

District I
P.O. 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

2040 South Pacheco Street
Santa Fe, New Mexico 87505

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

DEPUTY OIL & GAS INSPECTOR

FEB 08 1999

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
NOV 12 1998
OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (Dugan Production) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Austral Starr #1
Location: Unit P Sec 6 T 26 N R 8 W County San Juan
Pit Type: Separator ☐ Dehydrator ☐ Other Drip Riser
Land Type: BLM ☐ State ☐ Fee ☐ Other Navajo

Pit Location: Pit dimensions: length 20 ' width 20 ' depth 3 '
(Attach diagram) Reference: wellhead ☒ other _____
Footage from reference: 70'
Direction from reference: 80 Degrees ☒ East North ☐
of ☐ West South ☒

Depth to Ground Water: Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

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

Wellhead Protection Area: Yes (20 points)
No (0 points) 0

(Less than 200 feet from a private
domestic water source, or; less than 1,000
feet from all other water sources)

Distance to Surface Water: Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) 0

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

RANKING SCORE (TOTAL POINTS): 0

Austral Starr #1

Date Remediation Started: 6/25/98

Date Completed: 6/25/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 140

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 140

Other _____

Remediation Location: Onsite ☒

Offsite _____

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

Backfill Material Location: _____

General Description of Remedial Action:

RECEIVED
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OIL CON. DIV.

Excavated contaminated soil to a pit size of 23' X 15' X 11' and landfarmed soil onsite with ~~landfarmed~~ area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Ground Water Encountered: No ☒ Yes ☐ Depth _____

Final Pit Closure Sampling:

Sample Location Bottom of excavation.

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

Sample depth 11'

Sample date 6/25/98 Sample time 8:00:00 AM

Sample Results

Benzene (ppm) < 0.0010

Total BTEX (ppm) < 0.0070

Field headspace (ppm) _____

TPH (ppm) 27.00 Method 8015A

Vertical Extent (ft) _____ Risk Analysis form attached Yes ☐ No ☒

Ground Water Sample: Yes ☐ No ☒ (If yes, see attached Groundwater Site Summary Report)

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

DATE October 29, 1998

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

SIGNATURE

Maureen Gannon

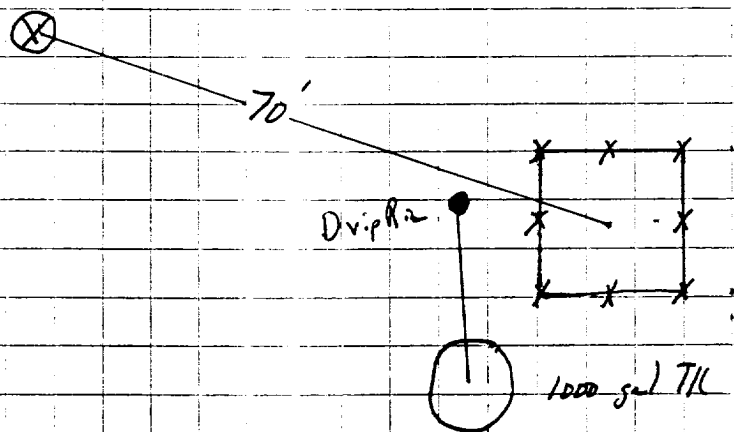
Austral Starr #1

6/25/98

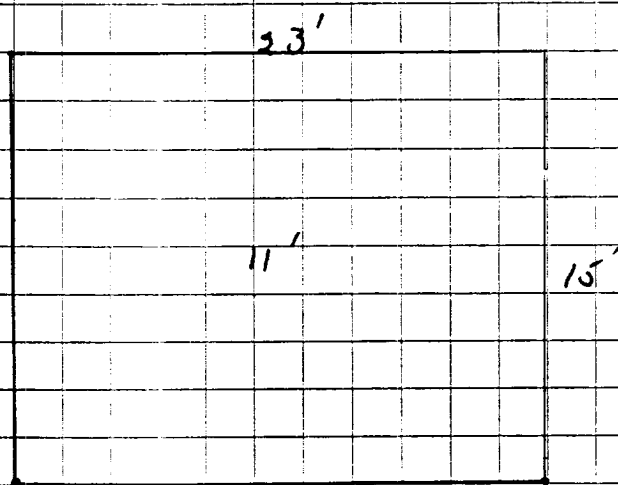
Oxygen Production

Sec 6, 26N, 8W, P

start of excavation



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 07-Jul-98

CLIENT: PNM - Public Service Company of NM

Project: Austral Starr #1

Lab Order: 9806103

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Austral Starr #1
Work Order:	9806103	Client Sample ID:	9806250800; Bottom @ 11ft.
Lab ID:	9806103-01A	Matrix:	SOIL
Project:	Austral Starr #1	Collection Date:	6/25/98 8:00:00 AM
		COC Record:	7243

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
T/R Hydrocarbons: C10-C28	27	25		mg/Kg	1	7/2/98
BTEX						
Benzene	ND	1		µg/Kg	1	7/1/98
Toluene	ND	2		µg/Kg	1	7/1/98
Ethylbenzene	ND	1		µg/Kg	1	7/1/98
m,p-Xylene	ND	2		µg/Kg	1	7/1/98
o-Xylene	ND	1		µg/Kg	1	7/1/98

7
0.007 ppm

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Austral Starr #1
Work Order:	9806103	Client Sample ID:	9806250810; Walls @ 8ft.
Lab ID:	9806103-02A	Matrix:	SOIL
Project:	Austral Starr #1	Collection Date:	6/25/98 8:10:00 AM
		COC Record:	7243

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/7/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	7/1/98
Toluene	ND	2		µg/Kg	1	7/1/98
Ethylbenzene	ND	1		µg/Kg	1	7/1/98
m,p-Xylene	ND	2		µg/Kg	1	7/1/98
o-Xylene	ND	1		µg/Kg	1	7/1/98

7
000 ppm

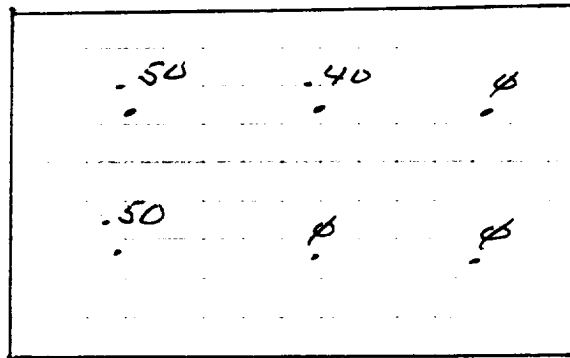
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1 of 1

Austral Starr #1
Dugan
Sec. 6, 26N, 8W, P

7/20/98

Land farm: On location



⊗

140 yards

2"-12" depth

soil vapor head space = 6.0 ppm

980720/300

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 28-Jul-98

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9807058

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Austral Starr #1 LF
Work Order:	9807058	Client Sample ID:	9807201300; 6pt. Comp.
Lab ID:	9807058-09A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	7/20/98 1:00:00 PM
		COC Record:	7389

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/24/98

Qualifiers:

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

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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

ANALYST: JEFFREY A. HARRIS