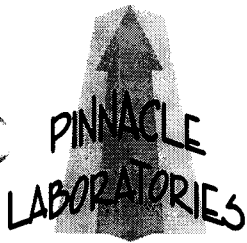


Hswa LANC
4/1099/TAle
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~~W-111~~ T

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

LIBRARY COPY

PL I.D. 906102

July 28, 1999

NMED HRMB
2044A Galiseto
Santa Fe, NM 87505

Project Name/Number: PARAJITO CANYON 6.99

Attention: John Young

On 06/29/99, Pinnacle Laboratories 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.

All analyses were performed by Barringer Laboratories, Inc., Denver, CO.

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:jt

Enclosure



3052

TL



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

CLIENT :NMED HRMB DATE RECEIVED :06/29/99
 PROJECT # :(NONE)
 PROJECT NAME :PARAJITO CANYON 6.99 REPORT DATE :07/28/99

PL ID: 906102

	PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	906102-01	SP-3 MILE (A) – 6.99	AQUEOUS	06/25/99
02	906102-02	SP-3 MILE (B) – 6.99	AQUEOUS	06/25/99
03	906102-03	SW-TM0.4 – 6.99	AQUEOUS	06/25/99
04	906102-04	SP – TA18 – 6.99	AQUEOUS	06/25/99

---TOTALS---

MATRIX
AQUEOUS

#SAMPLES
4



BARRINGER LABORATORIES, INC.

15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

23-Jul-99

Kimberly D. McNeill
PINNACLE LABORATORIES INC.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107

Attn:
Project: 906102

PO #:

Received: 29-Jun-99 09:50

Job: 992441E

Status: Final

ANALYTICAL REPORT PACKAGE

CASE NARRATIVE.....i
ANALYTICAL RESULTS.....R-1
QUALITY CONTROL REPORT.....Q-1

BARRINGER LABORATORIES, INC.

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23-Jul-99

Kimberly D. McNeill
PINNACLE LABORATORIES INC.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107

Page: i

Attn:
Project: 906102

PO #:

Received: 29-Jun-99 09:50

Job: 992441E

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CASE NARRATIVE

A total of 4 Water samples were received on 29-Jun-99. As stated in the chain of custody, the samples were run for the following analysis: Explosives. A table, to cross reference your sample ID to ours, is attached. Our procedures are summarized on the Quality Control Data Sheet.

Quality control standards for organic and inorganic analyses followed the appropriate SW-846 or EPA methodology. Quality control standards for radiochemistry followed our standard operating procedures or contractual requirements.

Signed:

[Signature]
..... 7/23/99
Organic
Manager

Signed:

[Signature]
.....
Project Review
7/23/99



BARRINGER LABORATORIES, INC.

15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

Kimberly D. McNeill
PINNACLE LABORATORIES INC.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107

23-Jul-99
Page: ii

Attn:
Project: 906102

PO #:

Received: 29-Jun-99 09:50

Job: 992441E

Status: Final

Lab-ID	Matrix	Client Sample ID	Sampled
992441-1	Water	906102-01	25-Jun-99
992441-2	Water	906102-02	25-Jun-99
992441-3	Water	906102-03	25-Jun-99
992441-4	Water	906102-04	25-Jun-99

BARRINGER LABORATORIES, INC.

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23-Jul-99

Page: R-1

Job: 992441E

Status: Final

PINNACLE LABORATORIES INC.

