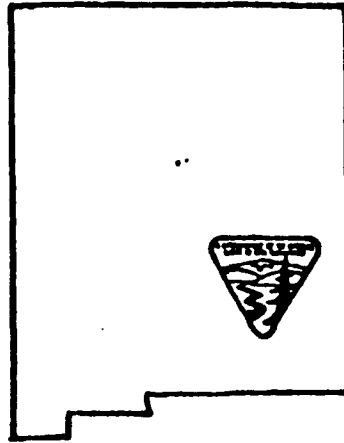


2R - 15

REPORTS

DATE:

6/16/1994



THE HEART OF THE PECOS VALLEY

FROM THE
BUREAU OF LAND MANAGEMENT'S
ROSWELL DISTRICT
IN
ROSWELL, NEW MEXICO

To: Jim Smith Fax Number: 505/887-9283

Office Code: NMED Phone Number: _____

From: Cate Cebrowski Date: 06/16/94

Office Code NM 060

Phone Number: 505-627-0272

FAX #: 505-627-0276

Number of pages to follow: 16

Message: Jim - attached are semi volatile results. I talked to Tim Chapman, SLD, yesterday and he said volatiles are on their way. Will get them to you after we receive them here. Will try to get in touch w/ Dennis McQuillen today for analyses interpretation. ☺ Thanks for your help! Cate

TO: DR. KARL FORD

FAX #: 303-236-3508

FAX#: 505-627-0238

FROM: CATE CEBROWSKI PHONE#: 505-627-0238

NO. OF PP 32

KARL:

JUST A FEW PAGES FOR YOU TO LOOK AT

+ Site Report + MAP (3pp)

+ ANALYTICAL REPORT: CHLORIDE + TDS (3pp)

1. Transport Truck
2. Ranch House Well
3. Spring

+ ANALYTICAL RPT.: VOLATILES

1. Truck (4pp)
2. Well (4pp)
3. Spring (4pp)

+ ANALYTICAL RPT: B/N/A

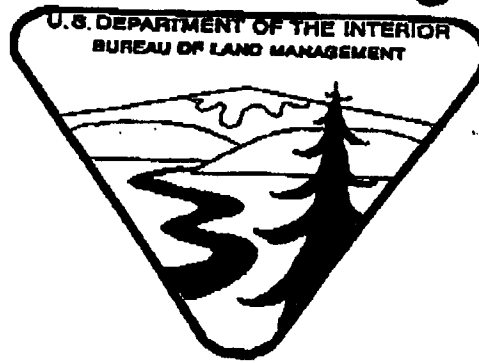
1. Truck (5pp)
2. Well (4pp)
3. Spring (4pp)

PER LAW ENFORCEMENT REQS., I MUST TELL
YOU THAT THESE REPORTS ARE NOT TO
BE RELEASED TO THE PUBLIC BUT ARE
FOR YOUR TECHNICAL REVIEW ONLY.

THANKS AGAIN, KARL!

Cate

Mailed to Karl
6/23/94

**DIVISION OF APPLIED RESOURCE SCIENCES**

SERVICE CENTER
Denver Federal Center, Building 50
P.O. Box 25047
Denver, CO 80225-0047

Date: / / TO: CATE CEBROWSKITelefax number: Telephone number: FROM: K KED**DIVISION OF APPLIED RESOURCE SCIENCES**Telefax number: 303-236-3508Telephone Number: COMMENTS:

 NUMBER OF PAGES INCLUDING COVER:

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SERVICE CENTER
DENVER FEDERAL CENTER, BUILDING 50
P.O. BOX 25047
DENVER, COLORADO 80225-0047

In Reply Refer To:
1703 (9C-212B)

Short Note Transmittal

To: Cate Cebrowski

From: Karl Ford

Subject: Sampling Data

In reviewing the data, it is apparent that the waste from the truck would have likely qualified as a RCRA hazardous waste regardless of the petroleum exclusion, because of the chlorinated VOCs present. If only you would have submitted it for TCLP (40 CFR 261.24(a)) and filtered the sample! The concentrations of carbon tetrachloride, trichloroethene and tetrachloroethene would have failed the TCLP, qualifying the material as a hazardous waste. You should determine from the concentrations and volume if a RQ was released and notify accordingly. You may be able to require cleanup based on these data.

Given the locations of the spring and well, it is not likely that contaminants would migrate that distance, unless LARGE volumes were disposed and other hydrogeological factors were suitable.

If you want to discuss or have further questions, please call me at 303 236-6622.

* Chlorinated solvents are not/should not be in produced H₂O - their presence would make H₂O non-exempt - had TCLP been run.

* "Next time"

now we need to warn company that next time caught dumping they could be prosecuted under RCRA.

Violated
solvents -
Violate
RCRA
+ caught
equipped
prosecuted
RCRA!

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 Camino de Salud, NE
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

May 17, 1994

Request
ID No. 044616ANALYTICAL REPORT
SLD Accession No. WC-94-1776Distribution☒ User 55001
☒ Submitter 63
☒ Client
☒ SLD FilesTo: James W. Rogers
B.L.M.
1717 W. Second
Roswell, NM 88202From: Water Chemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water sample submitted to this laboratory on April 27, 1994

User:Drinking Water Bureau
NM-ED Dist. #3 Office
P.O. Box 965
Las Cruces, NM 88004-0965Submitter:J. Rogers Smith
ED Field Office, Carlsbad
406 N. Guadalupe St.
Carlsbad, NM 88220

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 26-Apr-94	By: Smit...	Jims Transport
At: 14:49 hrs.	In/Near: Carlsbad	

ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
chloride	160.00		mg/L
total diss resid	3250.00		mg/L

Reviewed By: Harold P. Patterson 05/17/94
Analyst, Water Chemistry Section

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 Camino de Salud, NE
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

May 17, 1994

Request
ID No. 056645ANALYTICAL REPORT
SLD Accession No. WC-94-1777Distribution☒ User 55001
☒ Submitter 63
☒ Client
☒ SLD FilesTo: James W. Roger
B.L.M.
1717 W. Second
Roswell, NM 88202From: Water Chemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water sample submitted to this laboratory on April 27, 1994

User:Drinking Water Bureau
NM-ED Dist. #3 Office
P.O. Box 965
Las Cruces, NM 88004-0965Submitter:J. Rogers Smith
ED Field Office, Carlsbad
406 N. Guadalupe St.
Carlsbad, NM 88220

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 26-Apr-94	By: Smi . . .	Kincaid Ranch House
At: 15:45 hrs.	In/Near: Carlsbad	

ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
chloride	68.00		mg/L
total diss resid	3176.00		mg/L

Reviewed By: Harold P. Patterson 05/17/94
Analyst, Water Chemistry Section

SCIENTIFIC LABORATORY DIVISION
P.O. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505]-841-2500
WATER CHEMISTRY SECTION [505]-841-2555

May 17, 1994

Request
ID No. 044618

ANALYTICAL REPORT
SLD Accession No. WC-94-1778

Distribution

☒ User 55001
☒ Submitter 63
☒ Client
☒ SLD Files

To: James W. Rogers
B.L.M.
1717 W. 2nd
Roswell, NM 88202

From: Water Chemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water sample submitted to this laboratory on April 27, 1994

User:

Drinking Water Bureau
NM-ED Dist. #3 Office
P.O. Box 965
Las Cruces, NM 88004-0965

Submitter:

J. Rogers Smith
ED Field Office, Carlsbad
406 N. Guadalupe St.
Carlsbad, NM 88220

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 26-Apr-94	By: Smi . . .	Spring
At: 15:20 hrs.	In/Near: Carlsbad	

ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
chloride	665.00		mg/L
total diss resid	11718.00		mg/L

Reviewed By: 

Harold P. Patterson 05/17/94
Analyst, Water Chemistry Section

SCIENTIFIC LABORATORY DIVISION
P.O. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505]-841-2500
ORGANIC CHEMISTRY SECTION [505]-841-2570

June 3, 1994

Request
ID No. 044619

ANALYTICAL REPORT
SLD Accession No. OR-94-1296

Distribution

☐ User 55001
☒ Submitter 63
☒ SLD Files

To: James Rogers Smith
ED Field Office, Carlsbad
406 N. Guadalupe St.
Carlsbad, NM 88220

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water, Purgeable sample submitted to this laboratory on April 27, 1994

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 26-Apr-94	By: Smi . . .	Jims Transport
At: 14:55 hrs.	In/Near: Carlsbad	

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable [EPA-601/2] Screen {754}

Parameter	Value	Note	POL	Units
Benzene	1400.00		400.00	ppb
Toluene	1600.00		400.00	ppb
Ethylbenzene	510.00		400.00	ppb
p- & m-Xylene	1300.00		400.00	ppb
o-Xylene	760.00		400.00	ppb
1,2,4-Trimethylbenzene	440.00		400.00	ppb
Naphthalene	610.00		400.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

PQL = Practical Quantitation Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;

T = Trace (< Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____

Laboratory Remarks:

The following compounds were also observed:

COMPOUND	VALUE	NOTE	POL	UNITS
Methylene chloride	1000.0		400.0	ppb
Chloroform	520.0		400.0	ppb
Carbon tetrachloride	870.0		400.0	ppb
Trichloroethene	550.0		400.0	ppb
Tetrachloroethene	530.0		400.0	ppb

*Not quantified
associated
with oil*

The top of the water sample had a slight oil layer and the septum had a slight film of oil.

(Continued on page 2.)

Kent Sherrill

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: NM SCIENTIFIC LABORATORY DIVISION Contract: N/A
Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A
Matrix: (soil/water) Water Lab Sample ID: OR-94-01296
Sample wt/vol: 5.0 (g/mL) mL SLD Batch No: 181
Level: (low/med) Low Date Received: 04/27/94
% Moisture: not dec. N/A dec. N/A Date Extracted: N/A
Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 04/29/94
GPC Cleanup: (Y/N) No pH: Dilution Factor: 1:400
CONCENTRATION UNITS: ug/L
(ug/L or ug/Kg): ug/L

This sample was analyzed for the following compounds
using EPA Methods 601 & 602

CAS NO.	COMPOUND	CONC.	Q	PQL
67-64-1	Acetone		U	2000
71-43-2	Benzene	1400		400
108-86-1	Bromobenzene		U	400
74-97-5	Bromochloromethane		U	400
75-27-4	Bromodichloromethane		U	400
75-25-2	Bromoform		U	400
78-93-3	2-Butanone (MEK)		U	2000
104-51-8	n-Butylbenzene		U	400
135-98-8	sec-Butylbenzene		U	400
98-06-6	tert-Butylbenzene		U	400
1634-04-4	tert-Butyl methyl ether (MTBE)		U	2000
56-23-5	Carbon tetrachloride	870		400
108-90-7	Chlorobenzene		U	400
67-66-3	Chloroform	520		400
95-49-8	2-Chlorotoluene		U	400
106-43-4	4-Chlorotoluene		U	400
96-12-8	1,2-Dibromo-3-chloropropane		U	400
124-48-1	Dibromochloromethane		U	400
106-93-4	1,2-Dibromoethane		U	400
74-95-3	Dibromomethane		U	400
95-50-1	1,2-Dichlorobenzene		U	400
541-73-1	1,3-Dichlorobenzene		U	400
106-46-7	1,4-Dichlorobenzene		U	400
75-71-8	Dichlorodifluoromethane		U	400
75-34-3	1,1-Dichloroethane		U	400

(Continued on page 3.)

Rick H. Hines 841-2570
Kevin

1500
1400
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1200
1100
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700
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100
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1500
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1300
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300
200
100
0

107-06-2	1,2-Dichloroethane		U	400
75-35-4	1,1-Dichloroethene		U	400
156-59-4	cis-1,2-Dichloroethene		U	400
156-60-5	trans-1,2-Dichloroethene		U	400
78-87-5	1,2-Dichloropropane		U	400
142-28-9	1,3-Dichloropropane		U	400
590-20-7	2,2-Dichloropropane		U	400
563-58-6	1,1-Dichloropropene		U	400
1.06-01-5	cis-1,3-Dichloropropene		U	400
1.06-02-6	trans-1,3-Dichloropropene		U	400
1.0-41-4	Ethylbenzene	510		400
87-68-3	Hexachlorobutadiene		U	400
98-82-8	Isopropylbenzene		U	400
99-87-6	4-Isopropyltoluene		U	400
75-09-2	Methylene chloride	1000		400
90-12-0	1-Methylnaphthalene		U	400
91-57-6	2-Methylnaphthalene		U	400
91-20-3	Naphthalene	610		400
103-65-1	n-Propylbenzene		U	400
1.0-42-5	Styrene		U	400
630-20-6	1,1,1,2-Tetrachloroethane		U	400
79-34-5	1,1,2,2-Tetrachloroethane		U	400
127-18-4	Tetrachloroethene	530		400
109-99-9	Tetrahydrofuran (THF)		U	2000
108-88-3	Toluene	1600		400
87-61-5	1,2,3-Trichlorobenzene		U	400
1.0-82-1	1,2,4-Trichlorobenzene		U	400
71-55-6	1,1,1-Trichloroethane		U	400
79-00-5	1,1,2-Trichloroethane		U	400
79-01-6	Trichloroethene	550		400
75-69-4	Trichlorofluoromethane		U	400
96-18-4	1,2,3-Trichloropropane		U	400
95-63-6	1,2,4-Trimethylbenzene	440		400
108-67-8	1,3,5-Trimethylbenzene		U	400
75-01-4	Vinyl chloride		U	400
95-47-6	o-Xylene	760		400
N/A	p- & m-Xylene	1300		400

TENTATIVELY IDENTIFIED COMPOUNDS DATA SHEET

The following compounds were tentatively identified by Mass Spec:

CAS NO.	COMPOUND	RT	EST. CONC.	O
---------	----------	----	------------	---

(Continued on page 4.)

