SOIL VAPOR SURVEY AND GROUNDWATER SAMPLING
CONDUCTED ON JUNE 11, 1991
AT HALSELL'S GROCERY IN HATCH

SAMPLE LOCATION	DEPTH	HNU/PID	FID	READING IN PPM
SV-1	3′	60	0	
	6′	0	220	
	9′-Groundwater encountered, strong hydrocarbon odors, sample taken ID#010824-A			
SV-2	3′	68	0	
	6′	50	70	
	9′	50	10	no groundwater
SV-3	3′	23	07	
	6′	15.6	5.6	
	9′	62	50	
SV-4	3′	200	380	
	6′	250	>1000	
	9′-Groundwater encountered, strong hydrocarbon odor, sample taken ID#010825-A			
SV-5	3′	180	>1000	
	6′	300	>1000	
	9′-Groundwater encountered, strong hydrocarbon odor, sample taken ID#010826-A			
SV-6	3′	90	50	
	6′	150	800	
	9′	110	60	no groundwater
SV-7	3′	70	70	
	6′	50	34	
	9′	162	>1000	no groundwater

Note: Soil vapor probes, flights, associated tubing and sample collection bottles were decontaminated with Liquinox soap, Ethanol, and de-ionized water after each sample location.

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106
Organic Chemistry Section - Telephone: (505) 841-257

SLD No. OKYT-2102-C

Date Received: 6-17-91

Request ID No. 010824-A

2 User Code #: 5 5 2 1 0

3 Request ID No.:

4 Priority Code #: 3 [If "1" or "2", call EID-SLD Coordinator]

5 Facility Name: Halsells Grocery

6 County: Dona Ana

7 City: Hatch

8 State: NM

9 Sample Location: SVI-1

10 Collected By: Tony Moreland (First / Last) On: 91/06/11 (Date: YY/MM/DD) At: 1150 hrs. (Time: 24 hr. clock, 3:00 pm = 1500 hrs.)

11 Codes: 5 2 1 (Submitter) - (WSS # / Organization)

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

13 Report To: Name: Tony Moreland

14 Phone #: 827-2566

Address: EID-UST Bureau/Remedial Action

Santa Fe, New Mexico 87501

City, State Zip

15 Sampling Information:
Sample Purpose: [X] Compliance [ ] Check [ ] Monitoring [ ] Special
[ ] Grab [ ] Composite _____ (Composite Time Period) [ ] Flow Proportioned [ ] Equal Aliquot [ ] Sample Split w/Permittee [ ] Chain of Custody

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

17 Sample Source:
[ ] -Stream [ ] -Well; Depth: _____
[ ] -Lake [ ] -Spring
[ ] -Drain [ ] -Distribution
[ ] -Pool [ ] -Point-of-Entry
[ ] -WWTP [X] -Other: Soil Vapor / GW Ext.

18 Field Notes/ Sample #: SVS encountered GW @ 91' - Sample taken

19 Sample Type: [X] Water, [ ] Soil, [ ] Food, [ ] Wastewater, [ ] Other _____
This form accompanies a single sample consisting of:
2 - septum vial(s) (volume = 40ml)
_____ - glass jugs (volume = _____)
_____ - _____ (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)
[X] - Other HgCl2

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.

Volatile Screens:

[ ] - (753) Aliphatic Headspace (1-5 Carbons)
[X] - (754) Aromatic & Halogenated Purgeables (EPA 601 & 602)
[ ] - (765) Mass Spectrometer Purgeables (EPA 624)
[ ] - (766) SDWA Total Trihalomethanes (EPA 501.1)
[ ] - (774) SDWA VOC's I [8 Regulated +] (EPA 502.2)
[ ] - (775) SDWA VOC's II [EDB & DBCP] (EPA 504)

Other Specific Compounds or Classes:

[X] - ( ) MTBE, EDB, EDC
[ ] - ( )
[ ] - ( )

Semivolatile Screens:

[ ] - (763) Acid Extractables
[ ] - (751) Aliphatic Hydrocarbons
[ ] - (755) Base/Neutral Extractables (EPA 625)
[ ] - (756) Base/Neutral/Acid Extractables (EPA 8270)
[ ] - (758) Herbicides, Chlorophenoxy Acid
[ ] - (759) Herbicides, Triazines
[ ] - (760) Organochlorine Pesticides
[ ] - (761) Organophosphate Pesticides
[ ] - (767) Polychlorinated Biphenyls (PCB's)
[ ] - (764) Polynuclear Aromatic Hydrocarbons
[ ] - (762) SDWA Pesticides & Herbicides

Remarks: Report results ASAP. Thankyou.

