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REPORTS

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P. 0. BOX 1492 EL PASO, IEXAS 79978 11 10 00 PHONE: 915-541-2600

October 28, 1992

New Mexico Oil Conservation Division Attention: Mr. Bill Olsen State Land Office Building 310 Old Santa Fe Trail Santa Fe, NM 87504

Subject: Closeout of Unused Disposal Pond in Lincoln County, New Mexico

Dear Mr. Olsen:

Per our telephone conversation, please find attached a copy of the analyses run on El Paso Natural Gas Company's unused pond located in Lincoln County, New Mexico.

If you have any questions or additional information is required, please contact me at 915/541-2164.

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Sincerely,

Joe M. Narváez, P.E.

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SAMPLE KEY

Sample <u>Number Description</u>

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i.

- S92-0087 Lincoln Station Soil Sample East Domestic Waste Pond 1430 03/16/92
- S92-0088 Lincoln Station Soil Sample West Domestic Waste Pond 1400 03/16/92



BURLINGTON ENVIRONMENTAL

General Laboratory Report

Lab Number

: 37963

Plant/Generator Name: El Paso Natural Gas; Transmissions Operations LabSample Type: Soils, S92-0088 and S92-0087 (listed on CofC 0089)Date of Receipt: 03/25/92Date of Report: 04/24/92Parameters for Analysis: TCLP Metals, 8240, 8270, 8080, 8150Outside Lab: SoundOutside Lab: Sound

Data:

These soil samples, S92-0088 and S92-0087, were submitted to Sound Analytical for TCLP Metals, 8240, 8270, 8080, and 8150. Copies of these results are attached. Note that sample S92-0087 was erroneously labeled on the chain of custodies as S92-0089.

Comments and Conclusions:

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Yellow-EPNG Lab
Pink-Field Sampler

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Reference Company

Sound Analytical Services, Inc.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS 4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Burlington Environmental Date: April 14, 1992 Seattle Office Report On: Analysis of Soil Lab No.: 23438-4 Page 1 of 4

Sample was extracted using Toxicity Characteristic Leaching Procedure (TCLP) in accordance with EPA SW-846 Method 1311. The TCLP leachate was analyzed in accordance with SW-846 Method 8240 (Volatile Organics).

Compound	Concentration (mg/l)	PQL	Max. Conc. (mg/l)
Vinyl Chloride	ND	0.010	0.2
Chloroform	ND	0.005	6.0
1,2-Dichloroethane	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
Chlorobenzene	ND	0.005	100
1,1-Dichloroethylene	ND	0.005	0.7
Methyl Ethyl Ketone	ND	0.025	200
Tetrachloroethylene	ND	0.005	0.7
Trichloroethylene	ND	0.005	0.5

ND = Not detected.

PQL - Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

Volatile Surrogates

Surrogate	Percent Recovery	Control Limits	
Toluene - D8	101	81 - 117	
Bromofluorobenzene	100	74 - 121	
1,2-Dichloroethane D4	93	70 - 121	

Continued

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with ndustry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

Burlington Environmental - Seattle Office Project: EPNG Page 2 of 4 Lab No. 23438-4 April 14, 1992

Client ID: 37963-1 (S92-0088)

The TCLP leachate was analyzed in accordance with EPA SW-846 Method 8270 (ABN Semivolatiles).

Compound	Concentration (mg/l)	PQL	Max. Conc. (mg/l)
1,4-Dichlorobenzene	ND	0.010	7.5
Hexachloroethane	ND	0.010	3.0
Nitrobenzene	ND	0.010	2.0
Hexachlorobutadiene	ND	0.010	0.5
2,4,6-Trichlorophenol	ND	0.010	2.0
2,4,5-Trichlorophenol	ND	0.010	400
2,4-Dinitrotoluene	ND	0.010	0.13
Hexachlorobenzene	ND	0.010	0.13
Pentachlorophenol	ND	0.052	100
O-Cresol	ND	0.010	200
M & P-Cresol	ND	0.010	200
Pyridine	ND	0.010	5.0

ND = Not Detected

PQL - Practical Quantitation Limit - These are the quantitation limits for this sample. This number is based on sample size, matrix and dilution required.

Semi-Volatile Surrogates

Surrogate Compound	Percent Recovery	Control Water	Limits Soil
Nitrobenzene – d ₅	67	35 - 114	23 - 120
2-Fluorobiphenyl	65	43 - 116	30 - 115
p-Terphenyl-d ₁₄	75	33 - 141	18 - 137
Phenol-d ₆	26	10 - 94	24 - 113
2-Fluorophenol	47	21 - 100	25 - 121
2,4,6-Tribromophenol	82	10 - 123	19 - 122

Continued

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Burlington Environmental - Seattle Office Project: EPNG Page 3 of 4 Lab No. 23438-4 April 14, 1992

Client ID: 37963-1 (S92-0088)

The TCLP leachate was analyzed for metals in accordance with EPA SW-846 Method 6010 (ICP). Mercury was analyzed by cold vapor AA per Method 7470.

<u>Contaminant</u>	<u>Concentration (mg/l)</u>	<pre>Max Conc., (mg/l)</pre>
Arsenic	< 0.1	5.0
Barium	0.7	100.0
Cadmium	< 0.1	1.0
Chromium	< 0.1	5.0
Lead	< 0.1	5.0
Mercury	< 0.002	0.2
Selenium	< 0.1	1.0
Silver	< 0.1	5.0

The TCLP leachate was analyzed for chlorinated herbicides by GCECD/MS per EPA SW-846 Method 8150.

<u>Concentration (mg/l)</u>	<pre>Max Conc., (mg/1)</pre>
< 0.02	10.0
< 0.02	1.0
	<u>Concentration (mg/l)</u> < 0.02 < 0.02

SURROGATE RECOVERY, & 2,4,6 Tribromophenol

49

Continued

Burlington Environmental - Seattle Office Project: EPNG Page 4 of 4 Lab No. 23438-4 April 14, 1992

Client ID: 37963-1 (S92-0088)

The TCLP leachate was analyzed for chlorinated pesticides per EPA SW-846 Method 8080.

<u>Contaminant</u>	nant Concentration (mg/l) ne (technical) < 0.01 < 0.001 < 0.001 lor < 0.001 Lindane) < 0.002 ne < 0.01	<u>Max Conc.</u> (mg/l)
Chlordane (technic	al) < 0.01	0.03
Endrin	< 0.001	0.02
Heptachlor	< 0.001	0.008
y-BHC (Lindane)	< 0.001	0.4
Methoxychlor	< 0.002	10
Toxaphene	< 0.01	0.5

SURROGATE RECOVERY, &	
2,4,5,6-Tetrachloro-m-xylene	95
Decachlorobiphenyl	93

SOUND ANALYTICAL SERVICES

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SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS 4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Burlington Environmental Date: April 14, 1992 Seattle Office

Report On: Analysis of Soil

Lab No.: 23438-5 Page 1 of 4

IDENTIFICATION:

Sample received on 03-26-92 P.O. No. 19737 Project: EPNG Client ID: 37963-2 (S92-0087) ANALYSIS:

Sample was extracted using Toxicity Characteristic Leaching Procedure (TCLP) in accordance with EPA SW-846 Method 1311. The TCLP leachate was analyzed in accordance with SW-846 Method 8240 (Volatile Organics).

Compound	Concentration (mg/l)	PQL	Max. Conc. (mg/l)
Vinyl Chloride	ND	0.010	0.2
Chloroform	ND	0.005	6.0
1,2-Dichloroethane	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
Chlorobenzene	ND	0.005	100
1,1-Dichloroethylene	ND	0.005	0.7
Methyl Ethyl Ketone	ND	0.025	200
Tetrachloroethylene	ND	0.005	0.7
Trichloroethylene	ND	0.005	0.5

ND = Not detected.

