab Sample No: 605212612 Project Sample Number: 6059948-004 Date Collected: 06/16/02 15:03
Client Sample ID: 150316JUN02 Matrix: Water Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 21:42	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 21:42	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 21:42	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 21:42	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		06/21/02 21:42	JPR	98-08-8		

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Lab Project Number: 6059948
Client Project ID: FLR124

Lab Sample No: 605212620 Project Sample Number: 6059948-005 Date Collected: 06/16/02 14:54
Client Sample ID: 145416JUN02 Matrix: Water Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/24/02 13:33	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/24/02 13:33	JPR	100-41-4		
Toluene	ND	ug/l	2.0	06/24/02 13:33	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/24/02 13:33	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		06/24/02 13:33	JPR	98-08-8		

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Lab Project Number: 6059948
Client Project ID: FLR124

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 6059948
Client Project ID: FLR124

QC Batch: 124770 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605212588 605212596 605212604 605212612 605212620

METHOD BLANK: 605214832
Associated Lab Samples: 605212588 605212596 605212604 605212612 605212620

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	101		

LABORATORY CONTROL SAMPLE: 605214840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.49	102	84-122	
Ethylbenzene	ug/l	20.00	20.37	102	85-117	
Toluene	ug/l	20.00	19.96	100	87-117	
Xylene (Total)	ug/l	60.00	61.70	103	85-119	
a,a,a-Trifluorotoluene (S)				99	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605217454 605217462

Parameter	Units	605212554 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0.5846	20.00	21.03	20.26	102	98	82-123	4	10	
Ethylbenzene	ug/l	0	20.00	20.48	19.62	102	98	84-118	4	10	
Toluene	ug/l	0.6244	20.00	20.22	19.35	98	94	82-117	4	10	
Xylene (Total)	ug/l	1.350	60.00	61.60	58.65	100	96	84-121	5	13	
a,a,a-Trifluorotoluene (S)						101	101	83-115			

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Lab Project Number: 6059948
Client Project ID: FLR124

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate