



**PUBLIC SERVICE COMPANY OF NEW MEXICO**

ALVARADO SQUARE ALBUQUERQUE, NEW MEXICO 87158 \_ \_ \_ \_

RECEIVED

JUN 25 1985

May 28, 1985

HAZARDOUS WASTE SECTION

Ms. Ann Claassen  
Program Manager  
Water Quality Bureau  
New Mexico Environmental  
Improvement Division  
Post Office Box 968  
Santa Fe, NM 87504-0968

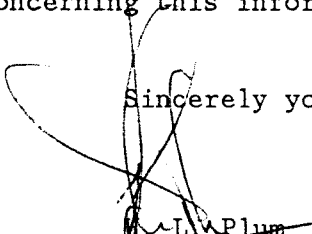
Dear Ms. Claassen:

Subject: Public Service Company  
of New Mexico's (PNM)  
Person Generating  
Station--Groundwater  
Quality Monitoring  
Results for April 1985

Enclosed is the laboratory report for groundwater samplings made at the subject site on April 29 and 30, 1985.

If you have any questions concerning this information, please call me at 848-2216.

Sincerely yours,



L. Plum  
Regulatory Coordinator

KWK:slm  
Enclosure

Code for Person Generating Station Groundwater Samples  
April 29-30, 1985

Monitor well PSMW-1: Assaigai replicates 1A2, 1B, 1C  
Rocky Mountain Analytical sample #: 4927-03

Monitor well PSMW-2: Assaigai replicates 2A1, 2B, 2C  
Rocky Mountain Analytical sample #: 4927-02

Monitor well PSMW-3: Assaigai replicates 3X2, 3Y, 3Z  
Rocky Mountain Analytical sample #: 4927-04

Monitor well PSMW-4: Assaigai replicates 4A1, 4B, 4C

Monitor well PSMW-5: Assaigai replicates 5A1, 5B, 5C

Monitor well PSMW-6: Assaigai replicates 6A2, 6B, 6C

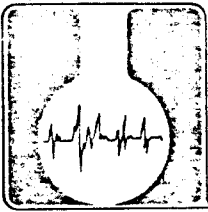
Monitor well PSMW-7: Assaigai replicates 7A2, 7B, 7C

Monitor well PSMW-8A: Assaigai replicates 8A1A, 8A2, 8A3

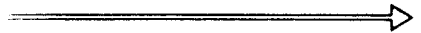
Monitor well PSMW-8B: Assaigai replicates 8BA2, 8B2, 8B3

Monitor well PSMW-3B: Assaigai replicates 3BA2, 3B2, 3B3

"Blanks" (City of Albuquerque drinking water):  
Assaigai replicate PSBW-2  
Rocky Mountain Analytical sample #: 4727-01



# ASSAIGAL ANALYTICAL LABORATORIES



TO: PNM  
Attn: Kent Kantz  
Alvarado Square  
Albuquerque, NM 87158

DATE: 2  
0538 Re  
Page 1

ANALYTE	SAMPLE ID/ ANALYTICAL	
	1A2 8504301031	1C 8504301035
1,1-Dichloroethylene	147.0 ug/l	214.0 ug/l
Tetrachloroethylene	187.0 ug/l	253.0 ug/l
1,1,1-Trichloroethane	437.0 ug/l	586.0 ug/l
	2A1 8504301300	2C * 8504301305
1,1-Dichloroethylene	115.0 ug/l	11.0 ug/l
Tetrachloroethylene	224.0 ug/l	23.0 ug/l
1,1,1-Trichloroethane	499.0 ug/l	54.0 ug/l
	3X2 8504301501	3Z 8504301505
1,1-Dichloroethylene	235.0 ug/l	254.0 ug/l
Tetrachloroethylene	324.0 ug/l	364.0 ug/l
1,1,1-Trichloroethane	953.0 ug/l	989.0 ug/l
	4A1 8504291230	4C 8504291235
1,1-Dichloroethylene	<0.1 ug/l	<0.1 ug/l
Tetrachloroethylene	<0.1 ug/l	<0.1 ug/l
1,1,1-Trichloroethane	<0.1 ug/l	<0.1 ug/l
	5A1 8504291000	5C 8504291005
1,1-Dichloroethylene	<0.1 ug/l	<0.1 ug/l
Tetrachloroethylene	<0.1 ug/l	<0.1 ug/l
1,1,1-Trichloroethane	<0.1 ug/l	<0.1 ug/l