PQL - Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

Volatile Surrogates

Surrogate	Percent Recovery	Control Limits
Toluene - D8 Bromofluorobenzene 1,2-Dichloroethane D4	94 109 83	$81 - 117 \\ 74 - 121 \\ 70 - 121$

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Burlington Environmental - Seattle Office Project: EPNG Page 2 of 4 Lab No. 23438-5 April 14, 1992

Client ID: 37963-2 (S92-0087)

The TCLP leachate was analyzed in accordance with EPA SW-846 Method 8270 (ABN Semivolatiles).

Compound	Concentration (mg/l)	PQL	Max. Conc. (mg/l)
1,4-Dichlorobenzene	ND	0.011	7.5
Hexachloroethane	ND	0.011	3.0
Nitrobenzene	ND	0.011	2.0
Hexachlorobutadiene	ND	0.011	0.5
2,4,6-Trichlorophenol	ND	0.011	2.0
2,4,5-Trichlorophenol	ND	0.011	400
2,4-Dinitrotoluene	ND	0.011	0.13
Hexachlorobenzene	ND	0.011	0.13
Pentachlorophenol	ND	0.054	100
O-Cresol	ND	0.011	200
M & P-Cresol	ND	0.011	200
Pyridine	ND	0.011	5.0

ND = Not Detected

PQL - Practical Quantitation Limit - These are the quantitation limits for this sample. This number is based on sample size, matrix and dilution required.

Semi-Volatile Surrogates

Surrogate	Percent	Control	Limits
Compound	Recovery	Water	Soil
Nitrobenzene - d ₅ 2-Fluorobiphenyl p-Terphenyl-d ₁₄ Phenol-d ₆ 2-Fluorophenol 2,4,6-Tribromophenol	64 58 73 28 49 78	35 - 114 43 - 116 33 - 141 10 - 94 21 - 100 10 - 123	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$

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Burlington Environmental - Seattle Office Project: EPNG Page 3 of 4 Lab No. 23438-5 April 14, 1992

Client ID: 37963-2 (S92-0087)

The TCLP leachate was analyzed for metals in accordance with EPA SW-846 Method 6010 (ICP). Mercury was analyzed by cold vapor AA per Method 7470.

<u>Contaminant</u>	<u>Concentration (mg/l)</u>	<pre>Max Conc., (mg/l)</pre>
Arsenic	< 0.1	5.0
Barium	2.6	100.0
Cadmium	< 0.1	1.0
Chromium	< 0.1	5.0
Lead	< 0.1	5.0
Mercury	< 0.002	0.2
Selenium	< 0.1	1.0
Silver	< 0.1	5.0

The TCLP leachate was analyzed for chlorinated herbicides by GCECD/MS per EPA SW-846 Method 8150.

<u>Contaminant</u>	<u>Concentration (mg/l)</u>	<pre>Max Conc., (mg/1)</pre>
2,4-D	< 0.02	10.0
2,4,5-TP	< 0.02	1.0
2,4-D 2,4,5-TP	< 0.02 < 0.02	10.0 1.0

SURROGATE RECOVERY, & 2,4,6 Tribromophenol

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Continued

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Burlington Environmental - Seattle Office Project: EPNG Page 4 of 4 Lab No. 23438-5 April 14, 1992

Client ID: 37963-2 (S92-0087)

The TCLP leachate was analyzed for chlorinated pesticides per EPA SW-846 Method 8080.

<u>Contaminant</u>	<u>Concentration (mg/l)</u>	<u>Max Conc.</u> (mg/l)
Chlordane (technica	(1) < 0.01	0.03
Endrin	< 0.001	0.02
Heptachlor	< 0.001	0.008
y-BHC (Lindane)	< 0.001	0.4
Methoxychlor	< 0.002	10
Toxaphene	< 0.01	0.5

SURROGATE RECOVERY, &	
2,4,5,6-Tetrachloro-m-xylene	98
Decachlorobiphenyl	92

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SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

ANALYTICAL NARRATIVE

Client:	Burlington Environmental - Seattle Office	Date: April 1	4, 1992
Project:	EPNG	Lab No.: 2343	8

Delivered by: SAS

Date Sampled: 2-21-92, 3-16-92, and 3-20-92

Condition of Samples upon Receipt:

Samples were received cool and in good condition. Chain-of-custody was in order.