620-14-4	1-Ethyl-3-methyl-benzene	18.79	1600	964
108-87-2	Methyl Cyclohexane	12.38	1400	936

- * CONC = CONCENTRATION DETERMINED
PQL = Practical Quantitation Limit (Approximately 10 times MDL)
* Q = Qualifier Definitions:
B - Indicates compound was detected in the Lab Blank as well as in the sample.
D - Indicates value taken from a secondary (diluted) sample analysis.
E - Indicates compound concentration exceeded the range of the standard curve.
J - Indicates an estimated value for tentatively identified compounds, or for compounds detected and identified but present at a concentration less than the quantitation limit.
N - Indicates that more than one peak was used for quantitation.
U - Indicates compound was analyzed for, but not detected above the concentration listed (Quantitation Limit).

QUALITY CONTROL SUMMARY FOR VOLATILES SCREEN

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No Compounds Detected	

SURROGATE RECOVERIES:

SURROGATE	CONCENTRATION	% RECOVERY
Bromofluorobenzene	25.0 ppb	103.0
2-Bromo-1-chloropropane	25.0 ppb	95.0

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
Chloroethene	20.0 ppb	48.0
Napthalene	10.0 ppb	66.0

Analyst:

Patrick F. Basile
Patrick F. Basile
Analyst, Organic Chemistry

Reviewed By:

Richard F. Meyerhein
Richard F. Meyerhein 05/19/94
Supervisor, Organic Chemistry Section

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106
Organic Chemistry Section - Telephone: (505) 841-2570

SLD No. 0R94 1290

Date Received: 4-27-94

Request ID No. 044619-C

User Code #: 35001 Request ID No.:

Priority Code #: 3

Facility Name: BLM County: EDDY City: CARLSBAD State: NM

Sample Location: JIMMY'S TRANSPORT

Collected By: JAMES SMITH On: 94/04/26 At: 1145 hrs.
First Last (505) 885-9023 Date: (YY/MM/DD) Time: 24 hr. clock 000 pm = 1500 hrs.

Codes: 063 Submitter WSS # Organization Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

Report To: JAMES W Rogers Phone #: (505) 627-0272

Address: BLM 1717 W Second Roswell NM 88202

Field Data: pH: Conductivity: umhos/cm @ Temperature: Chlorine Residual: mg/l, Flow:

Sample Source: Stream Lake Drain Pool WWTP Entry Point to Distribution Well; Depth: Spring Distribution Other: TANK TRUCK

Sample Type: Water Unchlorinated Wastewater Chlorinated Soil Food Other Preservation: NP No Preservation; Sample stored at room temperature P-ice Sample stored in an ice bath (Not Frozen) P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml) P-HgCl2 Sample Preserved with 20 mg/l Mercuric Chloride Other

Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens: (753) Aliphatic Headspace (Qualitative Screen) (754) Aromatic & Halogenated Purgeables (EPA 601/2) (765) Mass Spectrometer Purgeables (EPA 624) (766) SDWA Total Trihalomethanes (EPA 501.1) (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2) (775) SDWA VOC's II [EDB & DBCP] (EPA 504) (790) Composite Sample for Analysis No. Other Specific Compounds or Classes: Semivolatile Screens: (755) Base/Neutral Extractables (EPA 625) (756) Base/Neutral/Acid Extractables (EPA 8270) (772) Carbamate Pesticides (EPA 531.1) (758) Herbicides, Chlorophenoxy Acid (EPA 515.1) (759) Herbicides, Triazines (EPA 507) (751) Hydrocarbon Fuel Screen (EPA M-8015) (760) Organochlorine Pesticides (EPA 505) (761) Organophosphate Pesticides (EPA 507) (767) Polychlorinated Biphenyls (PCB's) in Oil (762) SDWA Synthetic Org. Compds. (SLD 758/760) (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: Report sent to JAMES SMITH NMED CARLSBAD - 406 N. Guadalupe, Carlsbad NM in addition to 13 above

SCIENTIFIC LABORATORY DIVISION
P. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505]-841-2500
ORGANIC CHEMISTRY SECTION [505]-841-2570

May 19, 1994

Request
ID No. 056646

ANALYTICAL REPORT
SLD Accession No. OR-94-1297

Distribution

☐ User 55001
☒ Submitter 63
☒ SLD Files

To: James Rogers
BLM
1717 W. Second
Roswell, NM 88202

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water, Purgeable sample submitted to this laboratory on April 27, 1994

DEMOGRAPHIC DATA

COLLECTION	LOCATION
On: 26-Apr-94 By: Smi . . .	Kincaid Ranch House
At: 15:45 hrs. In/Near: Carlsbad	

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable [EPA-601/2] Screen {754}

Parameter	Value	Note	POL	Units
EPA 601/2 Volatiles (60)	0.00	N	1.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

PQL = Practical Quantitation Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____

Laboratory Remarks:

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: NM SCIENTIFIC LABORATORY DIVISION	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: N/A
Matrix: (soil/water) Water	Lab Sample ID: OR-94-01297
Sample wt/vol: 5.0 (g/mL) mL	SLD Batch No: 181
Level: (low/med) Low	Date Received: 04/27/94
% Moisture: not dec. N/A dec. N/A	Date Extracted: N/A
Extraction: (SepF/Cont/Sonc) N/A	Date Analyzed: 04/29/94
GPC Cleanup: (Y/N) No pH: _____	Dilution Factor: 1
	CONCENTRATION UNITS:
	(ug/L or ug/Kg): _____ ug/L

This sample was analyzed for the following compounds
using EPA Methods 601 & 602

CAS NO.	COMPOUND	CONC.	O	POL
67-64-1	Acetone		U	5.0

(Continued on page 2.)

71-43-2	Benzene	U	1.0
108-86-1	Bromobenzene	U	1.0
74-97-5	Bromochloromethane	U	1.0
75-27-4	Bromodichloromethane	U	1.0
75-25-2	Bromoform	U	1.0
78-93-3	2-Butanone (MEK)	U	5.0
104-51-8	n-Butylbenzene	U	1.0
135-98-8	sec-Butylbenzene	U	1.0
98-06-6	tert-Butylbenzene	U	1.0
1634-04-4	tert-Butyl methyl ether (MTBE)	U	5.0
56-23-5	Carbon tetrachloride	U	1.0
108-90-7	Chlorobenzene	U	1.0
67-66-3	Chloroform	U	1.0
95-49-8	2-Chlorotoluene	U	1.0
106-43-4	4-Chlorotoluene	U	1.0
96-12-8	1,2-Dibromo-3-chloropropane	U	1.0
124-48-1	Dibromochloromethane	U	1.0
106-93-4	1,2-Dibromoethane	U	1.0
74-95-3	Dibromomethane	U	1.0
95-50-1	1,2-Dichlorobenzene	U	1.0
541-73-1	1,3-Dichlorobenzene	U	1.0
106-46-7	1,4-Dichlorobenzene	U	1.0
75-71-8	Dichlorodifluoromethane	U	1.0
75-34-3	1,1-Dichloroethane	U	1.0
107-06-2	1,2-Dichloroethane	U	1.0
75-35-4	1,1-Dichloroethene	U	1.0
156-59-4	cis-1,2-Dichloroethene	U	1.0
156-60-5	trans-1,2-Dichloroethene	U	1.0
78-87-5	1,2-Dichloropropane	U	1.0
142-28-9	1,3-Dichloropropane	U	1.0
590-20-7	2,2-Dichloropropane	U	1.0
563-58-6	1,1-Dichloropropene	U	1.0
1006-01-5	cis-1,3-Dichloropropene	U	1.0
1006-02-6	trans-1,3-Dichloropropene	U	1.0
100-41-4	Ethylbenzene	U	1.0
87-68-3	Hexachlorobutadiene	U	1.0
98-82-8	Isopropylbenzene	U	1.0
99-87-6	4-Isopropyltoluene	U	1.0
75-09-2	Methylene chloride	U	1.0
90-12-0	1-Methylnaphthalene	U	1.0
91-57-6	2-Methylnaphthalene	U	1.0
91-20-3	Naphthalene	U	1.0

(Continued on page 3.)

103-65-1	n-Propylbenzene		U	1.0
100-42-5	Styrene		U	1.0
630-20-6	1,1,1,2-Tetrachloroethane		U	1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
127-18-4	Tetrachloroethene		U	1.0
109-99-9	Tetrahydrofuran (THF)		U	5.0
108-88-3	Toluene		U	1.0
87-61-5	1,2,3-Trichlorobenzene		U	1.0
120-82-1	1,2,4-Trichlorobenzene		U	1.0
71-55-6	1,1,1-Trichloroethane		U	1.0
79-00-5	1,1,2-Trichloroethane		U	1.0
79-01-6	Trichloroethene		U	1.0
75-69-4	Trichlorofluoromethane		U	1.0
96-18-4	1,2,3-Trichloropropane		U	1.0
95-63-6	1,2,4-Trimethylbenzene		U	1.0
108-67-8	1,3,5-Trimethylbenzene		U	1.0
75-01-4	Vinyl chloride		U	1.0
95-47-6	o-Xylene		U	1.0
N/A	p- & m-Xylene		U	1.0

* CONC = CONCENTRATION DETERMINED

PQL = Practical Quantitation Limit (Approximately 10 times MDL)

* Q = Qualifier Definitions:

- B - Indicates compound was detected in the Lab Blank as well as in the sample.
- D - Indicates value taken from a secondary (diluted) sample analysis.
- E - Indicates compound concentration exceeded the range of the standard curve.
- J - Indicates an estimated value for tentatively identified compounds, or for compounds detected and identified but present at a concentration less than the quantitation limit.
- N - Indicates that more than one peak was used for quantitation.
- U - Indicates compound was analyzed for, but not detected above the concentration listed (Quantitation Limit).

QUALITY CONTROL SUMMARY FOR VOLATILES SCREEN

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected

(Continued on page 4.)

in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No Compounds Detected	

SURROGATE RECOVERIES:

SURROGATE	CONCENTRATION	% RECOVERY
Bromofluorobenzene	25.0 ppb	105.0
2-Bromo-1-chloropropane	25.0 ppb	103.0

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
Chloroethene	20.0 ppb	48.0
Naphthalene	10.0 ppb	66.0

Analyst:

Patrick F. Basile
Patrick F. Basile
Analyst, Organic Chemistry

Reviewed By:

Richard F. Meyerhein
Richard F. Meyerhein 05/19/94
Supervisor, Organic Chemistry Section

Date Received: 4-27-94

Request ID No. 056646-C

Priority Code #: 3

User Code #: S.S.O.O.L

Request ID No.:

Facility Name: BLM

County: EDDY

City: CARLSBAD

State: N.M.

Sample Location: K.I.N.C.A.I.D. R.A.N.C.H. H.O.M.E.

Collected By: JAMES S. SMITH On: 94/04/26 At: 15:15 hrs.
First Last (505) 885-9023 Date: (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.

Codes: Submitter: WSS # Organization

Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

Report Name: JAMES W Rogers Address: BLM

Phone #: (505) 627-0272

City, State Zip: Roswell NM 88202

Sampling Information: ☒ Grab ☐ Composite ☐ Flow Proportioned ☐ Equal Aliquot ☐ Sample Split w/Permittee ☐ Chain of Custody

Field Data: pH: Conductivity: umhos/cm @ Temperature: Chlorine Residual: mg/l, Flow:

Sample Source: ☐ Stream ☐ Lake ☐ Drain ☐ Pool ☐ WWTP ☐ Entry Point to Distribution ☒ Well; Depth: 160 ☐ Spring ☐ Distribution ☐ Other:

Field Remarks:

Sample Type: ☒ Water ☐ Wastewater ☐ Soil ☐ Food ☐ Other ☒ Unchlorinated ☐ Chlorinated
This form accompanies a single sample consisting of:
2 septum vial(s) (volume = 40 ml ea.)
glass jug(s) (volume = ml ea.)
(volume =)

Preservation: ☐ NP No Preservation; Sample stored at room temperature ☐ P-ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml) ☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride ☐ Other

Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ (753) Aliphatic Headspace (Qualitative Screen)
- ☒ (754) Aromatic & Halogenated Purgeables (EPA 601/2)
- ☐ (765) Mass Spectrometer Purgeables (EPA 624)
- ☐ (766) SDWA Total Trihalomethanes (EPA 501.1)
- ☐ (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
- ☐ (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
- ☐ (790) Composite Sample for Analysis No.

