

2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

Pinnacle Lab ID number      **906016**  
June 24, 1999

NMED-HRMB  
2044A GALISTEO ST.  
SANTA FE,                      NM                      87505

Project Name                      NMED-PNM  
Project Number                      (none)

Attention:                      CARL WILL

On 6/2/99 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8021 was performed by Pinnacle Laboratories, Inc., Albuquerque, NM.

All other parameters were performed by ESL (OR) Inc., Portland, OR.

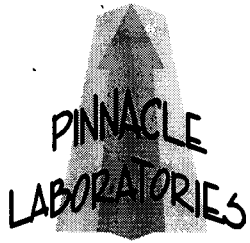
If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

Kimberly D. McNeill  
Project Manager

H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: mt

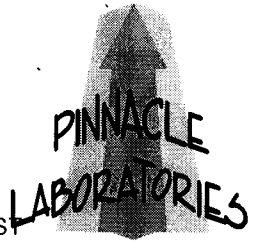
Enclosure



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CLIENT : NMED-HRMB PINNACLE ID : 906016  
PROJECT # : (none) DATE RECEIVED : 6/2/99  
PROJECT NAME : NMED-PNM REPORT DATE : 6/24/99

PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	PSMW-01R	AQUEOUS	6/2/99
02	PSMW-8A	AQUEOUS	6/2/99
03	PSMW-10	AQUEOUS	6/2/99
04	PSMW-16	AQUEOUS	6/2/99
05	PSMW-27	AQUEOUS	6/2/99
06	PSMW-27-500	AQUEOUS	6/2/99
07	PSMW-D	AQUEOUS	6/2/99
08	TRIP BLANK	AQUEOUS	5/22/99



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GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO  
 CLIENT : NMED-HRMB  
 PROJECT # : (none)  
 PROJECT NAME : NMED-PNM

PINNACLE I.D.: 906016

SAMPLE		DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	PSMW-01R	AQUEOUS	6/2/99	NA	6/7/99	1
02	PSMW-8A	AQUEOUS	6/2/99	NA	6/7/99	1
03	PSMW-10	AQUEOUS	6/2/99	NA	6/7/99	1

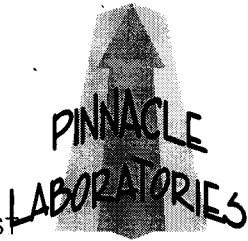
PARAMETER	DET. LIMIT	UNITS	PSMW-01R	PSMW-8A	PSMW-10
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>CHLOROFORM</b>	0.5	<b>UG/L</b>	<b>1.3</b>	<b>1.0</b>	<b>1.4</b>
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>1,1-DICHLOROETHANE</b>	0.3	<b>UG/L</b>	<b>3.3</b>	<b>2.7</b>	<b>2.9</b>
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>1,1-DICHLOROETHENE</b>	0.2	<b>UG/L</b>	<b>14</b>	<b>19</b>	<b>36</b>
<b>cis-1,2-DICHLOROETHENE</b>	0.2	<b>UG/L</b>	<b>0.2</b>	<b>0.4</b>	<b>0.2</b>
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>TETRACHLOROETHENE</b>	0.5	<b>UG/L</b>	<b>42</b>	<b>40</b>	<b>140</b>
<b>1,1,1-TRICHLOROETHANE</b>	1.0	<b>UG/L</b>	<b>3.5</b>	<b>4.0</b>	<b>5.4</b>
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
<b>TRICHLOROETHENE</b>	0.3	<b>UG/L</b>	< 0.3	< 0.3	<b>0.4</b>
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		106	108	94
SURROGATE LIMITS	( 73 - 117 )			
TRIFLUOROTOLUENE (%)		113	107	99
SURROGATE LIMITS	( 69 - 117 )			

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO  
 CLIENT : NMED-HRMB  
 PROJECT # : (none)  
 PROJECT NAME : NMED-PNM

PINNACLE I.D.: 906016

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	PSMW-16	AQUEOUS	6/2/99	NA	6/7/99	1
05	PSMW-27	AQUEOUS	6/2/99	NA	6/7/99	1
06	PSMW-27-500	AQUEOUS	6/2/99	NA	6/7/99	1

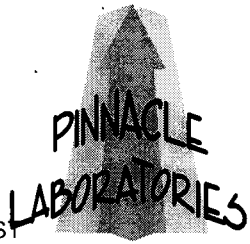
PARAMETER	DET. LIMIT	UNITS	PSMW-16	PSMW-27	PSMW-27-500
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLORO BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>CHLOROFORM</b>	0.5	<b>UG/L</b>	<b>1.1</b>	<b>1.2</b>	<b>5.5</b>
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLORO BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLORO BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLORO BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>1,1-DICHLOROETHANE</b>	0.3	<b>UG/L</b>	<b>1.3</b>	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>1,1-DICHLOROETHENE</b>	0.2	<b>UG/L</b>	<b>25</b>	<b>16</b>	<b>5.4</b>
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
<b>TETRACHLOROETHENE</b>	0.5	<b>UG/L</b>	<b>78</b>	<b>13</b>	<b>2.1</b>
<b>1,1,1-TRICHLOROETHANE</b>	1.0	<b>UG/L</b>	<b>1.9</b>	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		104	104	102
SURROGATE LIMITS	( 73 - 117 )			
TRIFLUOROTOLUENE (%)		106	NA	NA
SURROGATE LIMITS	( 69 - 117 )			

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY RESULTS

TEST : 8021 HALO  
 CLIENT : NMED-HRMB  
 PROJECT # : (none)  
 PROJECT NAME : NMED-PNM

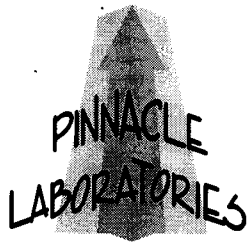
PINNACLE I.D.: 906016

SAMPLE		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	PSMW-D	AQUEOUS	6/2/99	NA	6/7/99	1
08	TRIP BLANK	AQUEOUS	5/22/99	NA	6/7/99	1

PARAMETER	DET. LIMIT	UNITS	PSMW-D	TRIP BLANK
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2
CHLORO BENZENE	0.5	UG/L	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
<b>CHLOROFORM</b>	0.5	<b>UG/L</b>	<b>2.0</b>	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5
<b>1,1-DICHLOROETHANE</b>	0.3	<b>UG/L</b>	<b>3.8</b>	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5
<b>1,1-DICHLOROETHENE</b>	0.2	<b>UG/L</b>	<b>42</b>	< 0.2
<b>cis-1,2-DICHLOROETHENE</b>	0.2	<b>UG/L</b>	<b>0.2</b>	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5
<b>TETRACHLOROETHENE</b>	0.5	<b>UG/L</b>	<b>160</b>	< 0.5
<b>1,1,1-TRICHLOROETHANE</b>	1.0	<b>UG/L</b>	<b>6.9</b>	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2
<b>TRICHLOROETHENE</b>	0.3	<b>UG/L</b>	<b>0.5</b>	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5

SURROGATE:		
BROMOCHLOROMETHANE (%)		108 107
SURROGATE LIMITS	( 73 - 117 )	
TRIFLUOROTOLUENE (%)		116 112
SURROGATE LIMITS	( 69 - 117 )	

CHEMIST NOTES:  
 N/A



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GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST	: EPA 8021	PINNACLE I.D.	: 906016
BLANK I.D.	: 060799	DATE EXTRACTED	: NA
CLIENT	: NMED-HRMB	DATE ANALYZED	: 6/7/99
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: NMED-PNM		

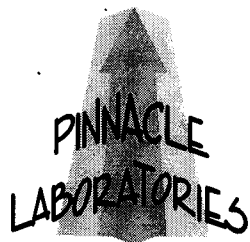
PARAMETER	UNITS	
BROMODICHLOROMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROENZENE	UG/L	<0.5
1,3-DICHLOROENZENE	UG/L	<0.5
1,4-DICHLOROENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		99
SURROGATE LIMITS	( 73 - 117 )	
TRIFLUOROTOLUENE (%)		104
SURROGATE LIMITS	( 69 - 117 )	

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY - QUALITY CONTROL  
 MSMSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 906016
MSMSD #	: 906021-03	DATE EXTRACTED	: NA
CLIENT	: NMED-HRMB	DATE ANALYZED	: 6/7/99
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: NMED-PNM	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	10.8	108	10.1	101	7	( 87 - 124 )	20
1,1-DICHLOROETHENE	<0.2	10.0	10.4	104	9.4	94	10	( 80 - 120 )	20
TRICHLOROETHENE	<0.3	10.0	10.5	105	9.9	99	6	( 89 - 127 )	20

CHEMIST NOTES:

