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

REPORT TO CLIENT: ☒

Rob Pine
NMED/Assessment & Abatement Section
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9601984

REQUEST ID No.: 149678
RECEIVED AT SLD: 6/13/96
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 6/12/96 TIME: _____ BY: Pin
SAMPLING LOCATION: Sparton VP-1 47 feet
Sample Type: Soil REPORTING UNITS: ug/Kg

Remarks:
See Laboratory Remarks.

EPA METHOD 8021 VOLATILES BY GAS CHROMATOGRAHY (PID/ELCD)

ANALYSIS No.: OR- 9601984

DATE EXTRACTED: N/A
DATE ANALYZED: 6/19/96 7 Days: Within EPA Analysis Time
SAMPLE DRY WEIGHT (g): 9.06
0
SAMPLE PRESERVATION:

SLD BATCH No.: 279
DILUTION FACTOR: 500.00
REQUEST ID No.: 149678

CAS #	ANALYTE NAME	CONC. (ug/Kg)	QUAL.	SDL
71-43-2	Benzene		U	200.0
108-86-1	Bromobenzene		U	200.0
74-97-5	Bromochloromethane		U	200.0
75-27-4	Bromodichloromethane*		U	200.0
75-25-2	Bromoform*		U	200.0
24-83-9	Bromomethane		U	200.0
78-93-3	2-Butanone (MEK)		U	200.0
104-51-8	n-Butylbenzene		U	200.0
135-98-8	sec-Butylbenzene		U	200.0
98-06-6	tert-Butylbenzene		U	200.0
1634-04-4	tert-Butyl methyl ether (MTBE)		U	200.0
56-23-5	Carbon tetrachloride		U	200.0
108-90-7	Chlorobenzene (monochlorobenzene)		U	200.0
75-00-3	Chloroethane		U	400.0
67-66-3	Chloroform*		U	200.0
74-87-3	Chloromethane		U	200.0
95-49-8	2-Chlorotoluene		U	200.0
106-43-4	4-Chlorotoluene		U	200.0
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	200.0
124-48-1	Dibromochloromethane*		U	200.0
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	200.0
74-95-3	Dibromomethane		U	200.0
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)		U	200.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)		U	200.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)		U	200.0
75-71-8	Dichlorodifluoromethane		U	200.0
75-34-3	1,1-Dichloroethane		U	200.0
107-06-2	1,2-Dichloroethane		U	200.0
75-35-4	1,1-Dichloroethene		U	200.0
156-59-2	cis-1,2-Dichloroethene		U	200.0
156-60-5	trans-1,2-Dichloroethene		U	200.0
78-87-5	1,2-Dichloropropane		U	200.0
142-28-9	1,3-Dichloropropane		U	200.0
590-20-7	2,2-Dichloropropane		U	200.0
563-58-6	1,1-Dichloropropene		U	200.0
1006-01-5	cis-1,3-Dichloropropene		U	200.0

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OGC-001951

1006-02-6	trans-1,3-Dichloropropene		U	200.0
100-41-4	Ethylbenzene		U	200.0
87-68-3	Hexachlorobutadiene		U	200.0
98-82-8	Isopropylbenzene		U	200.0
99-87-6	4-Isopropyltoluene		U	200.0
75-09-2	Methylene chloride (Dichloromethane)		U	200.0
91-20-3	Naphthalene		U	200.0
103-65-1	Propylbenzene		U	200.0
100-42-5	Styrene		U	200.0
630-20-6	1,1,1,2-Tetrachloroethane		U	200.0
79-34-5	1,1,2,2-Tetrachloroethane		U	200.0
127-18-4	Tetrachloroethene		U	200.0
109-99-9	Tetrahydrofuran (THF)		U	800.0
108-88-3	Toluene		U	200.0
87-61-5	1,2,3-Trichlorobenzene		U	200.0
120-82-1	1,2,4-Trichlorobenzene		U	200.0
71-55-6	1,1,1-Trichloroethane		U	200.0
79-00-5	1,1,2-Trichloroethane		U	200.0
79-01-6	Trichloroethene	110.0	J	200.0
75-69-4	Trichlorofluoromethane		U	200.0
96-18-4	1,2,3-Trichloropropane		U	200.0
95-63-6	1,2,4-Trimethylbenzene		U	200.0
108-67-8	1,3,5-Trimethylbenzene		U	200.0
75-01-4	Vinyl chloride		U	400.0
95-47-6	o-Xylene#		U	200.0
N/A	p- & m-Xylene#		U	200.0
N/A	#Total Xylenes#		U	200.0
N/A	*Total Trihalomethanes*	0.0	U	200.0

Laboratory Remarks: This sample was analyzed by diluting a methanol extract with laboratory reagent water and running by purge and trap analysis.
% Moisture of sample: 2.5%

LABORATORY BATCH QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
	2-Bromochlorobenzene (PhotoIonization Detector Surrogate)	24.91	99.6%
	2-Bromochlorobenzene(Electrolytic Conductivity Detector Surrogate)	25.38	101.5%

LABORATORY FORTIFIED BLANK RECOVERIES

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

COMPOUND	CONCENTRATION (mg/L)	% RECOVERY
Vinylchloride	20	50
Chloroethane	20	68

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blank with the ecxeption of the compound(s) listed below:

COMPOUND	CONCENTRATION (ug/L)
Acetone	8

ANALYST: S. A. Mustafa QC APPROVED BY: K. Sherrell

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- MCL Maximum Contamination Level Allowed by EPA for SDWA regulated analytes
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

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 OR96-1984-C

Date Received:

Request ID No. 149678-D

2 User Code #: 55321

3 Request ID No.:

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

5 Facility Name: Sparton

6 County: Bernalillo

7 City: Albuquerque

8 State: NM

9 Sample Location: Sparton VP-1 47 Feet

10 Collected By: Rob Pine (First / Last) On: 96/06/12 (Date: (YY/MM/DD)) At: ___ hrs. (Time: 24 hr. clock 3:00 pm = 1500 hrs.)

11 Codes: 418 (Submitter) - (WSS #) (Organization)

12 Latitude (DDMMSS) ° ' " Longitude (DDDMMSS) ° ' " 2 Digit ID (If needed)

13 Report To: Name Rob Pine

14 Phone #: 827-0178

Address: NMED / Assessment & Abatement Section
P.O. Box 26110
City, State Zip: Santa Fe, NM 87502

15 Sample Purpose:
- ☐ - Compliance
- ☐ - NMED Monitoring
- ☐ - Confirmation
- ☐ - 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/cm @ Temperature: ___ °C, 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:

Project Code: 515

19 Sample Type: ☐ - Water ☐ - Wastewater { ☐ - Unchlorinated ☐ - Chlorinated
■ - Soil, ☐ - Food, ☐ - Other ___

This form accompanies a single sample consisting of:
3 - 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-$HgCl_2$ 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. Cmpds. (SLD 758/760)
- ☐ - (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: 50:5 [illegible]

A small amount of methanol spilled from bottle marked with *

OGC-001953

SLD 8912-OR Revised 2/93

Please RETAIN A COPY of your completed form

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT: ☒

Rob Pine
NMED/Assessment & Abatement Section
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9601983
REQUEST ID No.: 149677
RECEIVED AT SLD: 6/13/96
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 6/12/96 TIME: _____ BY: Pin
SAMPLING LOCATION: Sparton VP-1 37 feet
Sample Type: Soil REPORTING UNITS: ug/Kg

Remarks:
See Laboratory Remarks.

EPA METHOD 8021 VOLATILES BY GAS CHROMATOGRAHY (PID/ELCD)

DATE EXTRACTED: N/A
DATE ANALYZED: 6/14/96 2 Days: Within EPA Analysis Time
SAMPLE DRY WEIGHT (g): 9.92
0

ANALYSIS No.: OR- 9601983
SLD BATCH No.: 279
DILUTION FACTOR: 500.00
REQUEST ID No.: 149677

SAMPLE PRESERVATION:

CAS #	ANALYTE NAME	CONC. (ug/Kg)	QUAL.	SDL
71-43-2	Benzene		U	500.0
108-86-1	Bromobenzene		U	500.0
74-97-5	Bromochloromethane		U	500.0
75-27-4	Bromodichloromethane*		U	500.0
75-25-2	Bromoform*		U	500.0
24-83-9	Bromomethane		U	500.0
78-93-3	2-Butanone (MEK)	5280.0		500.0
104-51-8	n-Butylbenzene		U	500.0
135-98-8	sec-Butylbenzene		U	500.0
98-06-6	tert-Butylbenzene		U	500.0
1634-04-4	tert-Butyl methyl ether (MTBE)		U	500.0
56-23-5	Carbon tetrachloride		U	500.0
108-90-7	Chlorobenzene (monochlorobenzene)		U	500.0
75-00-3	Chloroethane		U	500.0
67-66-3	Chloroform*		U	500.0
74-87-3	Chloromethane		U	500.0
95-49-8	2-Chlorotoluene		U	500.0
106-43-4	4-Chlorotoluene		U	500.0
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	500.0
124-48-1	Dibromochloromethane*		U	500.0
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	500.0
74-95-3	Dibromomethane		U	500.0
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)		U	500.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)		U	500.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)		U	500.0
75-71-8	Dichlorodifluoromethane		U	500.0
75-34-3	1,1-Dichloroethane		U	500.0
107-06-2	1,2-Dichloroethane		U	500.0
75-35-4	1,1-Dichloroethene		U	500.0
156-59-2	cis-1,2-Dichloroethene		U	500.0
156-60-5	trans-1,2-Dichloroethene		U	500.0
78-87-5	1,2-Dichloropropane		U	500.0
142-28-9	1,3-Dichloropropane		U	500.0
590-20-7	2,2-Dichloropropane		U	500.0
563-58-6	1,1-Dichloropropene		U	500.0
1006-01-5	cis-1,3-Dichloropropene		U	500.0