Other Specific Compounds or Classes:

- ☐ ()
- ☐ ()

Semivolatile Screens:

- ☐ (755) Base/Neutral Extractables (EPA 625)
- ☐ (756) Base/Neutral/Acid Extractables (EPA 8270)
- ☐ (772) Carbamate Pesticides (EPA 531.1)
- ☐ (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
- ☐ (759) Herbicides, Triazine (EPA 507)
- ☐ (751) Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ (760) Organochlorine Pesticides (EPA 505)
- ☐ (761) Organophosphate Pesticides (EPA 507)
- ☐ (767) Polychlorinated Biphenyls (PCB's) in Oil
- ☐ (762) SDWA Synthetic Org. Compds. (SLD 758/760)
- ☐ (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: copy to JAMES D. SMITH
NMED - CARLSBAD
406 N. Guadalupe
CARLSBAD NM 88220

SCIENTIFIC LABORATORY DIVISION
P. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505]-841-2500
ORGANIC CHEMISTRY SECTION [505]-841-2570

June 13, 1994

Request
ID No. 056643

ANALYTICAL REPORT
SLD Accession No. OR-94-1298

Distribution

☐ User 55001
☒ Submitter 63
☒ SLD Files

To: James Rogers
BLM
1717 W. Second
Roswell, NM 88202

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water, Purgeable sample submitted to this laboratory on April 27, 1994

DEMOGRAPHIC DATA

COLLECTION	LOCATION
On: 26-Apr-94 By: Smi . . . At: 15:20 hrs. In/Near: Carlsbad	Spring

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable [EPA-601/2] Screen {754}

Parameter	Value	Note	PQL	Units
EPA 601/2 Volatiles (60)	0.00	N	5.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

PQL = Practical Quantitation Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____

Laboratory Remarks:

This sample was first analyzed on 4/29/94 and the analytical results were judged unacceptable by the analyst. The sample was re-analyzed on 5/09/94 yielding the results reported on this form.

Unable to achieve a lower detection limit due to quenching from the sample.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: NM SCIENTIFIC LABORATORY DIVISION	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: N/A
Matrix: (soil/water) Water	Lab Sample ID: OR-94-01298
Sample wt/vol: 5.0 (g/mL) mL	SLD Batch No: 181
Level: (low/med) Low	Date Received: 04/27/94
% Moisture: not dec. N/A dec. N/A	Date Extracted: N/A
Extraction: (SepF/Cont/Sonc) N/A	Date Analyzed: 04/29/94
GPC Cleanup: (Y/N) No pH: _____	Dilution Factor: 1
CONCENTRATION UNITS:	

(Continued on page 2.)

(ug/L or ug/Kg) : _____ ug/L

This sample was analyzed for the following compounds
 using EPA Methods 601 & 602

CAS NO.	COMPOUND	CONC.	O	POL
67-64-1	Acetone		U	25.0
71-43-2	Benzene		U	5.0
108-86-1	Bromobenzene		U	5.0
74-97-5	Bromochloromethane		U	5.0
75-27-4	Bromodichloromethane		U	5.0
75-25-2	Bromoform		U	5.0
78-93-3	2-Butanone (MEK)		U	25.0
104-51-8	n-Butylbenzene		U	5.0
135-98-8	sec-Butylbenzene		U	5.0
98-06-6	tert-Butylbenzene		U	5.0
1634-04-4	tert-Butyl methyl ether (MTBE)		U	25.0
56-23-5	Carbon tetrachloride		U	5.0
108-90-7	Chlorobenzene		U	5.0
67-66-3	Chloroform		U	5.0
95-49-8	2-Chlorotoluene		U	5.0
106-43-4	4-Chlorotoluene		U	5.0
96-12-8	1,2-Dibromo-3-chloropropane		U	5.0
124-48-1	Dibromochloromethane		U	5.0
106-93-4	1,2-Dibromoethane		U	5.0
74-95-3	Dibromomethane		U	5.0
95-50-1	1,2-Dichlorobenzene		U	5.0
541-73-1	1,3-Dichlorobenzene		U	5.0
106-46-7	1,4-Dichlorobenzene		U	5.0
75-71-8	Dichlorodifluoromethane		U	5.0
75-34-3	1,1-Dichloroethane		U	5.0
107-06-2	1,2-Dichloroethane		U	5.0
75-35-4	1,1-Dichloroethene		U	5.0
156-59-4	cis-1,2-Dichloroethene		U	5.0
156-60-5	trans-1,2-Dichloroethene		U	5.0
78-87-5	1,2-Dichloropropane		U	5.0
142-28-9	1,3-Dichloropropane		U	5.0
590-20-7	2,2-Dichloropropane		U	5.0
563-58-6	1,1-Dichloropropene		U	5.0
1006-01-5	cis-1,3-Dichloropropene		U	5.0
1006-02-6	trans-1,3-Dichloropropene		U	5.0
100-41-4	Ethylbenzene		U	5.0
87-68-3	Hexachlorobutadiene		U	5.0

(Continued on page 3.)

98-82-8	Isopropylbenzene		U	5.0
99-87-6	4-Isopropyltoluene		U	5.0
75-09-2	Methylene chloride		U	5.0
90-12-0	1-Methylnaphthalene		U	5.0
91-57-6	2-Methylnaphthalene		U	5.0
91-20-3	Naphthalene		U	5.0
103-65-1	n-Propylbenzene		U	5.0
100-42-5	Styrene		U	5.0
630-20-6	1,1,1,2-Tetrachloroethane		U	5.0
79-34-5	1,1,2,2-Tetrachloroethane		U	5.0
127-18-4	Tetrachloroethene		U	5.0
109-99-9	Tetrahydrofuran (THF)		U	25.0
108-88-3	Toluene		U	5.0
87-61-5	1,2,3-Trichlorobenzene		U	5.0
120-82-1	1,2,4-Trichlorobenzene		U	5.0
71-55-6	1,1,1-Trichloroethane		U	5.0
79-00-5	1,1,2-Trichloroethane		U	5.0
79-01-6	Trichloroethene		U	5.0
75-69-4	Trichlorofluoromethane		U	5.0
96-18-4	1,2,3-Trichloropropane		U	5.0
95-63-6	1,2,4-Trimethylbenzene		U	5.0
108-67-8	1,3,5-Trimethylbenzene		U	5.0
75-01-4	Vinyl chloride		U	5.0
95-47-6	o-Xylene		U	5.0
N/A	p- & m-Xylene		U	5.0

* CONC = CONCENTRATION DETERMINED

PQL = Practical Quantitation Limit (Approximately 10 times MDL)

* Q = Qualifier Definitions:

B - Indicates compound was detected in the Lab Blank as well as in the sample.

D - Indicates value taken from a secondary (diluted) sample analysis.

E - Indicates compound concentration exceeded the range of the standard curve.

J - Indicates an estimated value for tentatively identified compounds, or for compounds detected and identified but present at a concentration less than the quantitation limit.

N - Indicates that more than one peak was used for quantitation.

U - Indicates compound was analyzed for, but not detected above the concentration listed (Quantitation Limit).

(Continued on page 4.)

QUALITY CONTROL SUMMARY FOR VOLATILES SCREEN

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No Compounds Detected	

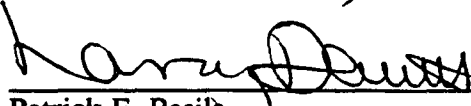
SURROGATE RECOVERIES:

SURROGATE	CONCENTRATION	% RECOVERY
Bromofluorobenzene	25.0 ppb	104.0
2-Bromo-1-chloropropane	25.0 ppb	95.0

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
Chloroethene	20.0 ppb	48.0
Naphthalene	10.0 ppb	66.0

Analyst:


Patrick F. Basile
Analyst, Organic Chemistry

Reviewed By:


Richard F. Meyerhein 05/19/94
Supervisor, Organic Chemistry Section

Date Received: 4-27-94

Request ID No. 056643-C

User Code #: 55001

Request ID No.: 3

Priority Code #: 3

W.T. or T. call ED-SLD Coordinator

Facility Name: BLM

County: eddy

City: CARLSBAD

State: N.M.

Sample Location: SPRING

Collected By: JAMES S. SMITH On: 9/1/04/26 At: 11:52:00 hrs.
First Last Initial Date (YY/MM/DD) Time: 24 hr. clock 5:00 pm = 1500 hrs.

Codes: 063 Submitter WSS # Organization

Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

Report to: JAMES W Rogers BLM 1717 W Second Roswell NM 88202

Phone #: (505) 827-0272

Sampling Information: Sample Purpose: ☒ Grab ☐ Composite ☐ Compliance ☐ Flow Proportioned ☐ NMED Monitoring ☐ Equal Aliquot ☐ Confirmation ☐ Sample Split w/Permittee ☒ Special ☐ Chain of Custody

Field Data: pH: Conductivity: umhos/cm @ Temperature: °C Chlorine Residual: mg/l, Flow:

Sample Source: ☐ Stream ☐ Lake ☐ Drain ☐ Pool ☐ WWTP ☐ Entry Point to Distribution ☐ Well; Depth: ☒ Spring ☐ Distribution ☐ Other:

Field Remarks:

Sample Type: ☒ Water ☐ Wastewater ☒ Unchlorinated ☐ Chlorinated ☐ Soil ☐ Food ☐ Other This form accompanies a single sample consisting of: 2 septum vial(s) (volume = 40 ml ea.) glass jug(s) (volume = ml ea.) (volume =)

Preservation: ☐ NP No Preservation; Sample stored at room temperature ☐ P-Ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml) ☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride ☐ Other

Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ (753) Aliphatic Headspace (Qualitative Screen)
- ☒ (754) Aromatic & Halogenated Purgeables (EPA 601/2)
- ☐ (765) Mass Spectrometer Purgeables (EPA 624)
- ☐ (766) SDWA Total Trihalomethanes (EPA 501.1)
- ☐ (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
- ☐ (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
- ☐ (790) Composite Sample for Analysis No.

Other Specific Compounds or Classes:

☐ () ☐ ()

Semivolatile Screens:

- ☐ (755) Base/Neutral Extractables (EPA 625)
- ☐ (756) Base/Neutral/Acid Extractables (EPA 8270)
- ☐ (772) Carbamate Pesticides (EPA 531.1)
- ☐ (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
- ☐ (759) Herbicides, Triazine (EPA 507)
- ☐ (751) Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ (760) Organochlorine Pesticides (EPA 505)
- ☐ (761) Organophosphate Pesticides (EPA 507)
- ☐ (767) Polychlorinated Biphenyls (PCB's) in Oil
- ☐ (762) SDWA Synthetic Org. Cmpds. (SLD 758/760)
- ☐ (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: Copy to JAMES D SMITH NMED-CARLSBAD 406 N Guadalupe CARLSBAD, NM 88220

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 Camino de Salud, NE
[505]-841-2500

ORGANIC CHEMISTRY SECTION [505]-841-2570

May 24, 1994

Request
ID No. 044617ANALYTICAL REPORT
SLD Accession No. OR-94-1299Distribution☐ User 55001
☒ Submitter 63
☒ SLD FilesTo: James Rogers
BLM
1717 W. Second
Roswell, NM 88202From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water, Purgeable sample submitted to this laboratory on April 27, 1994

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 26-Apr-94	By: Smi . . .	Jims Transport
At: 15:00 hrs.	In/Near: Carlsbad	

ANALYTICAL RESULTS: Base/Neut./Acid Extractable [EPA-8270] Screen {756}

Parameter	Value	Note	PQL	Units
Naphthalene	75.20		10.00	ppb
2-Methylnaphthalene	93.20		10.00	ppb
Phenanthrene	19.20		10.00	ppb
Anthracene	15.00		10.00	ppb
Bis(2-ethylhexyl)phthalate	59.80		10.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

PQL = Practical Quantitation Level.

A = Approximate Value; N = None/Detected above Detection Limit; P = Compound Present, but not quantified;
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____Laboratory Remarks:

Eight unidentified peaks observed on GC/MS with retention times of 24.05, 13.56, 28.36, 28.53, 28.69, 28.16, 28.25, and 28.62.

Numerous hydrocarbons in the C11 to C40 range with an approximate total concentration of 200 (ug/ml).