N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

# *Environmental Services Laboratory, Inc.*

17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 670-8520

June 21, 1999

Kim McNeill  
Pinnacle Laboratories  
2709-D Pan American Fwy NE

Albuquerque, NM 87107

TEL: 505-344-3777

FAX (505) 344-4413

RE: 906016/NMHR/NMED-PNM

Order No.: 9906022

Dear Kim McNeill,

Environmental Services Laboratory received 1 sample on 06/03/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Hexavalent Chrome (SW7196A)

ICP Metals (ICPMET)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety, without the written approval from the Laboratory.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Kimberly Hill  
Project Manager



Technical Review



# Environmental Services Laboratory

Date: 21-Jun-99

CLIENT: Pinnacle Laboratories

Client Sample ID: 906016-02

Lab Order: 9906022

Tag Number:

Project: 906016/NMHR/NMED-PNM

Collection Date: 06/02/99

Lab ID: 9906022-01A

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>HEXAVALENT CHROME</b>		<b>8023</b>				Analyst: sld
Hexavalent Chrome	0.081	0.005		mg/L	1	06/03/99
<b>ICP METALS</b>		<b>SW 6010 / EPA 200.</b>				Analyst: btn
Chromium	0.081	0.05		mg/L	10	06/17/99
Lead	0.13	0.05		mg/L	10	06/17/99

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

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

CLIENT: Pinnacle Laboratories  
 Work Order: 9906022  
 Project: 906016/NMHR/NMED-PNM

**QC SUMMARY REPORT**  
 Method Blank

Sample ID: MBlank	Batch ID: 01 HEXCR A-	Test Code: SW7196A	Units: mg/L	Analysis Date 06/03/99	Prep Date:
Client ID:	9906022	Run ID: HIT MAN_990603B		SeqNo: 12220	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chrome	ND	0.005			

Sample ID: MB-538	Batch ID: 538	Test Code: ICPMET	Units: mg/L	Analysis Date 06/17/99	Prep Date: 06/16/99
Client ID:	9906022	Run ID: ICP_990617A		SeqNo: 15038	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.005			
Barium	ND	0.005			
Cadmium	ND	0.002			
Chromium	ND	0.005			
Lead	ND	0.005			
Selenium	ND	0.005			
Silver	ND	0.005			

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

Environmental Services Laboratory

Date: 21-Jun-99

CLIENT: Pinnacle Laboratories  
 Work Order: 9906022  
 Project: 906016/NMHR/NMED-PNM

**QC SUMMARY REPORT**  
 Sample Duplicate

Sample ID: 9906022-01A DUP	Batch ID: 01 HEXCR A-	Test Code: SW7196A	Units: mg/L	Analysis Date 06/03/99	Prep Date:						
Client ID: 906016-02	9906022	Run ID: HIT MAN_990603B		SeqNo: 12223							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chrome	.076	0.005	0	0	0.0%	0	0	0.081	6.4%	20	

Sample ID: 9906047-01B DUP	Batch ID: 538	Test Code: ICPMET	Units: mg/L	Analysis Date 06/17/99	Prep Date: 06/16/99						
Client ID:	9906022	Run ID: ICP_990617A		SeqNo: 15022							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.005	0	0	0.0%	0	0	0	0.0%	20	
Barium	1.894	0.005	0	0	0.0%	0	0	1.89	0.2%	20	
Cadmium	ND	0.002	0	0	0.0%	0	0	0	0.0%	20	
Chromium	ND	0.005	0	0	0.0%	0	0	0	0.0%	20	
Lead	.01306	0.005	0	0	0.0%	0	0	0.01334	2.1%	20	
Selenium	.007358	0.005	0	0	0.0%	0	0	0.007127	3.2%	20	
Silver	ND	0.005	0	0	0.0%	0	0	0	0.0%	20	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

Environmental Services Laboratory

Date: 21-Jun-99

CLIENT: Pinnacle Laboratories  
 Work Order: 9906022  
 Project: 906016/NMHR/NMED-PNM

**QC SUMMARY REPORT**  
 Sample Matrix Spike

Sample ID: 9906022-01A MS	Batch ID: 01 HEXCR A-	Test Code: SW7196A	Units: mg/L	Analysis Date 06/03/99	Prep Date:						
Client ID: 906016-02	9906022	Run ID: HIT MAN_990603B		SeqNo: 12224							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chrome	.18	0.005	0.1	0.081	99.0%	75	125	0			