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OGC-001954

1006-02-6	trans-1,3-Dichloropropene		U	500.0
100-41-4	Ethylbenzene		U	500.0
87-68-3	Hexachlorobutadiene		U	500.0
98-82-8	Isopropylbenzene		U	500.0
99-87-6	4-Isopropyltoluene		U	500.0
75-09-2	Methylene chloride (Dichloromethane)		U	1000.0
91-20-3	Naphthalene		U	500.0
103-65-1	Propylbenzene		U	500.0
100-42-5	Styrene		U	500.0
630-20-6	1,1,1,2-Tetrachloroethane		U	500.0
79-34-5	1,1,2,2-Tetrachloroethane		U	500.0
127-18-4	Tetrachloroethene		U	500.0
109-99-9	Tetrahydrofuran (THF)		U	5000.0
108-88-3	Toluene		U	500.0
87-61-5	1,2,3-Trichlorobenzene		U	500.0
120-82-1	1,2,4-Trichlorobenzene		U	500.0
71-55-6	1,1,1-Trichloroethane		U	500.0
79-00-5	1,1,2-Trichloroethane		U	500.0
79-01-6	Trichloroethene		U	500.0
75-69-4	Trichlorofluoromethane		U	500.0
96-18-4	1,2,3-Trichloropropane		U	500.0
95-63-6	1,2,4-Trimethylbenzene		U	500.0
108-67-8	1,3,5-Trimethylbenzene		U	500.0
75-01-4	Vinyl chloride		U	500.0
95-47-6	o-Xylene*		U	500.0
N/A	p- & m-Xylene*		U	500.0
N/A	*Total Xylenes*		U	500.0
N/A	*Total Trihalomethanes*	0.0	U	500.0

Laboratory Remarks: This sample was analyzed by diluting a methanol extract with laboratory reagent water and running by purge and trap analysis.
% Moisture of sample: 4.1%
This sample was re-analyzed on 6/19/96 at a 1:2500 dilution, giving a result for Acetone of 160,000 ppb. Acetone was detected in the Laboratory Reagent Blank at a concentration equivalent to 4000 ppb, when sample dilutions are taken into account.

LABORATORY BATCH QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
	2-Bromochlorobenzene (Photoionization Detector Surrogate)	24.1	96.4%
	2-Bromochlorobenzene(Electrolytic Conductivity Detector Surrogate)	26.2	104.8%

LABORATORY FORTIFIED BLANK RECOVERIES

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

COMPOUND	CONCENTRATION (mg/L)	% RECOVERY
Vinylchloride	20	50
Chloroethane	20	68

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blank with the ecxeption of the compound(s) listed below:

COMPOUND	CONCENTRATION (ug/L)
Acetone	8

ANALYST: S. A. Mustafa QC APPROVED BY: K. Sherrell

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- MCL Maximum Contamination Level Allowed by EPA for SDWA regulated analytes
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

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. OR96-1983-C

Date Received: _____

Request ID No. 149677-D

2 User Code #: 55321

3 Request ID No.:

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

5 Facility Name: Sparton

6 County: Bernalillo

7 City: Albuquerque

8 State: NM

9 Sample Location: Sparton VP-1 37 Feet

10 Collected By: Rob Pine (First / Last) On: 96/06/12 (Date: (YY/MM/DD)) At: ____ hrs. (Time: 24 hr. clock 3:00 pm = 1500 hrs.)

11 Codes: 418 (Submitter) - (WSS #) (Organization)

12 Latitude (DDMMSS) ° ' " Longitude (DDDMMSS) ° ' " 2 Digit ID (If needed)

13 Report To: Name Rob Pine

14 Phone #: 827-0178

Address: NMED / Assessment & Abatement Section
P.O. Box 26110
City, State Zip: Santa Fe, NM 87502

15 Sample Purpose:
- ☐ - Compliance
- ☐ - NMED Monitoring
- ☐ - Confirmation
- ☐ - 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/cm @ Temperature: ____ °C, 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:

Project Code: 515 __ __ __ __ __

19 Sample Type: ☐ - Water ☐ - Wastewater { ☐ - Unchlorinated ☐ - Chlorinated
■ - Soil, ☐ - Food, ☐ - Other ____

This form accompanies a single sample consisting of:
3 - 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-$HgCl_2$ 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. Cmpds. (SLD 758/760)
- ☐ - (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

96 JUN 13 AM 9:04

SLD 6912-OR Revised 2/93

OGC-001956

Please RETAIN A COPY of your completed form

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT: ☑

Rob Pine
NMED/Assessment & Abatement Section
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9601982
REQUEST ID No.: 149676
RECEIVED AT SLD: 6/13/96
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 6/12/96 TIME: _____ BY: Pin
SAMPLING LOCATION: Sparton VP-1 28 feet
Sample Type: Soil REPORTING UNITS: ug/Kg

Remarks:
See Laboratory Remarks.