B/N/A EXTRACTABLE ANALYSIS DATA SHEET

Lab Name: NM SCIENTIFIC LABORATORY DIVISION	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: N/A
Matrix: (soil/water) Water	Lab Sample ID: OR-94-1299
Sample wt/vol: 860 (g/mL) mL	SLD Batch No: 177
Level: (low/med/high) Low	Date Received: 4/27/94
% Moisture: not dec. N/A dec. _____	Date Extracted: 4/28/94

(Continued on page 2.)

ANALYTICAL REPORT
SLD Accession No. OR-94-1299
Continuation, Page 2 of 4

Extraction: (SepF/Cont/Sonc) SepF
GPC Cleanup: (Y/N) No pH: N/A

Date Analyzed: 4/29/94
Dilution Factor: 10
CONCENTRATION UNITS: ug/L
(ug/L or ug/Kg): ug/L

This sample was analyzed for the following compounds
using EPA Method 8270

CAS NO.	COMPOUND	CONC.	O	POL
83-32-9	Acenaphthene		U	10.0
208-96-8	Acenaphthylene		U	10.0
120-12-7	Anthracene	15.0 ppb		10.0
103-33-3	Azobenzene		U	10.0
92-87-5	Benzidine		U	10.0
65-85-0	Benzoic acid		U	50.0
56-55-3	Benzo(a)anthracene		U	10.0
205-99-2	Benzo(b)fluoranthene		U	20.0
207-08-9	Benzo(k)fluoroanthene		U	20.0
191-24-2	Benzo(g,h,i)perylene		U	20.0
50-32-8	Benzo(a)pyrene		U	20.0
100-51-6	Benzyl alcohol		U	10.0
111-91-1	Bis(2-chloroethoxy)methane		U	10.0
111-44-4	Bis(2-chloroethyl)ether		U	10.0
39638-32-9	Bis(2-chloroisopropyl)ether		U	10.0
117-81-7	Bis(2-ethylhexyl)phthalate	59.8		10.0
101-55-3	4-Bromophenylphenyl ether		U	10.0
85-68-7	Butylbenzyl phthalate		U	10.0
106-47-8	4-Chloroaniline		U	20.0
91-58-7	2-Chloronaphthalene		U	10.0
59-50-7	4-Chloro-3-methylphenol		U	10.0
95-57-8	2-Chlorophenol		U	10.0
7005-72-3	4-Chlorophenylphenyl ether		U	10.0
218-01-9	Chrysene		U	10.0
53-70-3	Dibenz(a,h)anthracene		U	10.0
132-64-9	Dibenzofuran		U	10.0
84-74-2	Di-n-butyl phthalate		U	10.0
95-50-1	1,2-Dichlorobenzene		U	10.0
541-73-1	1,3-Dichlorobenzene		U	10.0
106-46-7	1,4-Dichlorobenzene		U	10.0
91-94-1	3,3'-Dichlorobenzidine		U	10.0
120-83-2	2,4-Dichlorophenol		U	10.0
84-66-2	Diethylphthalate		U	10.0
105-67-9	2,4-Dimethylphenol		U	10.0

(Continued on page 3.)

ANALYTICAL REPORT
 SLD Accession No. OR-94-1299
 Continuation, Page 3 of 4

131-11-3	Dimethylphthalate		U	10.0
534-52-1	4,6-Dinitro-2-methylphenol		U	30.0
51-28-5	2,4-Dinitrophenol		U	100.0
121-14-2	2,4-Dinitrotoluene		U	10.0
606-20-2	2,6-Dinitrotoluene		U	10.0
117-84-0	Di-n-octyl phthalate		U	10.0
206-44-0	Fluoranthene		U	10.0
86-73-7	Fluorene		U	10.0
118-74-1	Hexachlorobenzene		U	10.0
87-68-3	Hexachlorobutadiene		U	50.0
77-47-4	Hexachlorocyclopentadiene		U	50.0
67-72-1	Hexachloroethane		U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene		U	10.0
78-59-1	Isophorone		U	10.0
91-57-6	2-Methylnaphthalene	93.2		10.0
95-48-7	2-Methylphenol		U	10.0
106-44-5	4-Methylphenol		U	10.0
91-20-3	Naphthalene	75.2		10.0
88-74-4	2-Nitroaniline		U	10.0
99-09-2	3-Nitroaniline		U	100.0
100-01-6	4-Nitroaniline		U	50.0
98-95-3	Nitrobenzene		U	10.0
88-75-5	2-Nitrophenol		U	10.0
100-02-7	4-Nitrophenol		U	100.0
86-30-6	N-nitrosodiphenylamine		U	10.0
62-75-9	N-nitrosodimethylamine		U	400.0
621-64-7	N-nitroso-di-n-propylamine		U	10.0
87-86-5	Pentachlorophenol		U	30.0
85-01-8	Phenanthrene		U	10.0
108-95-2	Phenol	19.2		10.0
129-00-0	Pyrene		U	10.0
120-82-1	1,2,4-Trichlorobenzene		U	10.0
95-95-4	2,4,5-Trichlorophenol		U	10.0
88-06-2	2,4,6-Trichlorophenol		U	10.0

TENTATIVELY IDENTIFIED COMPOUNDS DATA SHEET

The following compounds were tentatively identified by Mass Spec:

CAS NO.	COMPOUND	MATCH	RT	EST. CONC.	O
4337-65-9	bis(2-ethylhexyl)adipate	800	32.85	300	
10544-50-0	sulfur	709	28.47	67	
108-38-3	1,3-dimethylbenzene	895	8.04	30	

(Continued on page 4.)

ANALYTICAL REPORT
SLD Accession No. OR-94-1299
Continuation, Page 4 of 4

7098-21-7	tritetracontane	806	27.94	22	
6624-79-9	1-dotricontanol	747	19.93	19	
55124-80-6	2,6,10,14-tetramethyl- nonadecane	720	23.81	17	
106-42-3	1,4-dimethylbenzene	890	8.61	16	
100-41-4	ethylbenzene	828	7.86	15	
54833-48-6	2,6,10,15-tetrahepta- decane	741	22.95	15	

- * CONC = CONCENTRATION DETERMINED
PQL = Practical Quantitation Limit (Approximately 10 times MDL)
* Q = Qualifier Definitions:
B - Indicates compound was detected in the Lab Blank as well as in the sample.
D - Indicates value taken from a secondary (diluted) sample analysis.
E - Indicates compound concentration exceeded the range of the standard curve.
J - Indicates an estimated value for tentatively identified compounds, or for compounds detected and identified but present at a concentration less than the practical quantitation limit.
N - Indicates that more than one peak was used for quantitation.
U - Indicates compound was analyzed for, but not detected.

QUALITY CONTROL SUMMARY FOR SEMIVOLATILES SCREEN

DATE EXTRACTED:

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No compounds detected	.

SURROGATE RECOVERIES:

SURROGATE		CONCENTRATION	% RECOVERY
2-Fluorophenol	(A)	46 ppb	46.0
Phenol-d6	(A)	41 ppb	41.0
2,4,6-Tribromophenol	(A)	138 ppb	138.0
Nitrobenzene-d5	(B/N)	20 ppb	40.0

(Continued on page 5.)

ANALYTICAL REPORT
SLD Accession No. OR-94-1299
Continuation, Page 5 of 4

2-Fluorobiphenyl	(B/N)	23 ppb	46.0
Terphenyl-d14	(B/N)	25 ppb	50.0

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were within EPA SW-846 criteria with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
----------	---------------	------------

Analyst: <u>T.H.C.</u>	Reviewed By: <u>[Signature]</u>
Timothy H. Chapman	Richard F. Meyerhein 05/13/94
Analyst, Organic Chemistry	Supervisor, Organic Chemistry Section

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2577

SLD No.

OR94 1299 C

Date

Received: 4-27-94

Request ID No. 044617-C

4 Priority Code #: 3

If T or T, call ED-SLD Coordinator

5 Facility Name: BLM

6 County: EDDY

7 City: CARLSBAD

8 State: NM

9 Sample Location: J. J. M. S. T. R. A. N. S. P. O. R. T.

10 Collected By: JAMES S. M. I. T. H. On: 99/04/26 At: 11500 hrs.
First Last (505) 885-9023 Date: (YY/MM/DD) Time: 24 hr. clock: 2400 pm = 1900 hrs.

11 Codes: 0, 6, 3 Submitter WSS # Organization

12 Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

13 Report To: JAMES W. Rogers 14 Phone #: (505) 627-0272

15 Sampling Information: Sample Purpose: ☒ Grab ☐ Composite ☐ Compliance ☐ NMED Monitoring ☐ Confirmation ☒ Special ☐ Flow Proportioned ☐ Equal Aliquot ☐ Sample Split w/Permittee ☐ Chain of Custody

16 Field Data: pH: Conductivity: umhos/cm @ Temperature: Chlorine Residual: mg/l. Flow:

17 Sample Source: ☐ Stream ☐ Lake ☐ Drain ☐ Pool ☒ WWTP ☐ Entry Point to Distribution ☐ Well; Depth: ☐ Spring ☐ Distribution ☒ Other: TANK TRUCK

18 Field Remarks:

19 Sample Type: ☒ Water ☐ Wastewater ☒ Unchlorinated ☐ Chlorinated ☐ Soil ☐ Food ☐ Other
This form accompanies a single sample consisting of:
septum vial(s) (volume = ml ea.)
2 glass jug(s) (volume = 1000 ml ea.)
(volume =)20 Preservation: ☐ NP No Preservation; Sample stored at room temperature
☒ P-Ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☐ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
☐ Other

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐
- (753) Aliphatic Headspace (Qualitative Screen)
-
- ☐
- (754) Aromatic & Halogenated Purgeables (EPA 601/2)
-
- ☐
- (765) Mass Spectrometer Purgeables (EPA 624)
-
- ☐
- (766) SDWA Total Trihalomethanes (EPA 501.1)
-
- ☐
- (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
-
- ☐
- (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
-
- ☐
- (790) Composite Sample for Analysis No.

Other Specific Compounds or Classes:

☐ {
☐ {

Semivolatile Screens:

- ☐
- (755) Base/Neutral Extractables (EPA 625)
-
- ☒
- (756) Base/Neutral/Acid Extractables (EPA 8270)
-
- ☐
- (772) Carbamate Pesticides (EPA 531.1)
-
- ☐
- (758) Herbicides, Chlorophenol/Acid (EPA 515.1)
-
- ☐
- (759) Herbicides, Triazines (EPA 507)
-
- ☐
- (751) Hydrocarbon Fuel Screen (EPA M-8015)
-
- ☒
- (760) Organochlorine Pesticides (EPA 505)
-
- ☐
- (761) Organophosphate Pesticides (EPA 507)
-
- ☐
- (767) Polychlorinated Biphenyls (PCB's) in Oil
-
- ☐
- (762) SDWA Synthetic Org. Compds. (SLD 758/760)
-
- ☐
- (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: Copy of Report to JAMES D. SMITH
NMED CARLSBAD
406 N. Guadalupe
Carlsbad NM 88220

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2577

SLD No. 0R94 1300 C

Date Received: 4-27-94

Request ID No. 056647-C

Priority Code #: 2

(If 11 or 12, call ED-SLD Coordinator)

User Code #: 5,5,0,0,1

Request ID No.: 3

Facility Name: BLM

County: EDDY

City: CARLSBAD

State: N.M.

Sample Location: K.I.N.G, I.D. R.A.N.C.H. H.O.U.S.E.

Collected By: JAMES S.M. TH On: 94/04/26 At: 15:45 hrs.
First Last Initial Date (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.

Codes: 0,6,3 Submitter WSS # Organization

Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

Report To: JAMES W Roguo

Phone #: (505) 627-0272

Address: BLM
1717 W Second

City, State Zip: Roswell NM 88202

Sampling Information:
Sample Purpose: ☒ Grab ☐ Composite (Composite Time Period)
☐ Compliance ☐ Flow Proportioned
☐ NMED Monitoring ☐ Equal Aliquot
☐ Confirmation ☐ Sample Split w/Permittee
☒ Special ☐ Chain of Custody

Field Data: pH: Conductivity: umhos/cm @ Temperature: Chlorine C. Residual: mg/l, Flow:

17 Sample Source:
☐ Stream ☐ Entry Point to Distribution
☐ Lake ☒ Well; Depth: 160
☐ Drain ☐ Spring
☐ Pool ☐ Distribution
☒ WWTP ☐ Other:

18 Field Remarks:

19 Sample Type: ☒ Water ☒ Unchlorinated
☐ Wastewater ☐ Chlorinated
☐ Soil ☐ Food ☐ Other

20 Preservation:

☐ NP No Preservation; Sample stored at room temperature
☒ P-ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☐ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
☐ OtherThis form accompanies a single sample consisting of:
- septum vial(s) (volume = ml ea.)
2 - glass jug(s) (volume = 1000 ml ea.)
(volume =)

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐
- (753) Aliphatic Headspace (Qualitative Screen)
-
- ☐
- (754) Aromatic & Halogenated Purgeables (EPA 601/2)
-
- ☐
- (765) Mass Spectrometer Purgeables (EPA 624)
-
- ☐
- (766) SDWA Total Trihalomethanes (EPA 501.1)
-
- ☐
- (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
-
- ☐
- (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
-
- ☐
- (790) Composite Sample for Analysis No.