Sample ID: 9906022-01A MSD	Batch ID: 01 HEXCR A-	Test Code: SW7196A	Units: mg/L	Analysis Date 06/03/99	Prep Date:						
Client ID: 906016-02	9906022	Run ID: HIT MAN_990603B		SeqNo: 12225							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chrome	.186	0.005	0.1	0.081	105.0%	75	125	0.18	3.3%	20	

Sample ID: 9906047-01B MS	Batch ID: 538	Test Code: ICPMET	Units: mg/L	Analysis Date 06/17/99	Prep Date: 06/16/99						
Client ID:	9906022	Run ID: ICP_990617A		SeqNo: 15023							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.5172	0.005	0.5	0	103.4%	80	120	0			
Barium	2.367	0.005	0.5	1.89	95.4%	80	120	0			
Cadmium	.4722	0.002	0.5	0	94.4%	80	120	0			
Chromium	.4833	0.005	0.5	0	96.7%	80	120	0			
Lead	.4915	0.005	0.5	0.01334	95.6%	80	120	0			
Selenium	.5343	0.005	0.5	0.007127	105.4%	80	120	0			
Silver	.5171	0.005	0.5	0	103.4%	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

**CLIENT:** Pinnacle Laboratories  
**Work Order:** 9906022  
**Project:** 906016/NMHR/NMED-PNM

**QC SUMMARY REPORT**  
 Sample Matrix Spike Duplicate

Sample ID: 9906047-01B MSD    Batch ID: 538    Test Code: ICPMET    Units: mg/L    Analysis Date 06/17/99    Prep Date: 06/16/99  
 Client ID: 9906022    Run ID: ICP\_990617A    SeqNo: 15024

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.5227	0.005	0.5	0	104.5%	80	120	0.5172	1.1%	20	
Barium	2.381	0.005	0.5	1.89	98.2%	80	120	2.367	0.6%	20	
Cadmium	.4661	0.002	0.5	0	93.2%	80	120	0.4722	1.3%	20	
Chromium	.4776	0.005	0.5	0	95.5%	80	120	0.4833	1.2%	20	
Lead	.4762	0.005	0.5	0.01334	92.6%	80	120	0.4915	3.2%	20	
Selenium	.5303	0.005	0.5	0.007127	104.6%	80	120	0.5343	0.7%	20	
Silver	.5192	0.005	0.5	0	103.8%	80	120	0.5171	0.4%	20	

**Qualifiers:**    ND - Not Detected at the Reporting Limit    S - Spike Recovery outside accepted recovery limits    B - Analyte detected in the associated Method Blank  
                     J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits

Environmental Services Laboratory

Date: 21-Jun-99

CLIENT: Pinnacle Laboratories  
 Work Order: 9906022  
 Project: 906016/NMHR/NMED-PNM

**QC SUMMARY REPORT**  
 Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 01 HEXCR A-	Test Code: SW7196A	Units: mg/L	Analysis Date: 06/03/99	Prep Date:						
Client ID:	9906022	Run ID: HIT MAN_990603B		SeqNo: 12221							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chrome	.0963	0.005	0.1	0	96.3%	85	115	0			

Sample ID: LCS-538	Batch ID: 538	Test Code: ICPMET	Units: mg/L	Analysis Date: 06/17/99	Prep Date: 06/16/99						
Client ID:	9906022	Run ID: ICP_990617A		SeqNo: 15037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.4881	0.005	0.5	0	97.6%	80	120	0			
Barium	.4628	0.005	0.5	0	92.6%	80	120	0			
Cadmium	.4851	0.002	0.5	0	97.0%	80	120	0			
Chromium	.497	0.005	0.5	0	99.4%	80	120	0			
Lead	.4852	0.005	0.5	0	97.0%	80	120	0			
Selenium	.4735	0.005	0.5	0	94.7%	80	120	0			
Silver	.4765	0.005	0.5	0	95.3%	80	120	0			

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories  
 Work Order: 9906022  
 Project: 906016/NMHR/NMED-PNM