EPA METHOD 8021 VOLATILES BY GAS CHROMATOGRAHY (PID/ELCD)

DATE EXTRACTED: N/A
DATE ANALYZED: 6/14/96 2 Days: Within EPA Analysis Time
SAMPLE DRY WEIGHT (g): 9.95
0

ANALYSIS No.: OR- 9601982
SLD BATCH No.: 279
DILUTION FACTOR: 500.00
REQUEST ID No.: 149676

SAMPLE PRESERVATION:

CAS #	ANALYTE NAME	CONC. (ug/Kg)	QUAL.	SDL
71-43-2	Benzene		U	500.0
108-86-1	Bromobenzene		U	500.0
74-97-5	Bromochloromethane		U	500.0
75-27-4	Bromodichloromethane*		U	500.0
75-25-2	Bromoform*		U	500.0
24-83-9	Bromomethane		U	500.0
78-93-3	2-Butanone (MEK)	18000.0		500.0
104-51-8	n-Butylbenzene		U	500.0
135-98-8	sec-Butylbenzene		U	500.0
98-06-6	tert-Butylbenzene		U	500.0
1634-04-4	tert-Butyl methyl ether (MTBE)		U	500.0
56-23-5	Carbon tetrachloride		U	500.0
108-90-7	Chlorobenzene (monochlorobenzene)		U	500.0
75-00-3	Chloroethane		U	500.0
67-66-3	Chloroform*		U	500.0
74-87-3	Chloromethane		U	500.0
95-49-8	2-Chlorotoluene		U	500.0
106-43-4	4-Chlorotoluene		U	500.0
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	500.0
124-48-1	Dibromochloromethane*		U	500.0
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	500.0
74-95-3	Dibromomethane		U	500.0
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)		U	500.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)		U	500.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)		U	500.0
75-71-8	Dichlorodifluoromethane		U	500.0
75-34-3	1,1-Dichloroethane		U	500.0
107-06-2	1,2-Dichloroethane		U	500.0
75-35-4	1,1-Dichloroethene		U	500.0
156-59-2	cis-1,2-Dichloroethene		U	500.0
156-60-5	trans-1,2-Dichloroethene		U	500.0
78-87-5	1,2-Dichloropropane		U	500.0
142-28-9	1,3-Dichloropropane		U	500.0
590-20-7	2,2-Dichloropropane		U	500.0
563-58-6	1,1-Dichloropropene		U	500.0
1006-01-5	cis-1,3-Dichloropropene		U	500.0

JUL 1996 RECEIVED

1006-02-6	trans-1,3-Dichloropropene		U	500.0
100-41-4	Ethylbenzene		U	500.0
87-68-3	Hexachlorobutadiene		U	500.0
98-82-8	Isopropylbenzene		U	500.0
99-87-6	4-Isopropyltoluene		U	500.0
75-09-2	Methylene chloride (Dichloromethane)		U	1000.0
91-20-3	Naphthalene		U	500.0
103-65-1	Propylbenzene		U	500.0
100-42-5	Styrene		U	500.0
630-20-6	1,1,1,2-Tetrachloroethane		U	500.0
79-34-5	1,1,2,2-Tetrachloroethane		U	500.0
127-18-4	Tetrachloroethene		U	500.0
109-99-9	Tetrahydrofuran (THF)		U	5000.0
108-88-3	Toluene	900.0		500.0
87-61-5	1,2,3-Trichlorobenzene		U	500.0
120-82-1	1,2,4-Trichlorobenzene		U	500.0
71-55-6	1,1,1-Trichloroethane		U	500.0
79-00-5	1,1,2-Trichloroethane		U	500.0
79-01-6	Trichloroethene		U	500.0
75-69-4	Trichlorofluoromethane		U	500.0
96-18-4	1,2,3-Trichloropropane		U	500.0
95-63-6	1,2,4-Trimethylbenzene		U	500.0
108-67-8	1,3,5-Trimethylbenzene		U	500.0
75-01-4	Vinyl chloride		U	500.0
95-47-6	o-Xylene*	310.0	J	500.0
N/A	p- & m-Xylene*	340.0	J	500.0
N/A	*Total Xylenes*	650.0		500.0
N/A	*Total Trihalomethanes*	0.0	U	500.0

Laboratory Remarks: This sample was analyzed by diluting a methanol extract with laboratory reagent water and running by purge and trap analysis.
% Moisture of sample: 4.3%
This sample was re-analyzed on 6/19/96 at a 1:5000 dilution, giving a result for Acetone of 364,000 ppb. Acetone was detected in the Laboratory Reagent Blank at a concentration equivalent to 4000 ppb, when sample dilutions are taken into account.