Semivolatile Screens:

- ☐
- (755) Base/Neutral Extractables (EPA 625)
-
- ☒
- (756) Base/Neutral/Acid Extractables (EPA 8270)
-
- ☐
- (772) Carbamate Pesticides (EPA 531.1)
-
- ☐
- (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
-
- ☐
- (759) Herbicides, Triazine (EPA 507)
-
- ☐
- (751) Hydrocarbon Fuel Screen (EPA M-8015)
-
- ☐
- (760) Organochlorine Pesticides (EPA 505)
-
- ☐
- (761) Organophosphate Pesticides (EPA 507)
-
- ☐
- (767) Polychlorinated Biphenyls (PCB's) in Oil
-
- ☐
- (762) SDWA Synthetic Org. Compds. (SLD 758/760)
-
- ☐
- (782) Total Petroleum Hydrocarbons (EPA 418.1)

Other Specific Compounds or Classes:

☐ - { }
☐ - { }

Remarks:

Copy to JAMES D. SMITH
NMED-CARLSBAD
406 N. Guadalupe
CARLSBAD, NM 88220

SCIENTIFIC LABORATORY DIVISION
P.O. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505]-841-2500
ORGANIC CHEMISTRY SECTION [505]-841-2570

May 17, 1994

Request
ID No. 056647

ANALYTICAL REPORT
SLD Accession No. OR-94-1300

Distribution

☐ User 55001
☒ Submitter 63
☒ SLD Files

To: James Rogers
BLM
1717 W. Second
Roswell, NM 88202

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water, Extractab sample submitted to this laboratory on April 27, 1994

DEMOGRAPHIC DATA

COLLECTION	LOCATION
On: 26-Apr-94 By: Smi . . . At: 15:45 hrs. In/Near: Carlsbad	Kincaid Ranch House

ANALYTICAL RESULTS: Base/Neut./Acid Extractable [EPA-8270] Screen {756}

Parameter	Value	Note	POL	Units
Bis(2-ethylhexyl)phthalate	5.00		1.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

PQL = Practical Quantitation Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;

T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed ☒; Intact: Not ☒, Yes ☐ & Broken By: _____ Date: _____Laboratory Remarks:

There are five compounds at 35 minutes with spectrums similar to phthalates and a total concentration of approximately 5 ug/L.

B/N/A EXTRACTABLE ANALYSIS DATA SHEET

Lab Name: NM SCIENTIFIC LABORATORY DIVISION Contract: N/A
Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A
Matrix: (soil/water) Water Lab Sample ID: OR-94-1300
Sample wt/vol: 920 (g/mL) ml SLD Batch No.: 177
Level: (low/med/high) Low Date Received: 4/27/94
% Moisture: not dec. N/A dec. _____ Date Extracted: 4/28/94
Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 4/29/94
GPC Cleanup: (Y/N) No pH: N/A Dilution Factor: 1
CONCENTRATION UNITS:
(ug/L or ug/Kg): _____ ug/L

(Continued on page 2.)

ANALYTICAL REPORT
 SLD Accession No. OR-94-1300
 Continuation, Page 2 of 4

This sample was analyzed for the following compounds
 using EPA Method 8270

CAS NO.	COMPOUND	CONC.	Q	POL
83-32-9	Acenaphthene		U	1.0
208-96-8	Acenaphthylene		U	1.0
120-12-7	Anthracene		U	1.0
103-33-3	Azobenzene		U	1.0
92-87-5	Benzidine		U	1.0
65-85-0	Benzoic acid		U	5.0
56-55-3	Benzo(a)anthracene		U	1.0
205-99-2	Benzo(b)fluoranthene		U	2.0
207-08-9	Benzo(k)fluoroanthene		U	2.0
191-24-2	Benzo(g,h,i)perylene		U	2.0
50-32-8	Benzo(a)pyrene		U	2.0
100-51-6	Benzyl alcohol		U	1.0
111-91-1	Bis(2-chloroethoxy)methane		U	1.0
111-44-4	Bis(2-chloroethyl)ether		U	1.0
39638-32-9	Bis(2-chloroisopropyl)ether		U	1.0
117-81-7	Bis(2-ethylhexyl)phthalate	5		1.0
101-55-3	4-Bromophenylphenyl ether		U	1.0
85-68-7	Butylbenzyl phthalate		U	1.0
106-47-8	4-Chloroaniline		U	2.0
91-58-7	2-Chloronaphthalene		U	1.0
59-50-7	4-Chloro-3-methylphenol		U	1.0
95-57-8	2-Chlorophenol		U	1.0
7005-72-3	4-Chlorophenylphenyl ether		U	1.0
218-01-9	Chrysene		U	1.0
53-70-3	Dibenz(a,h)anthracene		U	1.0
132-64-9	Dibenzofuran		U	1.0
84-74-2	Di-n-butyl phthalate		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0
106-46-7	1,4-Dichlorobenzene		U	1.0
91-94-1	3,3'-Dichlorobenzidine		U	1.0
120-83-2	2,4-Dichlorophenol		U	1.0
84-66-2	Diethylphthalate		U	1.0
105-67-9	2,4-Dimethylphenol		U	1.0
131-11-3	Dimethylphthalate		U	1.0
534-52-1	4,6-Dinitro-2-methylphenol		U	3.0
51-28-5	2,4-Dinitrophenol		U	10.0
121-14-2	2,4-Dinitrotoluene		U	1.0
606-20-2	2,6-Dinitrotoluene		U	1.0

(Continued on page 3.)

ANALYTICAL REPORT
SLD Accession No. OR-94-1300
Continuation, Page 4 of 4

U - Indicates compound was analyzed for, but not detected.

QUALITY CONTROL SUMMARY FOR SEMIVOLATILES SCREEN

DATE EXTRACTED:

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No compounds detected	.

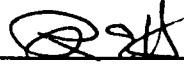
SURROGATE RECOVERIES:

SURROGATE		CONCENTRATION	% RECOVERY
2-Fluorophenol	(A)	48 ppb	48.0
Phenol-d6	(A)	19 ppb	19.0
2,4,6-Tribromophenol	(A)	118 ppb	118.0
Nitrobenzene-d5	(B/N)	11 ppb	22.0
2-Fluorobiphenyl	(B/N)	24 ppb	48.0
Terphenyl-d14	(B/N)	23 ppb	46.0

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were within EPA SW-846 criteria with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
----------	---------------	------------

Analyst: T.H.C.
Timothy H. Chapman
Analyst, Organic Chemistry

Reviewed By: 
Richard F. Meyerhein 05/13/94
Supervisor, Organic Chemistry Section

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 Camino de Salud, NE
[505]-841-2500

ORGANIC CHEMISTRY SECTION [505]-841-2570

May 16, 1994

Request
ID No. 056644ANALYTICAL REPORT
SLD Accession No. OR-94-1301Distribution☐ User 55001
☒ Submitter 63
☒ SLD FilesTo: James Rogers
BLM
1717 W. Second
Roswell, NM 88202From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, N.E.
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: A water, Extractab sample submitted to this laboratory on April 27, 1994

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 26-Apr-94	By: Smi . . .	Spring
At: 15:20 hrs.	In/Near:	

ANALYTICAL RESULTS: Base/Neut./Acid Extractable [EPA-8270] Screen {756}

Parameter	Value	Note	PQL	Units
Bis(2-ethylhexyl)phthalate	3.00		1.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

PQL = Practical Quantitation Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____Laboratory Remarks:

B/N/A EXTRACTABLE ANALYSIS DATA SHEET

Lab Name: NM SCIENTIFIC LABORATORY DIVISION	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: N/A
Matrix: (soil/water) Water	Lab Sample ID: OR-94-1301
Sample wt/vol: 950 (g/mL) mL	SLD Batch No: 177
Level: (low/med/high) Low	Date Received: 4/27/94
% Moisture: not dec. N/A dec. _____	Date Extracted: 4/28/94
Extraction: (SepF/Cont/Sonc) SepF	Date Analyzed: 4/29/94
GPC Cleanup: (Y/N) No pH: N/A	Dilution Factor: 1
	CONCENTRATION UNITS:
	(ug/L or ug/Kg): _____ ug/L

This sample was analyzed for the following compounds

(Continued on page 2.)

ANALYTICAL REPORT
 SLD Accession No. OR-94-1301
 Continuation, Page 2 of 4

using EPA Method 8270

CAS NO.	COMPOUND	CONC.	O	POL
83-32-9	Acenaphthene		U	1.0
208-96-8	Acenaphthylene		U	1.0
120-12-7	Anthracene		U	1.0
103-33-3	Azobenzene		U	1.0
92-87-5	Benzidine		U	1.0
65-85-0	Benzoic acid		U	5.0
56-55-3	Benzo(a)anthracene		U	1.0
205-99-2	Benzo(b)fluoranthene		U	2.0
207-08-9	Benzo(k)fluoroanthene		U	2.0
191-24-2	Benzo(g,h,i)perylene		U	2.0
50-32-8	Benzo(a)pyrene		U	2.0
100-51-6	Benzyl alcohol		U	1.0
111-91-1	Bis(2-chloroethoxy)methane		U	1.0
111-44-4	Bis(2-chloroethyl)ether		U	1.0
39638-32-9	Bis(2-chloroisopropyl)ether		U	1.0
117-81-7	Bis(2-ethylhexyl)phthalate	3		1.0
101-55-3	4-Bromophenylphenyl ether		U	1.0
85-68-7	Butylbenzyl phthalate		U	1.0
106-47-8	4-Chloroaniline		U	2.0
91-58-7	2-Chloronaphthalene		U	1.0
59-50-7	4-Chloro-3-methylphenol		U	1.0
95-57-8	2-Chlorophenol		U	1.0
7005-72-3	4-Chlorophenylphenyl ether		U	1.0
218-01-9	Chrysene		U	1.0
53-70-3	Dibenz(a,h)anthracene		U	1.0
132-64-9	Dibenzofuran		U	1.0
84-74-2	Di-n-butyl phthalate		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0
106-46-7	1,4-Dichlorobenzene		U	1.0
91-94-1	3,3'-Dichlorobenzidine		U	1.0
120-83-2	2,4-Dichlorophenol		U	1.0
84-66-2	Diethylphthalate		U	1.0
105-67-9	2,4-Dimethylphenol		U	1.0
131-11-3	Dimethylphthalate		U	1.0
534-52-1	4,6-Dinitro-2-methylphenol		U	3.0
51-28-5	2,4-Dinitrophenol		U	10.0
121-14-2	2,4-Dinitrotoluene		U	1.0
606-20-2	2,6-Dinitrotoluene		U	1.0
117-84-0	Di-n-octyl phthalate		U	1.0

(Continued on page 3.)

ANALYTICAL REPORT
SLD Accession No. OR-94-1301
Continuation, Page 3 of 4

206-44-0	Fluoranthene		U	1.0
86-73-7	Fluorene		U	1.0
118-74-1	Hexachlorobenzene		U	1.0
87-68-3	Hexachlorobutadiene		U	5.0
77-47-4	Hexachlorocyclopentadiene		U	5.0
67-72-1	Hexachloroethane		U	1.0
193-39-5	Indeno(1,2,3-cd)pyrene		U	1.0
78-59-1	Isophorone		U	1.0
91-57-6	2-Methylnaphthalene		U	1.0
95-48-7	2-Methylphenol		U	1.0
106-44-5	4-Methylphenol		U	1.0
91-20-3	Naphthalene		U	1.0
88-74-4	2-Nitroaniline		U	1.0
99-09-2	3-Nitroaniline		U	10.0
100-01-6	4-Nitroaniline		U	5.0
98-95-3	Nitrobenzene		U	1.0
88-75-5	2-Nitrophenol		U	1.0
100-02-7	4-Nitrophenol		U	10.0
86-30-6	N-nitrosodiphenylamine		U	1.0
62-75-9	N-nitrosodimethylamine		U	40.0
621-64-7	N-nitroso-di-n-propylamine		U	1.0
87-86-5	Pentachlorophenol		U	3.0
85-01-8	Phenanthrene		U	1.0
108-95-2	Phenol		U	1.0
129-00-0	Pyrene		U	1.0
120-82-1	1,2,4-Trichlorobenzene		U	1.0
95-95-4	2,4,5-Trichlorophenol		U	1.0
88-06-2	2,4,6-Trichlorophenol		U	1.0

- * CONC = CONCENTRATION DETERMINED
PQL = Practical Quantitation Limit (Approximately 10 times MDL)
* Q = Qualifier Definitions:
B - Indicates compound was detected in the Lab Blank as well as in the sample.
D - Indicates value taken from a secondary (diluted) sample analysis.
E - Indicates compound concentration exceeded the range of the standard curve.
J - Indicates an estimated value for tentatively identified compounds, or for compounds detected and identified but present at a concentration less than the practical quantitation limit.
N - Indicates that more than one peak was used for quantitation.
U - Indicates compound was analyzed for, but not detected.