SLD 8912-OR Form New 12/89 This Form Will NOT Be Returned With Your Results. Please RETAIN A COPY!

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
Fluorobenzene	25.0 ppb	107.
2-Bromo-1-chloropropane	15.0 ppb	113.

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
Vinyl chloride	25. ppb	58.7

Analyst: Gary C. Eden
Analyst, Organic Chemistry

Reviewed By: Richard F. Meyerhein 07/10/91
Supervisor, Organic Chemistry Section

75-09-2	Methylene chloride	1000.0	U
90-12-0	1-Methylnaphthalene	200.0	U
91-57-6	2-Methylnaphthalene	200.0	U
91-20-3	Naphthalene	200.0	U
103-65-1	Propylbenzene	200.0	U
100-42-5	Styrene	200.0	U
630-20-6	1,1,1,2-Tetrachloroethane	200.0	U
79-34-5	1,1,2,2-Tetrachloroethane	200.0	U
127-18-4	Tetrachloroethene	200.0	U
109-99-9	Tetrahydrofuran (THF)	1000.0	U
108-88-3	Toluene	200.0	U
87-61-5	1,2,3-Trichlorobenzene	200.0	U
120-82-1	1,2,4-Trichlorobenzene	200.0	U
71-55-6	1,1,1-Trichloroethane	200.0	U
79-00-5	1,1,2-Trichloroethane	200.0	U
79-01-6	Trichloroethene	200.0	U
75-69-4	Trichlorofluoromethane	200.0	U
96-18-4	1,2,3-Trichloropropane	200.0	U
95-63-6	1,2,4-Trimethylbenzene	200.0	U
108-67-8	1,3,5-Trimethylbenzene	200.0	U
75-01-4	Vinyl chloride	200.0	U
95-47-6	o-Xylene	200.0	U
N/A	p- & m-Xylene	275.0	

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

(Continued on page 4.)

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

CAS NO.	COMPOUND	CONC.	QUALIFIER
67-64-1	Acetone	1000.0	U
71-43-2	Benzene	567.3	
108-86-1	Bromobenzene	200.0	U
74-97-5	Bromochloromethane	200.0	U
75-27-4	Bromodichloromethane	200.0	U
75-25-2	Bromoform	200.0	U
78-93-3	2-Butanone (MEK)	1000.0	U
104-51-8	n-Butylbenzene	200.0	U
135-98-8	sec-Butylbenzene	200.0	U
98-06-6	tert-Butylbenzene	200.0	U
1634-04-4	tert-Butyl methyl ether (MTBE)	1000.0	U
56-23-5	Carbon tetrachloride	200.0	U
108-90-7	Chlorobenzene	200.0	U
67-66-3	Chloroform	200.0	U
95-49-8	2-Chlorotoluene	200.0	U
106-43-4	4-Chlorotoluene	200.0	U
96-12-8	1,2-Dibromo-3-chloropropane	200.0	U
124-48-1	Dibromochloromethane	200.0	U
106-93-4	1,2-Dibromoethane	200.0	U
74-95-3	Dibromomethane	200.0	U
95-50-1	1,2-Dichlorobenzene	200.0	U
541-73-1	1,3-Dichlorobenzene	200.0	U
106-46-7	1,4-Dichlorobenzene	200.0	U
75-71-8	Dichlorodifluoromethane	200.0	U
75-34-3	1,1-Dichloroethane	200.0	U
107-06-2	1,2-Dichloroethane	200.0	U
75-35-4	1,1-Dichloroethene	200.0	U
156-59-4	cis-1,2-Dichloroethene	200.0	U
156-60-5	trans-1,2-Dichloroethene	200.0	U
78-87-5	1,2-Dichloropropane	200.0	U
142-28-9	1,3-Dichloropropane	200.0	U
590-20-7	2,2-Dichloropropane	200.0	U
563-58-6	1,1-Dichloropropene	200.0	U
1006-01-5	cis-1,3-Dichloropropene	200.0	U
1006-02-6	trans-1,3-Dichloropropene	200.0	U
100-41-4	Ethylbenzene	359.4	
87-68-3	Hexachlorobutadiene	200.0	U
98-82-8	Isopropylbenzene	200.0	U
99-87-6	4-Isopropyltoluene	200.0	U