LABORATORY BATCH QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
	2-Bromochlorobenzene (Photoionization Detector Surrogate)	24.11	96.4%
	2-Bromochlorobenzene(Electrolytic Conductivity Detector Surrogate)	27.92	111.7%

LABORATORY FORTIFIED BLANK RECOVERIES

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

COMPOUND	CONCENTRATION (mg/L)	% RECOVERY
Vinylchloride	20	50
Chloroethane	20	68

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blank with the ecxeption of the compound(s) listed below:

COMPOUND	CONCENTRATION (ug/L)
Acetone	8

ANALYST: S. A. Mustafa QC APPROVED BY: K. Sherrell

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- MCL Maximum Contamination Level Allowed by EPA for SDWA regulated analytes
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

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. OR96- 1982-C

Date Received:

Request ID No. 149676-D

2 User Code #: 5 5 3 2 1

3 Request ID No.:

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

5 Facility Name: Sparton

6 County: Bernalillo

7 City: Albuquerque

8 State: NM

9 Sample Location: Sparton VP-1 28 Fleet

10 Collected By: Rob Pine (First / Last) On: 96/06/12 (Date: YY/MM/DD) At: ___ hrs. (Time: 24 hr. clock 3:00 pm = 1500 hrs.)

11 Codes: 4 1 8 (Submitter) WSS # Organization

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

13 Report To: Name Rob Pine

14 Phone #: 827-0178

Address: NMED / Assessment & Abatement Section
P.O. Box 26110

City, State Zip: Santa Fe, NM 87502

15 Sample Purpose:
- [ ] Compliance
- [ ] NMED Monitoring
- [ ] Confirmation
- [ ] 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/cm @ Temperature: ____ °C, 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:
Project Code: 515

19 Sample Type:
- [ ] Water
- [ ] Wastewater
- [ ] Unchlorinated
- [ ] Chlorinated
- [x] Soil, [ ] Food, [ ] Other ____

This form accompanies a single sample consisting of:
3 - 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-$HgCl_2$ — 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)
- [x] (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:

10:5 AM 21 MAR 96

Please RETAIN A COPY of your completed form

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

REPORT TO CLIENT: ☒

Rob Pine
NMED/Assessment & Abatement Section
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9601981
REQUEST ID No.: 149675
RECEIVED AT SLD: 6/13/96
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 6/12/96 TIME: _____ BY: Pin
SAMPLING LOCATION: Sparton VP-1 1 8.4 feet
Sample Type: Soil REPORTING UNITS: ug/Kg

Remarks:
See Laboratory Remarks.

EPA METHOD 8021 VOLATILES BY GAS CHROMATOGRAHY (PID/ELCD)

DATE EXTRACTED: N/A
DATE ANALYZED: 6/14/96 2 Days: Within EPA Analysis Time
SAMPLE DRY WEIGHT (g): 10.04
0
SAMPLE PRESERVATION:

ANALYSIS No.: OR- 9601981
SLD BATCH No.: 279
DILUTION FACTOR: 500.00
REQUEST ID No.: 149675

CAS #	ANALYTE NAME	CONC. (ug/Kg)	QUAL.	SDL
71-43-2	Benzene		U	500.0
108-86-1	Bromobenzene		U	500.0
74-97-5	Bromochloromethane		U	500.0
75-27-4	Bromodichloromethane*		U	500.0
75-25-2	Bromoform*		U	500.0
24-83-9	Bromomethane		U	500.0
78-93-3	2-Butanone (MEK)	4700.0		500.0
104-51-8	n-Butylbenzene		U	500.0
135-98-8	sec-Butylbenzene		U	500.0
98-06-6	tert-Butylbenzene		U	500.0
1634-04-4	tert-Butyl methyl ether (MTBE)		U	500.0
56-23-5	Carbon tetrachloride		U	500.0
108-90-7	Chlorobenzene (monochlorobenzene)		U	500.0
75-00-3	Chloroethane		U	500.0
67-66-3	Chloroform*		U	500.0
74-87-3	Chloromethane		U	500.0
95-49-8	2-Chlorotoluene		U	500.0
106-43-4	4-Chlorotoluene		U	500.0
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	500.0
124-48-1	Dibromochloromethane*		U	500.0
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	500.0
74-95-3	Dibromomethane		U	500.0
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)		U	500.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)		U	500.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)		U	500.0
75-71-8	Dichlorodifluoromethane		U	500.0
75-34-3	1,1-Dichloroethane		U	500.0
107-06-2	1,2-Dichloroethane		U	500.0
75-35-4	1,1-Dichloroethene		U	500.0
156-59-2	cis-1,2-Dichloroethene		U	500.0
156-60-5	trans-1,2-Dichloroethene		U	500.0
78-87-5	1,2-Dichloropropane		U	500.0
142-28-9	1,3-Dichloropropane		U	500.0
590-20-7	2,2-Dichloropropane		U	500.0
563-58-6	1,1-Dichloropropene		U	500.0
1006-01-5	cis-1,3-Dichloropropene		U	500.0