Explosives

Sample Id: 906102-01

Lab Id: 992441-1

Date Sampled: 25-Jun-99

Date Extracted: 2-Jul-99

Date Analyzed: 13-Jul-99

Project: 906102

Dilution Factor: 1:1

Matrix: Water

Method: 8330

Analyte	CAS Number	Concentration $\mu\text{g}/\text{l}$	MDL
HMX	2691-41-0	0.58	0.20
RDX	121-82-4	U	0.20
1,3,5-Trinitrobenzene	99-35-4	U	0.10
1,3-Dinitrobenzene	99-65-0	U	0.20
2,6-Dinitrotoluene	606-20-2	U	0.40
2,4-Dinitrotoluene	121-14-2	U	0.40
TNT	118-96-7	U	0.60
Tetryl	479-45-8	U	0.60
Nitrobenzene	98-95-3	U	0.40
2-Nitrotoluene	88-72-2	U	0.40
4-Nitrotoluene	99-99-0	U	0.40
3-Nitrotoluene	99-08-1	U	0.40
2-Amino-4,6-DNT	35572-78-2	U	0.40
4-Amino-2,6-DNT	1946-51-0	U	0.90
PETN	78-11-5	U	6.0

Surrogate	Recovery	Limit
3,4-Dinitrotoluene	57%	56-120%

BARRINGER LABORATORIES, INC.

15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

23-Jul-99

Page: R-2

Job: 992441E

Status: Final

PINNACLE LABORATORIES INC.

Explosives

Sample Id: 906102-02

Lab Id: 992441-2

Date Sampled: 25-Jun-99

Date Extracted: 2-Jul-99

Date Analyzed: 13-Jul-99

Project: 906102

Dilution Factor: 1:1

Matrix: Water

Method: 8330

Analyte	CAS Number	Concentration $\mu\text{g/l}$	MDL
HMX	2691-41-0	0.65	0.20
RDX	121-82-4	U	0.20
1,3,5-Trinitrobenzene	99-35-4	U	0.10
1,3-Dinitrobenzene	99-65-0	U	0.20
2,6-Dinitrotoluene	606-20-2	U	0.40
2,4-Dinitrotoluene	121-14-2	U	0.40
TNT	118-96-7	U	0.60
Tetryl	479-45-8	U	0.60
Nitrobenzene	98-95-3	U	0.40
2-Nitrotoluene	88-72-2	U	0.40
4-Nitrotoluene	99-99-0	U	0.40
3-Nitrotoluene	99-08-1	U	0.40
2-Amino-4,6-DNT	35572-78-2	U	0.40
4-Amino-2,6-DNT	1946-51-0	U	0.90
PETN	78-11-5	U	6.0

Surrogate	Recovery	Limit
3,4-Dinitrotoluene	T54%	56-120%

BARRINGER LABORATORIES, INC.

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23-Jul-99

Page: R-3

Job: 992441E

Status: Final

PINNACLE LABORATORIES INC.

Explosives

Sample Id: 906102-03

Lab Id: 992441-3

Date Sampled: 25-Jun-99

Date Extracted: 2-Jul-99

Date Analyzed: 13-Jul-99

Project: 906102

Dilution Factor: 1:1

Matrix: Water

Method: 8330

Analyte	CAS Number	Concentration $\mu\text{g}/\text{l}$	MDL
HMX	2691-41-0	0.35	0.20
RDX	121-82-4	U	0.20
1,3,5-Trinitrobenzene	99-35-4	U	0.10
1,3-Dinitrobenzene	99-65-0	U	0.20
2,6-Dinitrotoluene	606-20-2	U	0.40
2,4-Dinitrotoluene	121-14-2	U	0.40
TNT	118-96-7	U	0.60
Tetryl	479-45-8	U	0.60
Nitrobenzene	98-95-3	U	0.40
2-Nitrotoluene	88-72-2	U	0.40
4-Nitrotoluene	99-99-0	U	0.40
3-Nitrotoluene	99-08-1	U	0.40
2-Amino-4,6-DNT	35572-78-2	U	0.40
4-Amino-2,6-DNT	1946-51-0	U	0.90
PETN	78-11-5	U	6.0

Surrogate	Recovery	Limit
3,4-Dinitrotoluene	73%	56-120%

BARRINGER LABORATORIES, INC.

15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

23-Jul-99

Page: R-4

Job: 992441E

Status: Final

PINNACLE LABORATORIES INC.