(Continued on page 3.)

STATE OF NEW MEXICO DEPARTMENT OF HEALTH
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

July 10, 1991

Request ID No. 010824

ANALYTICAL REPORT
SLD Accession No. OR-91-2102

Distribution
(_) User 55210
(■) Submitter 521
(※) SLD Files

To: Tony Moreland
EID-UST Bureau/Remedial Action
1190 St. Francis Drive
Santa Fe, NM 87503

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: **A water, purgeable sample submitted to this laboratory on June 17, 1991**

DEMOGRAPHIC DATA

COLLECTION
On: 11-Jun-91 *By:* Mor . . .
At: 11:50 hrs. *In/Near:* Hatch

LOCATION
Halsells Grocery SV-1

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

Parameter	Value	Note	MDL	Units
Halogenated Volatiles (42)	0.00	N	200.00	ppb
Benzene	567.30		200.00	ppb
Ethylbenzene	359.40		200.00	ppb
p- & m-Xylene	275.00		200.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:
MDL = Minimal Detectable 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: Mary Eden Date: 6/20/91

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-91-2102
Sample wt/vol: 5.0 (g/mL) mL Lab File ID:
Level: (low/med) Low Date Received: 6/17/91
% Moisture: not dec. N/A dec. N/A Date Extracted: N/A
Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 6/20/91
GPC Cleanup: (Y/N) No pH: Dilution Factor: 200
CONCENTRATION UNITS:
(ug/L or ug/Kg): ug/L

(Continued on page 2.)

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106
Organic Chemistry Section - Telephone: (505) 841-257

SLD No. OR91-2103-C

Date Received: 6-17-91

2 User Code #: 55210

3 Request ID No.:

Request ID No. 010825-A

4 Priority Code #: 3 [If "1" or "2", call EID-SLD Coordinator]

5 Facility Name: Halsells Grocery

6 County: DONA ANA

7 City: Hatch

8 State: NM

9 Sample Location: SV-4

10 Collected By: Tony Moreland (First / Last) On: 91/06/11 (Date: YY/MM/DD) At: 1605 hrs. (Time: 24 hr. clock, 3:00 pm = 1500 hrs.)

11 Codes: Submitter: 521 / WSS #: - / Organization:

12 Latitude (DDMMSS) ° ' " N
Longitude (DDDMMSS) ° ' " W
2 Digit ID (if needed)

13 Report To: Name: Tony Moreland

14 Phone #: 827-2566

Address: EID-UST Bureau/Remedial Action

Santa Fe, New Mexico 87501

City, State Zip

15 Sample Purpose:
- [x] Compliance
- [ ] Check
- [ ] Monitoring
- [ ] Special

Sampling Information:
- [ ] Grab
- [ ] Composite _____ (Composite Time Period)
  - [ ] Flow Proportioned
  - [ ] Equal Aliquot
- [ ] Sample Split w/Permittee
- [ ] Chain of Custody

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

17 Sample Source:
- [ ] Stream
- [ ] Lake
- [ ] Drain
- [ ] Pool
- [ ] WWTP
- [ ] Well; Depth: _____
- [ ] Spring
- [ ] Distribution
- [ ] Point-of-Entry
- [x] Other: Soil Vapor/GW Ext.