(Continued on page 4.)

ANALYTICAL REPORT
SLD Accession No. OR-94-1301
Continuation, Page 4 of 4

QUALITY CONTROL SUMMARY FOR SEMIVOLATILES SCREEN

DATE EXTRACTED:

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No compounds detected	

SURROGATE RECOVERIES:

SURROGATE		CONCENTRATION	% RECOVERY
2-Fluorophenol	(A)	7 ppb	7.0
Phenol-d6	(A)	3 ppb	3.0
2,4,6-Tribromophenol	(A)	45 ppb	45.0
Nitrobenzene-d5	(B/N)	2 ppb	4.0
2-Fluorobiphenyl	(B/N)	9 ppb	18.0
Terphenyl-d14	(B/N)	11 ppb	22.0

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were within EPA SW-846 criteria with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
----------	---------------	------------

Analyst:

T. H. C.
Timothy H. Chapman
Analyst, Organic Chemistry

Reviewed By:

R. F. Meyerhein
Richard F. Meyerhein 05/13/94
Supervisor, Organic Chemistry Section

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-257

SLD No.

OR94 1301 C

Date

Received: 4-27-94

Request ID No.

056644-C

User Code #:

S. S. O. O. L

Request ID No.:

Request ID No. 056644-C

Priority Code #:

3

(If "1" or "2", call ED-SLD Coordinator)

5 Facility Name:

BLM

6 County:

7 City:

8 State:

9 Sample Location:

S. P. R. I. N. G.

10 Collected By:

JAMES

S. M. I. T. H.

On:

94/04/26

At:

15:20 hrs.

First

Last

(505) 885-4023

Date: (YY/MM/DD)

Time: 24 hr. clock
500 pm = 1500 hrs.

11 Codes:

0.6.3
Submitter

WSS #

Organization

12 Latitude (DDMMSS)

Longitude (DDMMSS)

2 Digit ID
(if needed)

13 Report To:

JAMES W Rogers

14 Phone #:

505-88627-0272

Address

BLM

15 Sampling Information:

- Sample Purpose:
- ☐ - Grab
 - ☐ - Composite
 - ☐ - Compliance
 - ☐ - NMED Monitoring
 - ☐ - Confirmation
 - ☐ - Special
 - ☐ - Flow Proportioned
 - ☐ - Equal Aliquot
 - ☐ - Sample Split w/Permittee
 - ☐ - Chain of Custody

City, State Zip

1717 W Second

Roswell NM 88202

16 Field Data:

pH:

Conductivity:

umhos/cm @

Temperature:

Chlorine Residual:

mg/l, Flow:

17 Sample Source:

- ☐ - Stream
- ☐ - Lake
- ☐ - Drain
- ☐ - Pool
- ☐ - WWTP
- ☐ - Entry Point to Distribution
- ☐ - Well; Depth:
- ☒ - Spring
- ☐ - Distribution
- ☐ - Other:

18 Field

Remarks:

19 Sample Type:

☒ - Water☐ - Wastewater☒ - Unchlorinated☐ - Chlorinated☐ - Soil, ☐ - Food, ☐ - Other

This form accompanies a single sample consisting of:

- septum vial(s) (volume = ml ea.)

- glass jug(s) (volume = ml ea.)

(volume =)

20 Preservation:

- ☐ - NP No Preservation; Sample stored at room temperature
- ☒ - P-Ice Sample stored in an ice bath (Not Frozen)
- ☐ - P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
- ☐ - P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
- ☐ - P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
- ☐ - Other

21 Analyses Requested:

Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ - (753) Aliphatic Headspace (Qualitative Screen)
- ☐ - (754) Aromatic & Halogenated Purgeables (EPA 601/2)
- ☐ - (765) Mass Spectrometer Purgeables (EPA 624)
- ☐ - (766) SDWA Total Trihalomethanes (EPA 501.1)
- ☐ - (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
- ☐ - (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
- ☐ - (790) Composite Sample for Analysis No.

Other Specific Compounds or Classes:

- ☐ - ()
- ☐ - ()

Semivolatile Screens:

- ☐ - (755) Base/Neutral Extractables (EPA 625)
- ☒ - (756) Base/Neutral/Acid Extractables (EPA 8270)
- ☐ - (772) Carbamate Pesticides (EPA 531.1)
- ☐ - (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
- ☐ - (759) Herbicides, Triazine (EPA 507)
- ☐ - (751) Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ - (760) Organochlorine Pesticides (EPA 505)
- ☐ - (761) Organophosphate Pesticides (EPA 507)
- ☐ - (767) Polychlorinated Biphenyls (PCB's) in Oil
- ☐ - (762) SDWA Synthetic Org. Compds. (SLD 758/760)
- ☐ - (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

Copy to JAMES D. SMITH

NMED-CARLSBAD

406 N Guadalupe

Carlsbad, NM 88220

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2570

SLD No. 1

Date

Received:

User Code #: 55001Request ID No.: 3Request ID No. 056643-CPriority Code #: 3

(If "1" or "2", call ED-SLD Coordinator)

5 Facility Name: BLM6 County: Eddy7 City: CARLSBAD8 State: N.M.9 Sample Location: SPRING10 Collected By: JAMES S. SMITH On: 9/4/04/26 At: 1:52:00 hrs.
First Last Initial Date: (YY/MM/DD) Time: 24 hr. clock
3:00 pm - 1500 hrs.11 Codes: 063 Submitter WSS # Organization12 Latitude (DDMMSS)
Longitude (DDMMSS) 2 Digit ID (if needed)13 Report To: JAMES W Rogers 14 Phone #: (505) 827-0272Address: BLM
1717 W Second
City, State Zip: Roswell NM 8820215 Sampling Information:
Sample Purpose: ☒ Grab ☐ Composite (Composite Time Period)
☐ Compliance ☐ Flow Proportioned
☐ NMED Monitoring ☐ Equal Aliquot
☐ Confirmation ☐ Sample Split w/Permittee
☒ Special ☐ Chain of Custody16 Field Data: pH: , Conductivity: umhos/cm @ Temperature: °C, Chlorine Residual: mg/l, Flow: 17 Sample Source:
☐ Stream ☐ Entry Point to Distribution
☐ Lake ☐ Well; Depth:
☐ Drain ☒ Spring
☐ Pool ☐ Distribution
☐ WWTP ☐ Other:

18 Field Remarks:

19 Sample Type: ☒ Water ☒ Unchlorinated
☐ Soil, ☐ Food, ☐ Other ☐ Wastewater ☐ Chlorinated
It is form accompanies a single sample consisting of:
2 - septum vial(s) (volume = 40 ml ea.)
 - glass jug(s) (volume = ml ea.)
 (volume =)20 Preservation:
☐ NP No Preservation; Sample stored at room temperature
☐ P-Ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
☐ Other

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐
- (753) Aliphatic Headspace (Qualitative Screen)
-
- ☒
- (754) Aromatic & Halogenated Purgeables (EPA 601/2)
-
- ☐
- (765) Mass Spectrometer Purgeables (EPA 624)
-
- ☐
- (766) SDWA Total Trihalomethanes (EPA 501.1)
-
- ☐
- (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
-
- ☐
- (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
-
- ☐
- (790) Composite Sample for Analysis No.
-

Other Specific Compounds or Classes:

- ☐
- ()
-
-
- ☐
- ()
-

Semivolatile Screens:

- ☐
- (755) Base/Neutral Extractables (EPA 625)
-
- ☐
- (756) Base/Neutral/Acid Extractables (EPA 8270)
-
- ☐
- (772) Carbamate Pesticides (EPA 531.1)
-
- ☐
- (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
-
- ☐
- (759) Herbicides, Triazine (EPA 507)
-
- ☐
- (751) Hydrocarbon Fuel Screen (EPA M-8015)
-
- ☐
- (760) Organochlorine Pesticides (EPA 505)
-
- ☐
- (761) Organophosphate Pesticides (EPA 507)
-
- ☐
- (767) Polychlorinated Biphenyls (PCB's) in Oil
-
- ☐
- (762) SDWA Synthetic Org. Compds. (SLD 758/760)
-
- ☐
- (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: Copy to JAMES D SMITHNMED-CARLSBAD406 N GuadalupeCARLSBAD, NM 88220

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-257

SLD No. 1

Date Received:

Request ID No. 056644-C

User Code #: S.S.O.O.I. 3 Request ID No.:

4 Priority Code #: 3 (If "1" or "2", call ED-SLD Coordinator)

5 Facility Name: BLM 6 County: 7 City: 8 State:

9 Sample Location: S.P.R.I.N.G.

10 Collected By: JAMES S.M.I.T.H. On: 94/04/26 At: 15:20 hrs.
First Last (505) 885-9022 Date: (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.

11 Codes: 0.6.3 Submitter WSS # Organization 12 Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

13 Report To: JAMES W Rogus 14 Phone #: 505-88627-0272
Address: BLM 1717 W Second
City, State Zip: Roswell NM 88202

16 Field Data: pH: , Conductivity: umhos/cm @ Temperature: °C Chlorine Residual: mg/l, Flow:

17 Sample Source: ☐ -Stream ☐ -Entry Point to Distribution ☐ -Lake ☐ -Well; Depth: ☐ -Drain ☒ -Spring ☐ -Pool ☐ -Distribution ☐ -WWTP ☐ -Other: 18 Field Remarks:19 Sample Type: ☒ -Water ☒ -Unchlorinated ☐ -Wastewater ☐ -Chlorinated ☐ -Soil ☐ -Food ☐ -Other
This form accompanies a single sample consisting of:
- septum vial(s) (volume = ml ea.)
- glass jug(s) (volume = ml ea.)
(volume =) 20 Preservation: ☐ - NP No Preservation; Sample stored at room temperature ☒ - P-Ice Sample stored in an ice bath (Not Frozen) ☐ - P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☐ - P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml) ☐ - P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride ☐ - Other

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐
- (753) Aliphatic Headspace (Qualitative Screen)
-
- ☐
- (754) Aromatic & Halogenated Purgeables (EPA 601/2)
-
- ☐
- (765) Mass Spectrometer Purgeables (EPA 624)
-
- ☐
- (766) SDWA Total Trihalomethanes (EPA 501.1)
-
- ☐
- (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
-
- ☐
- (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
-
- ☐
- (790) Composite Sample for Analysis No. _____

Other Specific Compounds or Classes:

- ☐
- ()
-
- ☐
- ()

Semivolatile Screens:

- ☐
- (755) Base/Neutral Extractables (EPA 625)
-
- ☒
- (756) Base/Neutral/Acid Extractables (EPA 8270)
-
- ☐
- (772) Carbamate Pesticides (EPA 531.1)
-
- ☐
- (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
-
- ☐
- (759) Herbicides, Triazine (EPA 507)
-
- ☐
- (751) Hydrocarbon Fuel Screen (EPA M-8015)
-
- ☐
- (760) Organochlorine Pesticides (EPA 505)
-
- ☐
- (761) Organophosphate Pesticides (EPA 507)
-
- ☐
- (767) Polychlorinated Biphenyls (PCB's) in Oil
-
- ☐
- (762) SDWA Synthetic Org. Compds. (SLD 758/760)
-
- ☐
- (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: Copy to JAMES D. SMITH
NMED-CARLSBAD
406 N Guadalupe
Carlsbad, NM 88220

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD, ALBUQUERQUE, NM 87106
Water Chemistry Section - Telephone: (505) 841-2555

SLD No. _____

Date

Received: _____

Request ID No. 044618-B

Isar Code #: S S O O L

Request ID No.: 3

Priority Code #: 3

(If "1" or "2", call ED-SLD Coordinator)

Facility Name: BLM

County: EDDY

City: CARLSBAD

State: N.M.

Sample Location: SPRING

Collected By: JAMES S. SMITH

On: / /

At: 1:52 hrs.