\* 2C sample contained air bubbles

TO: PNM

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ANALYTE	SAMPLE ID/ ANALYTICAL RESULTS		
	6A2 8504300831	6B 8504300833	6C 8504300835
1,1-Dichloroethylene	9.3 ug/l	9.7 ug/l	11.3 ug/l
Tetrachloroethylene	23.3 ug/l	20.2 ug/l	20.4 ug/l
1,1,1-Trichloroethane	6.7 ug/l	5.6 ug/l	6.3 ug/l
	7A2 8504291331	7B 8540291333	7C 8504291335
1,1-Dichloroethylene	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
Tetrachloroethylene	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
1,1,1-Trichloroethane	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
	8A1A 8504300900	8A2 8504300903	8A3 8504300903
1,1-Dichloroethylene	16.1 ug/l	15.8 ug/l	17.9 ug/l
Tetrachloroethylene	8.7 ug/l	8.1 ug/l	8.4 ug/l
1,1,1-Trichloroethane	9.2 ug/l	9.6 ug/l	10.1 ug/l
	8BA2 85043000905	8B2 8504291433	8B3 8504291435
1,1-Dichloroethylene	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
Tetrachloroethylene	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
1,1,1-Trichloroethane	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
	3BA2 8504291601	3B2 8504291603	3B3 8504291605
1,1-Dichloroethylene	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
Tetrachloroethylene	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
1,1,1-Trichloroethane	<0.1 ug/l	<0.1 ug/l	<0.1 ug/l
	PSBW-2 8504300731	NOMINAL DETECTION LIMITS	
1,1-Dichloroethylene	<0.1 ug/l	0.1 ug/l	
Tetrachloroethylene	<0.1 ug/l	0.1 ug/l	
1,1,1-Trichloroethane	<0.1 ug/l	0.1 ug/l	

REFERENCE: "Organic Analysis Using Gas Chromatography/Mass Spectrometry",  
Budde & Eichelberger, Ann Arbor Science, 1979.

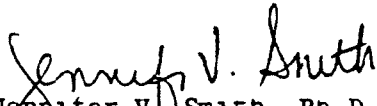
TO: PNM

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An invoice for services is enclosed. Thank you for contacting Assaigai Laboratories.

Sincerely,

  
Jennifer V. Smith, Ph.D.  
Laboratory Director

## SAMPLE DESCRIPTION

for

Assaigai Analytical

<u>RMA Sample No.</u>	<u>Sample Description</u>	<u>Sample</u>	<u>Sample</u>	<u>Date Received</u>
4927-01	PSBW-1 8504300730	wa		
4927-02	PSMW-2A2 8504301301	wa		5/3/85
4927-03	PSMW-1A1 8504301030	wa		5/3/85
4927-04	PSMW-3X1 8504301500	wa		5/3/85

May 13, 1985

## ANALYTICAL RESULTS

for

Assaigai Analytical Laboratories

## PURGEABLE ORGANICS METHOD 601

<u>Parameter</u>	Detection		<u>4927-01</u>	<u>4927-02</u>	<u>4927-03</u>	<u>4927-04</u>
	<u>Units</u>	<u>Limit</u>				
1,1-Dichloroethylene	ug/l	0.5	ND	73	120	210
Tetrachloroethylene	ug/l	0.2	0.7	170	220	370
1,1,1-Trichloroethane	ug/l	0.4	ND	380	460	1000

ND = Not detected.