18 Field Notes/ Sample #: SVS encountered GW - Sample Taken Depth-9'

19 Sample Type:
- [x] Water,
- [ ] Soil,
- [ ] Food,
- [ ] Wastewater,
- [ ] Other _____

This form accompanies a single sample consisting of:
2 - septum vial(s) (volume = 40)
____ - glass jugs (volume = _____)
____ - _____ (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)
- [x] Other HgCl2

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.

Volatile Screens:
- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables (EPA 601 & 602)
- [ ] (765) Mass Spectrometer Purgeables (EPA 624)
- [ ] (766) SDWA Total Trihalomethanes (EPA 501.1)
- [ ] (774) SDWA VOC's I [8 Regulated +] (EPA 502.2)
- [ ] (775) SDWA VOC's II [EDB & DBCP] (EPA 504)

Other Specific Compounds or Classes:
- [x] ( ) MTBE, EDB, EDC
- [ ] ( )
- [ ] ( )

Semivolatile Screens:
- [ ] (763) Acid Extractables
- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables (EPA 625)
- [ ] (756) Base/Neutral/Acid Extractables (EPA 8270)
- [ ] (758) Herbicides, Chlorophenoxy Acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: Repot verbals ASAP. Thankyou.

SLD 8912-OR Form New 12/89 This Form Will NOT Be Returned With Your Results. Please RETAIN A COPY!

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
Fluorobenzene	25.0 ppb	93.
2-Bromo-1-chloropropane	15.0 ppb	112.5

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
Vinyl chloride	25. ppb	58.7

Analyst: Gary C. Eden
Gary C. Eden
Analyst, Organic Chemistry

Reviewed By: Richard F. Meyerhein 07/10/91
Richard F. Meyerhein
Supervisor, Organic Chemistry Section

98-82-8	Isopropylbenzene	50.0	U
99-87-6	4-Isopropyltoluene	50.0	U
75-09-2	Methylene chloride	250.0	U
90-12-0	1-Methylnaphthalene	50.0	U
91-57-6	2-Methylnaphthalene	50.0	U
91-20-3	Naphthalene	50.0	U
103-65-1	Propylbenzene	50.0	U
100-42-5	Styrene	50.0	U
630-20-6	1,1,1,2-Tetrachloroethane	50.0	U
79-34-5	1,1,2,2-Tetrachloroethane	50.0	U
127-18-4	Tetrachloroethene	50.0	U
109-99-9	Tetrahydrofuran (THF)	250.0	U
108-88-3	Toluene	2945	
87-61-5	1,2,3-Trichlorobenzene	50.0	U
120-82-1	1,2,4-Trichlorobenzene	50.0	U
71-55-6	1,1,1-Trichloroethane	50.0	U
79-00-5	1,1,2-Trichloroethane	50.0	U
79-01-6	Trichloroethene	50.0	U
75-69-4	Trichlorofluoromethane	50.0	U
96-18-4	1,2,3-Trichloropropane	50.0	U
95-63-6	1,2,4-Trimethylbenzene	50.0	U
108-67-8	1,3,5-Trimethylbenzene	50.0	U
75-01-4	Vinyl chloride	50.0	U
95-47-6	o-Xylene	916.1	
N/A	p- & m-Xylene	1794	

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

(Continued on page 4.)