**QC SUMMARY REPORT**  
 Initial Calibration Verification Standard

Sample ID: ICVLOW	Batch ID: 538	Test Code: ICPMET	Units: mg/L	Analysis Date: 06/17/99	Prep Date:							
Client ID:	9906022	Run ID: ICP_990617A		SeqNo: 15036								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic	.5075	0.005	0.5	0	101.5%	90	110	0				
Barium	.4977	0.005	0.5	0	99.5%	90	110	0				
Cadmium	.5024	0.002	0.5	0	100.5%	90	110	0				
Chromium	.5073	0.005	0.5	0	101.5%	90	110	0				
Lead	.5112	0.005	0.5	0	102.2%	90	110	0				
Selenium	.5046	0.005	0.5	0	100.9%	90	110	0				
Silver	.5016	0.005	0.5	0	100.3%	90	110	0				

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

Network Project Manager: Kimberly D. McNeill					ANALYSIS REQUEST																						
Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, New Mexico 87107 (505) 344-3777 Fax (505) 344-4413					Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL	Total Cr, Pb	TOX	<del>Hex Cr</del>	Gen Chemistry	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8080)	8270 BY GC/MS	PNA (8310)	8240 (TCLP 1311) ZHE	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
					SAMPLE ID	DATE	TIME	MATRIX	LAB ID																		
906016-02	6/2	1430	AQ	01					X	X																	

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT #:	906016	Total Number of Containers		PENSACOLA - STL-FL	Signature:	Time:	Signature:	Time:	
PROJ. NAME:	NMHR	Chain of Custody Seals		PORTLAND - ESL-OR	Francine Jairo 1700				
QC LEVEL:	STD IV	Received Intact?		STL - CT	Printed Name:	Date:	Printed Name:	Date:	
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		STL - NEW JERSEY	Francine Torino 6/2/99				
TAT:	STANDARD RUSH!!	LAB NUMBER:		N. CREEK	Pinnacle Laboratories, Inc.		Company		
DUE DATE:	6/16	COMMENTS:		BARRINGER	RECEIVED BY: 1.		RECEIVED BY: 2.		
RUSH SURCHARGE:	-			SEQUOIA	Signature:	Time:	Signature:	Time:	
CLIENT DISCOUNT:	-				Kimberly D. McNeill 10A				
SPECIAL CERTIFICATION REQUIRED:	YES NO				Printed Name:	Date:	Printed Name:	Date:	
					6/3/99				
				Company			Company		





Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 6/2/99 PAGE: 1 OF 1

PLI Accession #: 906016

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Carl Will

COMPANY: NMED HRMB  
 ADDRESS: 2044 - A Galisteo Street  
 Santa Fe NM 87502  
 PHONE: 505 827-1561  
 FAX: 505-827-1544  
 BILL TO: ATTN: Steve Vigil  
 COMPANY: NMED HRMB  
 ADDRESS: same as above

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) <input type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB <input type="checkbox"/> / DBCP <input type="checkbox"/>	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: Total Cr and Pb Hexavalent Cr	NUMBER OF CONTAINERS	
PSMW-OIR	6/2/99	1400	Water	01							X																		2
PSMW - BA		1430		02							X																X	X	4
PSMW - 10		1530		03							X																		2
PSMW - 16		1600		04							X																		2
PSMW - 27		1050		05							X																		2
PSMW - 27 - 500		1300		06							X																		2
PSMW - D		1540		07							X																		2
Trip Blank	6/2/99	-		08							X																		1

<b>PROJECT INFORMATION</b>		<b>PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS</b>		<b>RELINQUISHED BY: 1.</b>		<b>RELINQUISHED BY: 2.</b>	
PROJ. NO.:		(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK	(NORMAL) <input checked="" type="checkbox"/>	Signature:	Time: 1615	Signature:	Time:
PROJ. NAME: NMED - PNM		CERTIFICATION REQUIRED: <input checked="" type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		Printed Name:	Date: 6/2/99	Printed Name:	Date:
P.O. NO.:		METHANOL PRESERVATION <input type="checkbox"/>		Company: NMED - HRMB		Company:	
SHIPPED VIA:		COMMENTS: FIXED FEE <input type="checkbox"/>		See reverse side (Force Magure)			
<b>SAMPLE RECEIPT</b>		FAX VERBALS		<b>RECEIVED BY: 1.</b>		<b>RECEIVED BY: (LAB) 2.</b>	
NO. CONTAINERS	19			Signature:	Time:	Signature:	Time: 1617
CUSTODY SEALS	0/N/NA			Printed Name:	Date:	Printed Name: Francine Thomas	Date: 6/2/99
RECEIVED INTACT	YES			Company:		Pinnacle Laboratories Inc.	
BLUE ICE/ICE	16°C						