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OGC-001960 –

1006-02-6	trans-1,3-Dichloropropene		U	500.0
100-41-4	Ethylbenzene	250.0	J	500.0
87-68-3	Hexachlorobutadiene		U	500.0
98-82-8	Isopropylbenzene		U	500.0
99-87-6	4-Isopropyltoluene		U	500.0
75-09-2	Methylene chloride (Dichloromethane)		U	500.0
91-20-3	Naphthalene		U	500.0
103-65-1	Propylbenzene		U	500.0
100-42-5	Styrene		U	500.0
630-20-6	1,1,1,2-Tetrachloroethane		U	500.0
79-34-5	1,1,2,2-Tetrachloroethane		U	500.0
127-18-4	Tetrachloroethene		U	500.0
109-99-9	Tetrahydrofuran (THF)		U	5000.0
108-88-3	Toluene	1700.0		500.0
87-61-5	1,2,3-Trichlorobenzene		U	500.0
120-82-1	1,2,4-Trichlorobenzene		U	500.0
71-55-6	1,1,1-Trichloroethane		U	500.0
79-00-5	1,1,2-Trichloroethane		U	500.0
79-01-6	Trichloroethene	400.0	J	500.0
75-69-4	Trichlorofluoromethane		U	500.0
96-18-4	1,2,3-Trichloropropane		U	500.0
95-63-6	1,2,4-Trimethylbenzene		U	500.0
108-67-8	1,3,5-Trimethylbenzene		U	500.0
75-01-4	Vinyl chloride		U	500.0
95-47-6	o-Xylene#	600.0		500.0
N/A	p- & m-Xylene#	750.0		500.0
N/A	#Total Xylenes#	1350.0		500.0
N/A	*Total Trihalomethanes*	0.0	U	500.0

Laboratory Remarks: This sample was analyzed by diluting a methanol extract with laboratory reagent water and running by purge and trap analysis.
% Moisture of sample: 3.8 %
This sample was re-analyzed on 6/19/96 at a 1:1670 dilution, giving a result for Acetone of 74,000 ppb. Acetone was detected in the Laboratory Reagent Blank at a concentration equivalent to 4000 ppb, when sample dilutions are taken into account.

LABORATORY BATCH QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
	2-Bromochlorobenzene (Photolonization Detector Surrogate)	24.94	99.8%
	2-Bromochlorobenzene(Electrolytic Conductivity Detector Surrogate)	27.37	109.5%

LABORATORY FORTIFIED BLANK RECOVERIES

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

COMPOUND	CONCENTRATION (mg/L)	% RECOVERY
Vinyl chloride	20	50
Chloroethane	20	68

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blank with the ecxeption of the compound(s) listed below:

COMPOUND	CONCENTRATION (ug/L)
Acetone	8

ANALYST: S. A. Mustafa QC APPROVED BY: K. Sherrell

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- MCL Maximum Contamination Level Allowed by EPA for SDWA regulated analytes
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

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

SLD No. 1 OR96- 1981-C

Date Received:

Request ID No. 149675-D

2 User Code #: 5,5,3,2,1	3 Request ID No.:	4 Priority Code #: 3 [If "1" or "2", call ED-SLD Coordinator]	
5 Facility Name: Sparton	6 County: Bernalillo	7 City: Albuquerque	8 State NM
9 Sample Location: Sparton VP-1 18.4 Feet			
10 Collected By: Rob Pine (First / Last)	On: 96/06/12 (Date: YY/MM/DD)	At: ___ hrs. (Time: 24 hr. clock 3:00 pm = 1500 hrs.)	