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

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

CAS NO.	COMPOUND	CONC.	QUALIFIER
67-64-1	Acetone	250.0	U
71-43-2	Benzene	1941	
108-86-1	Bromobenzene	50.0	U
74-97-5	Bromochloromethane	50.0	U
75-27-4	Bromodichloromethane	50.0	U
75-25-2	Bromoform	50.0	U
78-93-3	2-Butanone (MEK)	250.0	U
104-51-8	n-Butylbenzene	50.0	U
135-98-8	sec-Butylbenzene	50.0	U
98-06-6	tert-Butylbenzene	50.0	U
1634-04-4	tert-Butyl methyl ether (MTBE)	250.0	U
56-23-5	Carbon tetrachloride	50.0	U
108-90-7	Chlorobenzene	50.0	U
67-66-3	Chloroform	50.0	U
95-49-8	2-Chlorotoluene	50.0	U
106-43-4	4-Chlorotoluene	50.0	U
96-12-8	1,2-Dibromo-3-chloropropane	50.0	U
124-48-1	Dibromochloromethane	50.0	U
106-93-4	1,2-Dibromoethane	50.0	U
74-95-3	Dibromomethane	50.0	U
95-50-1	1,2-Dichlorobenzene	50.0	U
541-73-1	1,3-Dichlorobenzene	50.0	U
106-46-7	1,4-Dichlorobenzene	50.0	U
75-71-8	Dichlorodifluoromethane	50.0	U
75-34-3	1,1-Dichloroethane	50.0	U
107-06-2	1,2-Dichloroethane	50.0	U
75-35-4	1,1-Dichloroethene	50.0	U
156-59-4	cis-1,2-Dichloroethene	50.0	U
156-60-5	trans-1,2-Dichloroethene	50.0	U
78-87-5	1,2-Dichloropropane	50.0	U
142-28-9	1,3-Dichloropropane	50.0	U
590-20-7	2,2-Dichloropropane	50.0	U
563-58-6	1,1-Dichloropropene	50.0	U
1006-01-5	cis-1,3-Dichloropropene	50.0	U
1006-02-6	trans-1,3-Dichloropropene	50.0	U
100-41-4	Ethylbenzene	559.3	
87-68-3	Hexachlorobutadiene	50.0	U

(Continued on page 3.)

STATE OF NEW MEXICO DEPARTMENT OF HEALTH
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

July 10, 1991

Request ID No. 010825

ANALYTICAL REPORT
SLD Accession No. OR-91-2103

Distribution
(_) User 55210
(■) Submitter 521
(※) SLD Files

To: Tony Moreland
EID-UST Bureau/Remedial Action
1190 St. Francis Drive
Santa Fe, NM 87503

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: **A water, purgeable sample submitted to this laboratory on June 17, 1991**

DEMOGRAPHIC DATA

COLLECTION
On: 11-Jun-91 *By:* Mor . . .
At: 16:05 hrs. *In/Near:* Hatch

LOCATION
Halsells Grocery SV-4

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

Parameter	Value	Note	MDL	Units
Halogenated Volatiles (42)	0.00	N	50.00	ppb
Benzene	1941.00		50.00	ppb
Toluene	2945.00		50.00	ppb
Ethylbenzene	559.30		50.00	ppb
p- & m-Xylene	1794.00		50.00	ppb
1,2-Dimethylbenzene	916.10		50.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:
MDL = Minimal Detectable 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: Mary Ellen Date: 6/20/91

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-91-2103
Sample wt/vol: 5.0 (g/mL) mL Lab File ID:
Level: (low/med) Low Date Received: 6/17/91
% Moisture: not dec. N/A dec. N/A Date Extracted: N/A
Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 6/20/91
GPC Cleanup: (Y/N) No pH: Dilution Factor: 50
CONCENTRATION UNITS:

(Continued on page 2.)

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

SLD No. OR91-2104-C

Date Received: 6-17-91

Request ID No. 010826-A

2 User Code #: 5 5 2 1 0

3 Request ID No.:

4 Priority Code #: 3 [If "1" or "2", call EID-SLD Coordinator]

5 Facility Name: Halsells Grocery

6 County: Dona Ana

7 City: Hatch

8 State: NM

9 Sample Location: SV1-5

10 Collected By: Tony Moreland (First / Last) On: 91/06/11 (Date: YY/MM/DD) At: 1810 hrs. (Time: 24 hr. clock, 3:00 pm = 1500 hrs.)