Codes:

063

WSS #

Organization

Latitude (DDMMSS)

Longitude (DDMMSS)

2 Digit ID (if needed)

Report To: JAMES W Rogers

Phone #: 505-627-0272

Address: BLM

1717 W 2nd

City, State Zip: Roswell NM 88202

Sampling Information:
☐ Grab
☐ Composite (Composite Time Period)
☐ Compliance
☐ NMED Monitoring
☐ Equal Aliquot
☐ Confirmation
☐ Sample Split w/Permittee
☐ Special
☐ Chain of Custody

Field Data: pH: , Conductivity: umhos/cm @ Temperature: °C, Chlorine Residual: mg/l, Flow: _____

Sample Source:
☐ Stream
☐ Lake
☐ Drain
☐ Pool
☐ WWTP
☐ Entry Point to Distribution
☐ Well; Depth: _____
☒ Spring
☐ Distribution
☒ Other: _____

Field Remarks:

Sample Type: ☒ Water ☒ Unchlorinated ☐ Chlorinated
☐ Soil ☐ Food ☐ Other
This form accompanies a single sample consisting of:
- 1 liter cubitainer(s) (1 quart)
- 4 liter cubitainer(s) (1 gallon)

Preservation:
☐ WNF Water Not Preserved; Filtered
☐ WNN Water Not Preserved; Not Filtered
☐ WPF Water Preserved with Sulfuric Acid (H2SO4); Filtered
☐ WPN Water Preserved with Sulfuric Acid; Not Filtered
☐ WNL Water Not Preserved in Field; Please Add H2SO4 at Lab
☒ ICE Water iced
☐ Other _____

Analyses Requested: Group analyses include multiple analytes as listed on the back of this form. Group analyses and individual analytes are listed below. Please check the appropriate box(es) below to make an analytical request. Additional individual analytes may be added-on to group requests by checking additional request boxes. See back of this form for description of footnotes.

Group Analyses:

☐ (859) SWQB SS Group (r)
☐ (860) Complete Secondary Group (r)

☐ (867) Major Anions & Cations Group (r)
☐ (868) SWQB NPS Group (r)
☐ (869) Nutrients Group (a,r)

☐ Calcium (as Ca) (r)	☐ Color (r)	☐ Biochem. Oxygen Demand (r)
☐ Magnesium (as Mg) (r)	☐ Conductivity (r)	☐ Total Suspended Solids (r)
☐ Potassium (as K) (r)	☐ Odor (r)	☐ Chemical Oxygen Demand (a,r)
☐ Sodium (as Na) (r)	☐ pH (r)	☐ Total Organic Carbon (a,r)
☐ Hardness (as CaCO3) (r)	☐ Surfactants (MBAS) (r)	☐ Total Cyanide (as CN) (b,c,r)
☐ Alkalinity (as CaCO3) (r)	☒ Total Dissolved Solids (r)	☐ Nitrate + Nitrite (as N) (a,r)
☐ Bicarbonate (as HCO3) (r)	☐ Turbidity (r)	☐ Nitrite (as N) (r)
☐ Carbonate (as CO3) (r)	☐ Other Requests:	☐ Ammonia (as N) (a,r)
☒ Chloride (as Cl) (r)		☐ Total Kjeldahl (as N) (a,r)
☐ Fluoride (as F) (r)		☐ Orthophosphate (as P) (a,r)
☐ Sulfate (as SO4) (r)		☐ Total Phosphorus (as P) (a,r)
Ion Balance		

Laboratory Results and Remarks: Copy 4 JAMES D SMITH : NMED-CARLSBAD : 406 N Guadalupe
CARLSBAD NM 88220

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD, ALBUQUERQUE, NM 87106
Water Chemistry Section - Telephone: (505) 841-2555

SLD No. _____

Date _____

Received: _____

Request ID No. 044616-A

User Code #: 5,5,0,0,1
Request ID No.: 3

Priority Code #: 3
(If "1" or "2", call ED-SLD Coordinator)

Facility Name: BLM

County: EDDY

City: CARLSBAD

State: NM

Sample Location: JIM'S TRANSPORT

Collected By: JAMES SMITH On: 9/4/26 At: 14:49 hrs.
First Last (505) 885-9023 Date: (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.

Codes: 0,6,3
Submitter WSS # Organization

Latitude (DDMMSS)
Longitude (DDMMSS)
2 Digit ID (if needed)

Report To: JAMES W. Rogers
Phone #: (505) 627-0272

Address: 1717 W Second BLM
Roswell, NM 88202

City State Zip: Roswell, NM 88202

Sampling Information:
Sample Purpose: ☒ Grab ☐ Composite (Composite Time Period)
☐ Compliance ☐ Flow Proportioned
☐ NMED Monitoring ☐ Equal Aliquot
☐ Confirmation ☐ Sample Split w/Permittee
☒ Special ☐ Chain of Custody

Field Data: pH: _____ Conductivity: _____ umhos/cm @ Temperature: _____ °C Chlorine Residual: _____ mg/l Flow: _____

Sample Source:
☐ Stream ☐ Entry Point to Distribution
☐ Lake ☐ Well; Depth: _____
☐ Drain ☐ Spring
☐ Pool ☐ Distribution
☐ WWTP ☒ Other: TANK TRUCK

Field Remarks:

Sample Type: ☒ Water ☐ Unchlorinated
☐ Wastewater ☐ Chlorinated
☐ Soil ☐ Food ☐ Other
This form accompanies a single sample consisting of:
1 - 1 liter cubitainer(s) (1 quart)
4 - 1 liter cubitainer(s) (1 gallon)

Preservation:
☐ WNF Water Not Preserved; Filtered
☐ WNN Water Not Preserved; Not Filtered
☐ WPF Water Preserved with Sulfuric Acid (H2SO4); Filtered
☐ WPN Water Preserved with Sulfuric Acid; Not Filtered
☐ WNL Water Not Preserved in Field; Please Add H2SO4 at Lab
☒ ICE Water Iced
☐ Other

Analyses Requested: Group analyses include multiple analytes as listed on the back of this form. Group analyses and individual analytes are listed below. Please check the appropriate box(es) below to make an analytical request. Additional individual analytes may be added-on to group requests by checking additional request boxes. See back of this form for description of footnotes.

Group Analyses:

☐ (859) SWQB SS Group (r)
☐ (860) Complete Secondary Group (r)

☐ (867) Major Anions & Cations Group (r)
☐ (868) SWQB NPS Group (r)
☐ (869) Nutrients Group (a,r)

☐ Calcium (as Ca) (r)	☐ Color (r)	☐ Biochem. Oxygen Demand (r)
☐ Magnesium (as Mg) (r)	☐ Conductivity (r)	☐ Total Suspended Solids (r)
☐ Potassium (as K) (r)	☐ Odor (r)	☐ Chemical Oxygen Demand (a,r)
☐ Sodium (as Na) (r)	☐ pH (r)	☐ Total Organic Carbon (a,r)
☐ Hardness (as CaCO3) (r)	☐ Surfactants (MBAS) (r)	☐ Total Cyanide (as CN) (b,c,r)
☐ Alkalinity (as CaCO3) (r)	☒ Total Dissolved Solids (r)	☐ Nitrate + Nitrite (as N) (a,r)
☐ Bicarbonate (as HCO3) (r)	☐ Turbidity (r)	☐ Nitrite (as N) (r)
☐ Carbonate (as CO3) (r)	☐ Other Requests:	☐ Ammonia (as N) (a,r)
☒ Chloride (as Cl) (r)		☐ Total Kjeldahl (as N) (a,r)
☐ Fluoride (as F) (r)		☐ Orthophosphate (as P) (a,r)
☐ Sulfate (as SO4) (r)		☐ Total Phosphorus (as P) (a,r)
☐ Ion Balance		

Laboratory Results and Remarks: Copy to James D Smith, NMED CARLSBAD, 906 N Guadalupe
Carlsbad NM 88220

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2577

SLD No. 1

Date

Received: _____

User
Code #: S.S.O.O.L3 Request
ID No.: _____Request ID No. 044617-C4 Priority
Code #: 3(If "1" or "2",
call ED-SLD
Coordinator)5 Facility
Name: BLM6 County:
EDDY7 City:
CARLSBAD8 State
_____9 Sample
Location: J.I.M.S. TRANSPORT10 Collected
By: JAMES D. SMITH On: 99/04/26 At: 1500 hrs.
First Last Initial Date: (YY/MM/DD) Time: 24 hr. clock
3:00 pm = 1500 hrs.

11 Codes:

063

Submitter

WSS #

Organization

12 Latitude (DDMMSS)

Longitude (DDMMSS)

2 Digit ID
(if needed)13 Report
To: JAMES W. ROGERS14 Phone #: (505) 627-0272

Address

City, State Zip

15 Sampling Information:
Sample Purpose: ☒ Grab ☐ Composite (Composite Time Period)
☐ Compliance ☐ Flow Proportioned
☐ NMED Monitoring ☐ Equal Aliquot
☐ Confirmation ☐ Sample Split w/Permittee
☒ Special ☐ Chain of Custody16 Field
Data: pH: _____, Conductivity: _____ umhos/cm @ Temperature: _____ °C, Chlorine Residual: _____ mg/l, Flow: _____

17 Sample Source:

- ☐ Stream ☐ Entry Point to Distribution
☐ Lake ☐ Well; Depth: _____
☐ Drain ☐ Spring
☐ Pool ☐ Distribution
☐ WWTP ☒ Other: TANK TRUCK

18 Field
Remarks:19 Sample Type: ☒ Water ☒ Unchlorinated
☐ Wastewater ☐ Chlorinated
☐ Soil, ☐ Food, ☐ Other
This form accompanies a single sample consisting of:
- septum vial(s) (volume = _____ ml ea.)
- glass jug(s) (volume = 1000 ml ea.)
(volume = _____)

20 Preservation:

- ☐ NP No Preservation; Sample stored at room temperature
☒ P-ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☐ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
☐ Other _____

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ (753) Aliphatic Headspace (Qualitative Screen)
☐ (754) Aromatic & Halogenated Purgeables (EPA 601/2)
☐ (765) Mass Spectrometer Purgeables (EPA 624)
☐ (766) SDWA Total Trihalomethanes (EPA 501.1)
☐ (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
☐ (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
☐ (790) Composite Sample for Analysis No. _____

Other Specific Compounds or Classes:

- ☐ - { }
☐ - { }

Semivolatile Screens:

- ☐ (755) Base/Neutral Extractables (EPA 625)
☒ (756) Base/Neutral/Acid Extractables (EPA 8270)
☐ (772) Carbamate Pesticides (EPA 531.1)
☐ (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
☐ (759) Herbicides, Triazine (EPA 507)
☐ (751) Hydrocarbon Fuel Screen (EPA M-8015)
☐ (760) Organochlorine Pesticides (EPA 505)
☐ (761) Organophosphate Pesticides (EPA 507)
☐ (767) Polychlorinated Biphenyls (PCB's) in Oil
☐ (762) SDWA Synthetic Org. Compds. (SLD 758/760)
☐ (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: Copy of Report to JAMES D. SMITHNMED CARLSBAD406 N GuadalupeCarlsbad NM 88220

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2570

SLD No. 1

Date

Received:

User
Code #:650013 Request
ID No.:Request |||||||
ID No. 044619-C4 Priority
Code #:3(If "1" or "2",
call ED-SLD
Coordinator)5 Facility
Name:BLM

6 County:

EDDY

7 City:

CARLSBAD

8 State:

NM9 Sample
Location:J.I.M.S. TRANSPORT

10 Collected

By:

JAMESS.M.I.T.H

On:

94/04/26

At:

11:45 hrs.

First

Last

(505) 885-9023

Date: (YY/MM/DD)

Time: 24 hr. clock
3:00 pm - 1500 hrs.

11 Codes:

063

Submitter

WSS #

Organization

12 Latitude (DDMMSS)

Longitude (DDMMSS)

2 Digit ID
(if needed)

13 Report

To:

JAMES W Rogers

14 Phone #:

(505) 885-627-0272

Address

BLM

City, State Zip

1717 W Second
Roswell NM 88202

15 Sampling Information:

- Sample Purpose: ☒ - Grab ☐ - Composite (Composite Time Period)
☐ - Compliance ☐ - Flow Proportioned
☐ - NMED Monitoring ☐ - Equal Aliquot
☐ - Confirmation ☐ - Sample Split w/Permittee
☒ - Special ☐ - Chain of Custody

16 Field

Data: pH:

Conductivity:

umhos/cm @

Temperature:

Chlorine

Residual:

mg/l, Flow:

17 Sample Source:

☐ - Stream☐ - Entry Point to Distribution☐ - Lake☐ - Well; Depth:☐ - Drain☐ - Spring☐ - Pool☐ - Distribution☐ - WWTP☒ - Other: TANK TRUCK

18 Field

Remarks:

19 Sample Type:

☒ - Water☒ - Unchlorinated☐ - Wastewater☐ - Chlorinated☐ - Soil, ☐ - Food, ☐ - OtherThis form accompanies a single sample consisting of:- septum vial(s) (volume = _____ ml ea.)- glass jug(s) (volume = _____ ml ea.)