11 Codes: 4 1 8 (Submitter) - (WSS #) (Organization)

12 Latitude (DDMMSS) ° ' "
Longitude (DDDMMSS) ° ' "
2 Digit ID (If needed)

13 Report To: Name Rob Pine
14 Phone #: 827-0178

Address: NMED / Assessment & Abatement Section
P.O. Box 26110
City, State Zip: Santa Fe, NM 87502

15 Sampling Information:
Sample Purpose:
- ☐ Compliance
- ☐ NMED Monitoring
- ☐ Confirmation
- ☐ Special

- ☐ Grab
- ☐ Composite ____ (Composite Time Period)
- ☐ Flow Proportioned
- ☐ Equal Aliquot
- ☐ Sample Split w/Permittee
- ☐ Chain of Custody

16 Field Data: pH: ____, Conductivity: ____ umhos/cm @ Temperature: ____ °C, 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:
Project Code: 515 ___ ___ ___ ___ ___

19 Sample Type: ☐ - Water ☐ - Wastewater { ☐ - Unchlorinated ☐ - Chlorinated
■ - Soil, ☐ - Food, ☐ - Other ____
This form accompanies a single sample consisting of:
3 - 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-$HgCl_2$ 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. Cmpds. (SLD 758/760)
- ☐ - (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

96 JUN 13 AM 5:04

Please RETAIN A COPY of your completed form

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700

700 Camino de Salud, NE
[505] 841-2500

ORGANIC CHEMISTRY SECTION [505] 841-2570

REPORT TO CLIENT:

Rob Pine
NMED/Assessment & Abatement Section
P.O. Box 26110
Santa Fe, NM 87502

SLD No.: OR- 9601980

REQUEST ID No.: 149674
RECEIVED AT SLD: 6/13/96
☐ SLD COPY USER 55321

SAMPLE COLLECTION: DATE: 6/12/96 TIME: _____ BY: Pin
SAMPLING LOCATION: Sparton VP-1 8.5 feet
Sample Type: Soil REPORTING UNITS: ug/Kg

Remarks:
See Laboratory Remarks.

EPA METHOD 8021 VOLATILES BY GAS CHROMATOGRAHY (PID/ELCD)

DATE EXTRACTED: N/A
DATE ANALYZED: 6/14/96 2 Days: Within EPA Analysis Time
SAMPLE DRY WEIGHT (g): 9.28
0
SAMPLE PRESERVATION:

ANALYSIS No.: OR- 9601980

SLD BATCH No.: 279
DILUTION FACTOR: 500.00
REQUEST ID No.: 149674

CAS #	ANALYTE NAME	CONC. (ug/Kg)	QUAL.	SDL
71-43-2	Benzene		U	600.0
108-86-1	Bromobenzene		U	600.0
74-97-5	Bromochloromethane		U	600.0
75-27-4	Bromodichloromethane*		U	600.0
75-25-2	Bromoform*		U	600.0
24-83-9	Bromomethane		U	600.0
78-93-3	2-Butanone (MEK)		U	600.0
104-51-8	n-Butylbenzene		U	600.0
135-98-8	sec-Butylbenzene		U	600.0
98-06-6	tert-Butylbenzene		U	600.0
1634-04-4	tert-Butyl methyl ether (MTBE)		U	600.0
56-23-5	Carbon tetrachloride		U	600.0
108-90-7	Chlorobenzene (monochlorobenzene)		U	600.0
75-00-3	Chloroethane		U	600.0
67-66-3	Chloroform*		U	600.0
74-87-3	Chloromethane		U	600.0
95-49-8	2-Chlorotoluene		U	600.0
106-43-4	4-Chlorotoluene		U	600.0
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		U	600.0
124-48-1	Dibromochloromethane*		U	600.0
106-93-4	1,2-Dibromoethane (Ethylene dibromide (EDB))		U	600.0
74-95-3	Dibromomethane		U	600.0
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)		U	600.0
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)		U	600.0
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)		U	600.0
75-71-8	Dichlorodifluoromethane		U	600.0
75-34-3	1,1-Dichloroethane		U	600.0
107-06-2	1,2-Dichloroethane		U	600.0
75-35-4	1,1-Dichloroethene	900.0		600.0
156-59-2	cis-1,2-Dichloroethene		U	600.0
156-60-5	trans-1,2-Dichloroethene		U	600.0
78-87-5	1,2-Dichloropropane		U	600.0
142-28-9	1,3-Dichloropropane		U	600.0
590-20-7	2,2-Dichloropropane		U	600.0
563-58-6	1,1-Dichloropropene		U	600.0
1006-01-5	cis-1,3-Dichloropropene		U	600.0