11 Codes: 5 2 1 (Submitter) - (WSS #) (Organization)

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

13 Report To: Name: Tony Moreland

14 Phone #: 827-2566

Address: EID-UST Bureau/Remedial Action

Santa Fe, New Mexico 87501

City, State Zip

15 Sampling Information:
Sample Purpose:
- [ ] Compliance
- [ ] Check
- [ ] Monitoring
- [ ] Special

- [ ] Grab
- [ ] Composite _____ (Composite Time Period)
  - [ ] Flow Proportioned
  - [ ] Equal Aliquot
- [ ] Sample Split w/Permittee
- [ ] Chain of Custody

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

17 Sample Source:
- [ ] Stream
- [ ] Lake
- [ ] Drain
- [ ] Pool
- [ ] WWTP
- [ ] Well; Depth: _____
- [ ] Spring
- [ ] Distribution
- [ ] Point-of-Entry
- [x] Other: Sa Vapor / GW ext.

18 Field Notes/ Sample #: SV5 Encountered GW @ 91' - Sample taken

19 Sample Type:
- [x] Water,
- [ ] Soil,
- [ ] Food,
- [ ] Wastewater,
- [ ] Other _____

This form accompanies a single sample consisting of:
2 - septum vial(s) (volume = 40ml)
____ - glass jugs (volume = _____)
____ - _____ (volume = _____)

20 Preservation:
- [ ] NP No Preservation; Sample stored at room temperature
- [x] 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)
- [x] Other Hg Cl2

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.

Volatile Screens:
- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [x] (754) Aromatic & Halogenated Purgeables (EPA 601 & 602)
- [ ] (765) Mass Spectrometer Purgeables (EPA 624)
- [ ] (766) SDWA Total Trihalomethanes (EPA 501.1)
- [ ] (774) SDWA VOC's I [8 Regulated +] (EPA 502.2)
- [ ] (775) SDWA VOC's II [EDB & DBCP] (EPA 504)

Other Specific Compounds or Classes:
- [x] ( ) MTBE, EDB, EDC
- [ ] ( ) _____
- [ ] ( ) _____

Semivolatile Screens:
- [ ] (763) Acid Extractables
- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables (EPA 625)
- [ ] (756) Base/Neutral/Acid Extractables (EPA 8270)
- [ ] (758) Herbicides, Chlorophenoxy Acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: Report verbally ASAP. Thankyou.

SLD 8912-OR Form New 12/89 This Form Will NOT Be Returned With Your Results. Please RETAIN A COPY!

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
Fluorobenzene	25.0 ppb	88.4
2-Bromo-1-chloropropane	15.0 ppb	103.8

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
Vinyl chloride	25. ppb	58.7

Analyst: _____
Gary C. Eden
Analyst, Organic Chemistry

Reviewed By: _____
Richard F. Meyerhein 07/10/91
Supervisor, Organic Chemistry Section

98-82-8	Isopropylbenzene	200.0	U
99-87-6	4-Isopropyltoluene	200.0	U
75-09-2	Methylene chloride	1000.0	U
90-12-0	1-Methylnaphthalene	200.0	U
91-57-6	2-Methylnaphthalene	200.0	U
91-20-3	Naphthalene	200.0	U
103-65-1	Propylbenzene	200.0	U
100-42-5	Styrene	200.0	U
630-20-6	1,1,1,2-Tetrachloroethane	200.0	U
79-34-5	1,1,2,2-Tetrachloroethane	200.0	U
127-18-4	Tetrachloroethene	200.0	U
109-99-9	Tetrahydrofuran (THF)	1000.0	U
108-88-3	Toluene	3590	
87-61-5	1,2,3-Trichlorobenzene	200.0	U
120-82-1	1,2,4-Trichlorobenzene	200.0	U
71-55-6	1,1,1-Trichloroethane	200.0	U
79-00-5	1,1,2-Trichloroethane	200.0	U
79-01-6	Trichloroethene	200.0	U
75-69-4	Trichlorofluoromethane	200.0	U
96-18-4	1,2,3-Trichloropropane	200.0	U
95-63-6	1,2,4-Trimethylbenzene	200.0	U
108-67-8	1,3,5-Trimethylbenzene	200.0	U
75-01-4	Vinyl chloride	200.0	U
95-47-6	o-Xylene	2003	
N/A	p- & m-Xylene	4042	

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

(Continued on page 4.)