EXTRACTION AND ANALYSIS DATES

Samples 23438-2 and -3 were analyzed for diesel range hydrocarbons per WA State DOE method WTPH-D. Samples were extracted on 3-31-92. The extracts were analyzed on 4-2-92.

Sample 23438-1 was analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver by ICP in accordance with EPA SW-846 Method 6010. Samples were digested on 3-26-92 and analyzed on 3-31-92. Mercury was analyzed by cold vapor AA per SW-846 Method 7471 on 3-30-92.

Samples 23438-1, -4 and -5 were extracted using Toxicity Characteristic Leaching Procedure (TCLP) in accordance with EPA SW-846 Method 1311 on 3-31-92.

The TCLP leachates were analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver by ICP in accordance with Method 6010 on 4-3-92. Mercury was analyzed by cold vapor AA per Method 7470.

23438-4 and -5 TCLP leachates were analyzed for chlorinated pesticides per EPA SW-846 Method 8080 on 4-11-92.

23438-4 and -5 TCLP leachates were analyzed for chlorinated herbicides by GCECD/MS per EPA SW-846 Method 8150 on 4-11-92.

23438-1, -4 and -5 TCLP leachates were analyzed for semi-volatile organics by GC/MS in accordance with EPA SW-846 Method 8270 on 4-3-92 and 4-6-92.

Samples 23438-1, -4 and -5 were extracted in zero headspace extractors using Toxicity Characteristic Leaching Procedure (TCLP) in accordance with EPA SW-846 Method 1311. The TCLP leachates were analyzed for volatile organics by GC/MS in accordance with EPA SW-846 Method 8240 on 4-4-92.

All Quality Control was within acceptable limits.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

ANALYTICAL NARRATIVE

Client:	Burlington Environmental - Seattle Office	Date: April 14, 1992
Project:	EPNG	Lab No.: 23438
Delivered	by: SAS	

Date Sampled: 2-21-92, 3-16-92, and 3-20-92

Condition of Samples upon Receipt:

Samples were received cool and in good condition. Chain-of-custody was in order.

EXTRACTION AND ANALYSIS DATES

Samples 23438-2 and -3 were analyzed for diesel range hydrocarbons per WA State DOE method WTPH-D. Samples were extracted on 3-31-92. The extracts were analyzed on 4-2-92.

Sample 23438-1 was analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver by ICP in accordance with EPA SW-846 Method 6010. Samples were digested on 3-26-92 and analyzed on 3-31-92. Mercury was analyzed by cold vapor AA per SW-846 Method 7471 on 3-30-92.

Samples 23438-1, -4 and -5 were extracted using Toxicity Characteristic Leaching Procedure (TCLP) in accordance with EPA SW-846 Method 1311 on 3-31-92.

The TCLP leachates were analyzed for arsenic, barium, cadmium, chromium, lead, selenium, and silver by ICP in accordance with Method 6010 on 4-3-92. Mercury was analyzed by cold vapor AA per Method 7470.

23438-4 and -5 TCLP leachates were analyzed for chlorinated pesticides per EPA SW-846 Method 8080 on 4-11-92.

23438-4 and -5 TCLP leachates were analyzed for chlorinated herbicides by GCECD/MS per EPA SW-846 Method 8150 on 4-11-92.

23438-1, -4 and -5 TCLP leachates were analyzed for semi-volatile organics by GC/MS in accordance with EPA SW-846 Method 8270 on 4-3-92 and 4-6-92.

Samples 23438-1, -4 and -5 were extracted in zero headspace extractors using Toxicity Characteristic Leaching Procedure (TCLP) in accordance with EPA SW-846 Method 1311. The TCLP leachates were analyzed for volatile organics by GC/MS in accordance with EPA SW-846 Method 8240 on 4-4-92.

All Quality Control was within acceptable limits.