# ROCKY MOUNTAIN ANALYTICAL LABORATORY

## Organic Analytical Methodology

<u>Parameter</u>	<u>Units</u>	<u>Nominal Detection Limit (a)</u>	<u>Methodology</u>	<u>Reference (1)</u>	<u>Preservation Bottle No.</u>	<u>Maximum Holding Time (b)</u>
				624	11	14 days
Purgeables	ug/l	1	Purge & Trap GC/MS	625	12	7 days/40 days
Base/Neutrals	ug/l	10	Extraction/GC/MS	625	12	7 days/40 days
Acids	ug/l	10	Extraction/GC/MS	608	13	7 days/40 days
Organochlorine Pesticides/PCB's	ug/l	0.01	Extraction/GC/ECD	625	12	7 days/40 days
		10	Extraction/GC/MS	(2)	14	7 days/40 days
Phenoxy Herbicides	ug/l	0.01	Extraction/GC/ECD	450.1 (3)	15	-
Total Organic Halogen (TOX)	ug/l	5	Adsorbtion/Coulometric	(4)	11	14 days
Trihalomethanes (THM)	ug/l	1	Extraction/GC/ECD	(4)	11	14 days
		1	Purge & Trap GC/MS	613	16	7 days/40 d
Dioxin	ug/l	0.005	Extraction/GC/MS/ECD	601	11	14 days
Purgeable Halocarbons	ug/l	0.01	Purge & Trap/GC/Hall	602	17	14 days
Purgeable Aromatics	ug/l	1	Purge & Trap/GC/PID	603	18	14 days
Acrolein & Acrylonitrile	ug/l	100	Purge & Trap/GC/FID	604	16	7 days/40 days
Phenols by GC	ug/l	10	Extraction/GC/FID	605	19	7 days/40 days
Benzidines	ug/l	0.1	Extraction/HPLC	606	12	7 days/40 days
Phthalate Esters	ug/l	10	Extraction/GC/FID	607	20	7 days/40 days
Nitrosamines	ug/l	1	Extraction/GC/NPD	609	12	7 days/40 days
Nitroaromatics/isophorone	ug/l	1	Extraction/GC/FID & GC/ECD	610	20	7 days/40 days
Polynuclear Aromatics	ug/l	0.5	Extraction/HPLC	611	17	7 days/40 days
Haloethers	ug/l	1	Extraction/GC/Hall	612	12	7 days/40 days
Chlorinated Hydrocarbons	ug/l	0.02	Extraction/GC/ECD	622(5)	12	7 days/40 days
Organophosphorus Pesticides	ug/l	0.1	Extraction/GC/NPD	(6)	12	7 days/40 days
Triazine Pesticides	ug/l	0.1	Extraction/GC/NPD			

### References

- (1) Federal Register, Vol. 44, No. 233, Monday, December 3, 1979.
- (2) "Method for Chlorinated Phenoxy Acid Herbicides in Industrial Effluents," Federal Register, Vol. 38, No. 75, Part II.
- (3) "Total Organic Halide," US EPA-EMSL, Cincinnati, November, 1980.
- (4) Federal Register, Vol. 44, No. 231, Thursday, November 29, 1979, Appendix, Part I.
- (5) "Method 622- Organophosphorus Pesticides," Proposed EPA Method, 304 (h) Committee.
- (6) Federal Register, Vol. 38, No. 75, 1973.

### Notes

- <sup>a</sup> Nominal values are the best achievable with the listed analytical method for a typical component. Interferences in specific samples may result in a higher detection limit.
- <sup>b</sup> Applicable to NPDES Wastes as updated by Robert C. Booth, Director, EMSL-Cincinnati, September 22, 1981. Where two times are given, the first refers to the time to extraction, the second to the time of instrumental analysis.



**ROCKY MOUNTAIN ANALYTICAL LABORATORY**  
**Organic Analytical Methodology (continued)**

<u>Preservation Bottle No.</u>	<u>Parameter Group</u>	<u>Bottle</u>	<u>Preservation</u>
11	Purgeables	40 ml glass with teflon lined silicone septum cap	4°C (thiosulfate if Cl <sub>2</sub> present)
17	Purgeables	40 ml glass with teflon lined silicone septum cap	4°C, HCl to pH less than 2 (thiosulfate if Cl <sub>2</sub> present)
18	Purgeables	40 ml glass with teflon lined silicone septum cap	4°C, adjust pH to 4 - 5 (thiosulfate if Cl <sub>2</sub> present)
12, 13, 14	Extractables	1 liter glass with teflon lined cap	
20	Extractables	1 liter glass with teflon lined cap	4°C, store in dark (thiosulfate if Cl <sub>2</sub> present)
15	TOX	250 ml glass with teflon lined cap, single 1 liter glass with teflon lined cap, quad.	4°C, store in dark (thiosulfate if Cl <sub>2</sub> present)