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

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

CAS NO.	COMPOUND	CONC.	QUALIFIER
67-64-1	Acetone	1000.0	U
71-43-2	Benzene	1050	
108-86-1	Bromobenzene	200.0	U
74-97-5	Bromochloromethane	200.0	U
75-27-4	Bromodichloromethane	200.0	U
75-25-2	Bromoform	200.0	U
78-93-3	2-Butanone (MEK)	1000.0	U
104-51-8	n-Butylbenzene	200.0	U
135-98-8	sec-Butylbenzene	200.0	U
98-06-6	tert-Butylbenzene	200.0	U
1634-04-4	tert-Butyl methyl ether (MTBE)	1000.0	U
56-23-5	Carbon tetrachloride	200.0	U
108-90-7	Chlorobenzene	200.0	U
67-66-3	Chloroform	200.0	U
95-49-8	2-Chlorotoluene	200.0	U
106-43-4	4-Chlorotoluene	200.0	U
96-12-8	1,2-Dibromo-3-chloropropane	200.0	U
124-48-1	Dibromochloromethane	200.0	U
106-93-4	1,2-Dibromoethane	200.0	U
74-95-3	Dibromomethane	200.0	U
95-50-1	1,2-Dichlorobenzene	200.0	U
541-73-1	1,3-Dichlorobenzene	200.0	U
106-46-7	1,4-Dichlorobenzene	200.0	U
75-71-8	Dichlorodifluoromethane	200.0	U
75-34-3	1,1-Dichloroethane	200.0	U
107-06-2	1,2-Dichloroethane	200.0	U
75-35-4	1,1-Dichloroethene	200.0	U
156-59-4	cis-1,2-Dichloroethene	200.0	U
156-60-5	trans-1,2-Dichloroethene	200.0	U
78-87-5	1,2-Dichloropropane	200.0	U
142-28-9	1,3-Dichloropropane	200.0	U
590-20-7	2,2-Dichloropropane	200.0	U
563-58-6	1,1-Dichloropropene	200.0	U
1006-01-5	cis-1,3-Dichloropropene	200.0	U
1006-02-6	trans-1,3-Dichloropropene	200.0	U
100-41-4	Ethylbenzene	1131	
87-68-3	Hexachlorobutadiene	200.0	U

(Continued on page 3.)

STATE OF NEW MEXICO DEPARTMENT OF HEALTH
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

July 10, 1991

Request ID No. 010826

ANALYTICAL REPORT
SLD Accession No. OR-91-2104

Distribution
(_) User 55210
(■) Submitter 521
(※) SLD Files

To: Tony Moreland
EID-UST Bureau/Remedial Action
1190 St. Francis Drive
Santa Fe, NM 87503

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: **A water, purgeable sample submitted to this laboratory on June 17, 1991**

DEMOGRAPHIC DATA

COLLECTION
On: 11-Jun-91 *By:* Mor . . .
At: 18:00 hrs. *In/Near:* Hatch

LOCATION
Halsells Grocery SV-5

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

Parameter	Value	Note	MDL	Units
Halogenated Volatiles (42)	0.00	N	200.00	ppb
Benzene	1050.00		200.00	ppb
Toluene	3590.00		200.00	ppb
Ethylbenzene	1131.00		200.00	ppb
p- & m-Xylene	4042.00		200.00	ppb
1,2-Dimethylbenzene	2003.00		200.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

MDL = Minimal Detectable 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: Mary Ellen Date: 6/20/91

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-91-2104
Sample wt/vol: 5.0 (g/mL) mL Lab File ID:
Level: (low/med) Low Date Received: 6/17/91
% Moisture: not dec. N/A dec. N/A Date Extracted: N/A
Extraction: (SepF/Cont/Sonc) N/A Date Analyzed: 6/20/91
GPC Cleanup: (Y/N) No pH: Dilution Factor: 200
CONCENTRATION UNITS:

(Continued on page 2.)

Site Map & Soil Vapor Survey 6/11/91