(volume = _____)

20 Preservation:

☐ - NP

No Preservation; Sample stored at room temperature

☐ - P-Ice

Sample stored in an ice bath (Not Frozen)

☐ - P-TS

Sample Preserved with Sodium Thiosulfate to remove chlorine residual

☒ - P-HCl

Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

☐ - P-HgCl₂

Sample Preserved with 20 mg/l Mercuric Chloride

☐ - Other

21 Analyses Requested:

Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ - (753) Aliphatic Headspace (Qualitative Screen)
☒ - (754) Aromatic & Halogenated Purgeables (EPA 601/2)
☐ - (765) Mass Spectrometer Purgeables (EPA 624)
☐ - (766) SDWA Total Trihalomethanes (EPA 501.1)
☐ - (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
☐ - (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
☐ - (790) Composite Sample for Analysis No. _____

Other Specific Compounds or Classes:

- ☐ - () _____
☐ - () _____

Semivolatile Screens:

- ☐ - (755) Base/Neutral Extractables (EPA 625)
☐ - (756) Base/Neutral/Acid Extractables (EPA 8270)
☐ - (772) Carbamate Pesticides (EPA 531.1)
☐ - (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
☐ - (759) Herbicides, Triazine (EPA 507)
☐ - (751) Hydrocarbon Fuel Screen (EPA M-8015)
☐ - (760) Organochlorine Pesticides (EPA 505)
☐ - (761) Organophosphate Pesticides (EPA 507)
☐ - (767) Polychlorinated Biphenyls (PCB's) in Oil
☐ - (762) SDWA Synthetic Org. Compds. (SLD 758/760)
☐ - (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

Report sent to JAMES SMITH NMED-CARLSBAD - 406 N Guadalupe, Carlsbad
NM in addition to 13 above

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD, ALBUQUERQUE, NM 87106
Water Chemistry Section - Telephone: (505) 841-2557

SLD No. _____

Date

Received: _____

Request ID No. 056645-B

User Code #: 55001 Request ID No.: 3

Priority Code #: 3 (If "1" or "2", call ED-SLD Coordinator)

Facility Name: BLM

County: EDDY

City: CARLSBAD

State: N.M.

Sample Location: KINCALD, RANCH, HOUSE

Collected By: JAMES S. SMITH On: 94/04/26 At: 1:54 hrs.
First Last (505) 885-9023 Date: (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.

Codes: 063 Submitter WSS # Organization

Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)

Report To: JAMES W Rogers Phone #: (505) 627-0272

Address: BLM 1717 W Second Roswell NM 88202

Sampling Information: ☒ Grab ☐ Composite (Composite Time Period) ☐ Compliance ☐ Flow Proportioned ☐ NMED Monitoring ☐ Equal Aliquot ☐ Confirmation ☐ Sample Split w/Permittee ☒ Special ☐ Chain of Custody

Field Data: pH: _____ Conductivity: _____ umhos/cm @ Temperature: _____ °C Chlorine Residual: _____ mg/l Flow: _____

Sample Source: ☐ Stream ☐ Lake ☐ Drain ☐ Pool ☐ WWTP ☐ Entry Point to Distribution ☒ Well; Depth: 160 ft ☐ Spring ☐ Distribution ☐ Other:

Field Remarks:

Sample Type: ☒ Water ☒ Unchlorinated ☐ Soil ☐ Food ☐ Other ☐ Wastewater ☐ Chlorinated
This form accompanies a single sample consisting of:
1 - 1 liter cubitainer(s) (1 quart)
4 - 4 liter cubitainer(s) (1 gallon)

Preservation: ☐ WNF Water Not Preserved; Filtered ☐ WNN Water Not Preserved; Not Filtered ☐ WPF Water Preserved with Sulfuric Acid (H2SO4); Filtered ☐ WPN Water Preserved with Sulfuric Acid; Not Filtered ☐ WNL Water Not Preserved in Field; Please Add H2SO4 at Lab ☐ ICE Water Iced ☐ Other:

Analyses Requested: Group analyses include multiple analytes as listed on the back of this form. Group analyses and individual analytes are listed below. Please check the appropriate box(es) below to make an analytical request. Additional individual analytes may be added-on to group requests by checking additional request boxes. See back of this form for description of footnotes.

Group Analyses:

☐ (859) SWQB SS Group (r)
☐ (860) Complete Secondary Group (r)

☐ (867) Major Anions & Cations Group (r)
☐ (868) SWQB NPS Group (r)
☐ (869) Nutrients Group (a,r)

☐ Calcium (as Ca) (r)	☐ Color (r)	☐ Biochem. Oxygen Demand (r)
☐ Magnesium (as Mg) (r)	☐ Conductivity (r)	☐ Total Suspended Solids (r)
☐ Potassium (as K) (r)	☐ Odor (r)	☐ Chemical Oxygen Demand (a,r)
☐ Sodium (as Na) (r)	☐ pH (r)	☐ Total Organic Carbon (a,r)
☐ Hardness (as CaCO3) (r)	☐ Surfactants (MBAS) (r)	☐ Total Cyanide (as CN) (b,c,r)
☐ Alkalinity (as CaCO3) (r)	☒ Total Dissolved Solids (r)	☐ Nitrate + Nitrite (as N) (a,r)
☐ Bicarbonate (as HCO3) (r)	☐ Turbidity (r)	☐ Nitrite (as N) (r)
☐ Carbonate (as CO3) (r)	☐ Other Requests:	☐ Ammonia (as N) (a,r)
☒ Chloride (as Cl) (r)		☐ Total Kjeldahl (as N) (a,r)
☐ Fluoride (as F) (r)		☐ Orthophosphate (as P) (a,r)
☐ Sulfate (as SO4) (r)		☐ Total Phosphorus (as P) (a,r)
☐ Ion Balance		

Laboratory Results and Remarks: Copy to JAMES D SMITH NMED-CARLSBAD; 406 N Guadalupe CARLSBAD, NM 88202

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2570

SLD No. 1

Date

Received:

User
Code #: 55001Request
ID No.: 3Request
ID No. |||||||
056646-CPriority
Code #: 3(If "1" or "2",
call ED-SLD
Coordinator)5 Facility
Name: BLM6 County:
EDDY7 City:
CARLSBAD8 State:
N.M.9 Sample
Location: K.I.N.C.A.I.D. R.A.N.C.H. H.D.U.S.E.10 Collected
By: JAMES S. SMITH On: 99/04/26 At: 1515 hrs.
First Last Initial Date: (YY/MM/DD) Time: 24 hr. clock
3:00 pm = 1500 hrs.11 Codes:
063 Submitter WSS # Organization12 Latitude (DDMMSS)
Longitude (DDMMSS) 2 Digit ID
(if needed)13 Report
To: JAMES W Rogers 14 Phone #: (505) 627-0272Address
BLM
1717 W Second
City, State Zip
Roswell NM 8820215 Sampling Information:
Sample Purpose: ☒ Grab ☐ Composite (Composite
Time Period)
☐ Compliance ☐ Flow Proportioned
☐ NMED Monitoring ☐ Equal Aliquot
☐ Confirmation ☐ Sample Split w/Permittee
☒ Special ☐ Chain of Custody16 Field
Data: pH: _____, Conductivity: _____ umhos/cm @ Temperature: _____ °C, Chlorine
Residual: _____ mg/l, Flow: _____17 Sample Source:
☐ Stream ☐ Entry Point to Distribution
☐ Lake ☒ Well; Depth: 160
☐ Drain ☐ Spring
☐ Pool ☐ Distribution
☐ WWTP ☐ Other: _____18 Field
Remarks:19 Sample Type: ☒ Water ☒ Unchlorinated
☐ Wastewater ☐ Chlorinated
☐ Soil, ☐ Food, ☐ Other
It is form accompanies a single sample consisting of:
2 - septum vial(s) (volume = 40 ml ea.)
 - glass jug(s) (volume = ml ea.)
(volume =)20 Preservation:
☐ NP No Preservation; Sample stored at room temperature
☐ P-Ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
☐ Other _____

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐
- (753) Aliphatic Headspace (Qualitative Screen)
-
- ☒
- (754) Aromatic & Halogenated Purgeables (EPA 601/2)
-
- ☐
- (765) Mass Spectrometer Purgeables (EPA 624)
-
- ☐
- (766) SDWA Total Trihalomethanes (EPA 501.1)
-
- ☐
- (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
-
- ☐
- (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
-
- ☐
- (790) Composite Sample for Analysis No. _____

Other Specific Compounds or Classes:

☐ - { }
☐ - { }

Semivolatile Screens:

- ☐
- (755) Base/Neutral Extractables (EPA 625)
-
- ☐
- (756) Base/Neutral/Acid Extractables (EPA 8270)
-
- ☐
- (772) Carbamate Pesticides (EPA 531.1)
-
- ☐
- (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
-
- ☐
- (759) Herbicides, Triazine (EPA 507)
-
- ☐
- (751) Hydrocarbon Fuel Screen (EPA M-8015)
-
- ☐
- (760) Organochlorine Pesticides (EPA 505)
-
- ☐
- (761) Organophosphate Pesticides (EPA 507)
-
- ☐
- (767) Polychlorinated Biphenyls (PCB's) in Oil
-
- ☐
- (762) SDWA Synthetic Org. Compds. (SLD 758/760)
-
- ☐
- (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: copy to JAMES D. SMITH
NMED - CARLSBAD
406 N'Guadalupe
CARLSBAD NM 88220

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2577

SLD No. 1

Date

Received:

Request |||||||

ID No. 056647-C

User Code #: 55001

3 Request ID No.:

4 Priority Code #: 3

(If "1" or "2", call ED-SLD Coordinator)

5 Facility Name: BLM

6 County: EDDY

7 City: CARLSBAD

8 State: N.M.

9 Sample Location: K.I.N.C.A.I.D. RANCH, N.O.U.S.E.

10 Collected By: JAMES S. MITH On: 94/04/20 At: 15:45 hrs.
First Last (505) 885-9073 Date: (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.

11 Codes: 063 Submitter WSS # Organization

12 Latitude (DDMMSS) "
Longitude (DDMMSS) " 2 Digit ID (if needed)

13 Report To: JAMES W Roguo 14 Phone #: (505) 627-0272

Address: BLM
1717 W Second
City, State Zip: Roswell NM 88202

15 Sampling Information:
Sample Purpose: ☒ Grab ☐ Composite (Composite Time Period)
☐ Compliance ☐ Flow Proportioned
☐ NMED Monitoring ☐ Equal Aliquot
☐ Confirmation ☐ Sample Split w/Permittee
☒ Special ☐ Chain of Custody

16 Field Data: pH: , Conductivity: umhos/cm @ Temperature: °C, Chlorine Residual: mg/l, Flow:

17 Sample Source:
☐ Stream ☐ Entry Point to Distribution
☐ Lake ☒ Well; Depth: 160
☐ Drain ☐ Spring
☐ Pool ☐ Distribution
☐ WWTP ☐ Other:

18 Field Remarks:

19 Sample Type: ☒ Water ☒ Unchlorinated
☐ Wastewater ☐ Chlorinated
☐ Soil ☐ Food ☐ Other
It is form accompanies a single sample consisting of:
2 - septum vial(s) (volume = ml ea.)
 - glass jug(s) (volume = 1000 ml ea.)
(volume =)

20 Preservation:
☐ NP No Preservation; Sample stored at room temperature
☒ P-Ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☐ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)
☐ P-HgCl₂ Sample Preserved with 20 mg/l Mercuric Chloride
☐ Other

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

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- ☐ - (753) Aliphatic Headspace (Qualitative Screen)
- ☐ - (754) Aromatic & Halogenated Purgeables (EPA 601/2)
- ☐ - (765) Mass Spectrometer Purgeables (EPA 624)
- ☐ - (766) SDWA Total Trihalomethanes (EPA 501.1)
- ☐ - (774) SDWA VOC's I [21 REGULATED +] (EPA 502.2)
- ☐ - (775) SDWA VOC's II [EDB & DBCP] (EPA 504)
- ☐ - (790) Composite Sample for Analysis No.

Other Specific Compounds or Classes:

- ☐ - ()
- ☐ - ()

Semivolatile Screens:

- ☐ - (755) Base/Neutral Extractables (EPA 625)
- ☒ - (756) Base/Neutral/Acid Extractables (EPA 8270)
- ☐ - (772) Carbamate Pesticides (EPA 531.1)
- ☐ - (758) Herbicides, Chlorophenoxy Acid (EPA 515.1)
- ☐ - (759) Herbicides, Triazine (EPA 507)
- ☐ - (751) Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ - (760) Organochlorine Pesticides (EPA 505)
- ☐ - (761) Organophosphate Pesticides (EPA 507)
- ☐ - (767) Polychlorinated Biphenyls (PCB's) in Oil
- ☐ - (762) SDWA Synthetic Org. Compds. (SLD 758/760)
- ☐ - (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: COPY to JAMES D. SMITH
NMED-CARLSBAD
408 N. Guadalupe
CARLSBAD, NM 88220