RECEIVED

1006-02-6	trans-1,3-Dichloropropene		U	600.0
100-41-4	Ethylbenzene	8000.0		600.0
87-68-3	Hexachlorobutadiene		U	600.0
98-82-8	Isopropylbenzene		U	600.0
99-87-6	4-Isopropyltoluene		U	600.0
75-09-2	Methylene chloride (Dichloromethane)		U	1200.0
91-20-3	Naphthalene	800.0		250.0
103-65-1	Propylbenzene		U	600.0
100-42-5	Styrene		U	600.0
630-20-6	1,1,1,2-Tetrachloroethane		U	600.0
79-34-5	1,1,2,2-Tetrachloroethane		U	600.0
127-18-4	Tetrachloroethene	4200.0		600.0
109-99-9	Tetrahydrofuran (THF)	8500.0		6000.0
108-88-3	Toluene	5500.0		600.0
87-61-5	1,2,3-Trichlorobenzene		U	600.0
120-82-1	1,2,4-Trichlorobenzene		U	600.0
71-55-6	1,1,1-Trichloroethane	12000.0		600.0
79-00-5	1,1,2-Trichloroethane		U	600.0
79-01-6	Trichloroethene	87000.0		2000.0
75-69-4	Trichlorofluoromethane		U	600.0
96-18-4	1,2,3-Trichloropropane		U	600.0
95-63-6	1,2,4-Trimethylbenzene		U	600.0
108-67-8	1,3,5-Trimethylbenzene		U	600.0
75-01-4	Vinyl chloride		U	600.0
95-47-6	o-Xylene#	17000.0		600.0
N/A	p- & m-Xylene#	1000.0		600.0
N/A	#Total Xylenes#	18000.0		600.0
N/A	*Total Trihalomethanes*	0.0	U	600.0

Laboratory Remarks: This sample was analyzed by diluting a methanol extract with laboratory reagent water and running by purge and trap analysis.
% Moisture of sample: 8.2 %
This sample was re-analyzed on 6/19/96 at a 1:1670 dilution, giving a result for Trichloroethene of 87,000 ppb.

LABORATORY BATCH QUALITY CONTROL SUMMARY

SURROGATE RECOVERIES:	SURROGATE COMPOUNDS	CONCENTRATION	% RECOVERY
	2-Bromochlorobenzene (Photoionization Detector Surrogate)	24.7	98.8%
	2-Bromochlorobenzene(Electrolytic Conductivity Detector Surrogate)	26.39	105.6%

LABORATORY FORTIFIED BLANK RECOVERIES

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

COMPOUND	CONCENTRATION (mg/L)	% RECOVERY
Vinylchloride	20	50
Chloroethane	20	68

LABORATORY BLANKS

No target compounds were detected above the sample detection limit in laboratory blank with the ecxeption of the compound(s) listed below:

COMPOUND	CONCENTRATION (ug/L)
Acetone	8

ANALYST: S. A. Mustafa QC APPROVED BY: K. Sherrell

DEFINITIONS

- ** Concentration Exceeds EPA's allowable Maximum Contamination Level
- CAS# Chemical Abstract Services Number - Unique number to help identify analytes listed by different names
- CONC. Concentration (ug/L) of analyte actually detected in the sample
- QUAL Qualifier of analytical results as follows:
  - B Analyte was detected in laboratory blank
  - J Analyte was detected at a level below which an accurate quanitation can be given (~5 * SDL)
  - U No analyte was detected above the Sample Detection Limit.
- MCL Maximum Contamination Level Allowed by EPA for SDWA regulated analytes
- SDL Sample Detection Limit - The lowest concentration which can be differentiated from Zero with 99% confidence taking sample size (compositing) into account.
- ug/L Concentration Units - micrograms per liter which is approximately equivalent to Parts Per Billion (ppb)

SCIENTIFIC LABORATORY DIVISION
NO DE SALUD NE, ALBUQUERQUE, NM 87106
Organic Chemistry Section - Telephone. (505) 841-2570

SLD No. OR96- 1980-C

Date Received:

Request ID No. 149674-D

2 User Code #: 55321

3 Request ID No.:

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

5 Facility Name: Sparton

6 County: Bernalillo

7 City: Albuquerque

8 State: NM

9 Sample Location: Sparton VP-1 8.5 Feet

10 Collected By: Rob Pine (First / Last) On: 96/06/12 (Date: YY/MM/DD) At: hrs. (Time: 24 hr. clock 3:00 pm = 1500 hrs.)

11 Codes: Submitter: 418 WSS #: - Organization:

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

13 Report To: Name Rob Pine

14 Phone #: 827-0178

Address: NMED / Assessment & Abatement Section
P.O. Box 26110
City, State, Zip: Santa Fe, NM 87502

15 Sampling Information:
Sample Purpose:
- Compliance
- NMED Monitoring
- Confirmation
- Special

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

16 Field Data: pH: , Conductivity: umhos/cm @ Temperature: °C, 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:
Project Code: 515

19 Sample Type:
- Water
- Wastewater
- Unchlorinated
- Chlorinated
- Soil, - Food, - Other
This form accompanies a single sample consisting of:
3 - 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-$HgCl_2$ — 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. Cmpds. (SLD 758/760)
- (782) Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

96 JUN 13 AM 8:04

Please RETAIN A COPY of your completed form