Explosives

Sample Id: 906102-04

Lab Id: 992441-4

Date Sampled: 25-Jun-99

Date Extracted: 2-Jul-99

Date Analyzed: 13-Jul-99

Project: 906102

Dilution Factor: 1:1

Matrix: Water

Method: 8330

Analyte	CAS Number	Concentration $\mu\text{g/l}$	MDL
HMX	2691-41-0	0.24	0.20
RDX	121-82-4	U	0.20
1,3,5-Trinitrobenzene	99-35-4	U	0.10
1,3-Dinitrobenzene	99-65-0	U	0.20
2,6-Dinitrotoluene	606-20-2	U	0.40
2,4-Dinitrotoluene	121-14-2	U	0.40
TNT	118-96-7	U	0.60
Tetryl	479-45-8	U	0.60
Nitrobenzene	98-95-3	U	0.40
2-Nitrotoluene	88-72-2	U	0.40
4-Nitrotoluene	99-99-0	U	0.40
3-Nitrotoluene	99-08-1	U	0.40
2-Amino-4,6-DNT	35572-78-2	U	0.40
4-Amino-2,6-DNT	1946-51-0	U	0.90
PETN	78-11-5	U	6.0

Surrogate	Recovery	Limit
3,4-Dinitrotoluene	57%	56-120%



BARRINGER LABORATORIES, INC.

15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

23-Jul-99

Page: Q-1

Job: 992441E

Status: Final

PINNACLE LABORATORIES INC.

QUALITY CONTROL REPORT

Lab Id: Method Blank
Date Sampled: NA
Date Extracted: 2-Jul-99
Date Analyzed: 13-Jul-99

Project: 906102
Dilution Factor: 1:1
Matrix: Water
Method: 8330

Analyte	CAS Number	Concentration $\mu\text{g/l}$	MDL
HMX	2691-41-0	U	0.20
RDX	121-82-4	U	0.20
1,3,5-Trinitrobenzene	99-35-4	U	0.10
1,3-Dinitrobenzene	99-65-0	U	0.20
2,6-Dinitrotoluene	606-20-2	U	0.40
2,4-Dinitrotoluene	121-14-2	U	0.40
TNT	118-96-7	U	0.60
Tetryl	479-45-8	U	0.60
Nitrobenzene	98-95-3	U	0.40
2-Nitrotoluene	88-72-2	U	0.40
4-Nitrotoluene	99-99-0	U	0.40
3-Nitrotoluene	99-08-1	U	0.40
2-Amino-4,6-DNT	35572-78-2	U	0.40
4-Amino-2,6-DNT	1946-51-0	U	0.90
PETN	78-11-5	U	6.0

Surrogate	Recovery	Limit
3,4-Dinitrotoluene	65%	56-120%

BARRINGER LABORATORIES, INC.

15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

Kimberly D. McNeill
PINNACLE LABORATORIES INC.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107

23-Jul-99
Page: Q-2

Attn:
Project: 906102

PO #:

Received: 29-Jun-99 09:50

Job: 992441E

Status: Final

Abbreviations:

Parameters:

HMX : Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
RDX : Hexahydro-1,3,5-trinitro-1,3,5-triazine
TNT : 2,4,6-Trinitrotoluene
Tetryl : Methyl-2,4,6-trinitrophenylnitramine
2-Amino-4,6-DNT : 2-Amino-4,6-Dinitrotoluene
4-Amino-2,6-DNT : 4-Amino-2,6-Dinitrotoluene
PETN : Pentaerythritol tetranitrate

Units:

$\mu\text{g/l}$: micrograms per liter
% : percent

Quality codes:

T : Surrogate recovery outside reporting limit
U : Undetected at reported limit



Kimberly D. McNeill
PINNACLE LABORATORIES INC.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107

23-Jul-99
Page: Q-3

Attn: Project: 906102 PO #: Received: 29-Jun-99 09:50
Job: 992441E Status: Final

QUALITY CONTROL DATA SHEET

Received by: kz Via: Fed Ex

Sample Container Type: 1L gls
Additional Lab Preparation: None

Parameter	Method	Preservative	Init	Analysis Dates
Explosives	8330	6°C	RDH	07/13

Barringer Laboratories, Inc. will return or dispose of your samples 30 days from the date your final report is mailed, unless otherwise specified by contract. Barringer Laboratories, Inc. reserves the right to return samples prior to the 30 days if radioactive levels exceed our license.

SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: John Young

COMPANY: NMED-MRMB

ADDRESS: 20417 Galisteo
Santa Fe, NM 87505

PHONE: 505/827-1553 x 1036

FAX: 505/827-1544

BILL TO: Stephen Vigil

COMPANY: Some as above

ADDRESS: _____

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject	8330 Nitroaromatics Nitroaromatics	(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:	NUMBER OF CONTAINERS	
SP-3mile (S) - 6.99	6/25/99	1025A	water																										
SP-3mile (W) - 6.99	6/25/99	1050A	water																										
SW-TIME 4 - 6.99	6/25/99	1200p	water																										
SP-TA 12 - 6.99	6/25/99	1230p	water																										

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
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:	Signature:	Time:
PROJ. NAME: <u>Pesticide Company 6.99</u>		CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		<u>John Young</u>	<u>100pm</u>		
P.O. NO.:		METHANOL PRESERVATION <input type="checkbox"/>		Printed Name:	Date:	Printed Name:	Date:
SHIPPED VIA: <u>Fed Ex</u>		COMMENTS: <u>FIXED FEE <input type="checkbox"/> Line Item 16 8330 for Nitroaromatics Nitroaromatics</u>		<u>John Young</u>	<u>6/29/99</u>		
SAMPLE RECEIPT				Company:		Company:	
NO. CONTAINERS		<p>These samples are being sent directly to Bourneco. If you have any questions please call, John Young 505/827-1553 x 1036. THANK YOU</p>		RECEIVED BY: 1.		RECEIVED BY: (LAB) 2.	
CUSTODY SEALS	Y/N/NA			Signature:	Time:	Signature:	Time:
RECEIVED INTACT				<u>[Signature]</u>	<u>0920</u>		
BLUF ICE/ICE				Printed Name:	Date:	Printed Name:	Date:
				<u>Kevin Louke</u>	<u>6/29/99</u>		
				Company:		Pinnacle Laboratories Inc.	
				<u>BLI</u>			

99Z441

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 6/29 Page: 1 of 1

Page 2 / 3
From 344377 393 277 1689
JU 9-99 01:45PM
Sent by: PINNACLE LABS

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	Nitroaromatics = Nitroaromatics	TOX	TOC	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)	Basis/Neutral Acid Compounds GC/MS (825/8270)	URANIUM	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
					SAMPLE ID	DATE	TIME	MATRIX	LAB ID																		
906102-01	6/25	1025	AO					X																			
-02		1050						X																			
-03		1200						X																			
-04	↓	1230	↓					X																			

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1		RELINQUISHED BY: 2		
PROJECT #: 906102	Total Number of Containers	Chain of Custody Seals	PENSACOLA - STL-FL	Signature: <i>Hancone</i>	Time: 1340	Signature:	Time:	Signature:	Time:	
PROJ. NAME: NMR	Received Intact?	STL - CT	PORTLAND - ESL-OR	Printed Name: <i>HANCONE</i>	Date: 6/29/99	Printed Name:	Date:	Printed Name:	Date:	
QC LEVEL: STD. IV	Received Good Cond./Cold	STL - NEW JERSEY	N. CREEK	Pinnacle Laboratories, Inc.		Company				
QC REQUIRED: MS MSD BLANK	LAB NUMBER:	BARRINGER	SEQUOIA	RECEIVED BY: 1		RECEIVED BY: 2				
TAT: STANDARD RUSH!!	COMMENTS:			Signature:	Time:	Signature:	Time:			
DUE DATE: 7/20				Printed Name:	Date:	Printed Name:	Date:			
RUSH SURCHARGE: -					Company		Company			
CLIENT DISCOUNT: -					Company		Company			
SPECIAL CERTIFICATION REQUIRED: YES NO				Company		Company				