

1R - 394 -1

REPORTS

DATE:

2006 - 2004



CITY OF LOVINGTON

214 South Love ~ Post Office Box 1269
Lovington, New Mexico 88260

BUSINESS

505.396.2884

FACSIMILE

505.396.6328

E-MAIL

admin@lovington-nm.org

CITY OFFICIALS

PAT WISE

City Manager

CHARLES KELLEY

Deputy City Manager

RHONDA JONES

Clerk/Treasurer, CFO

COMMISSIONERS

DAVID TRUJILLO

Mayor

DIXIE DRUMMOND

Mayor Pro-Tem

TROY J. HARRIS

Commissioner

ARTHUR SANCHEZ

Commissioner

NEIL GRANATH

Commissioner

FACSIMILE TRANSMITTAL SHEET

Date: 7/24/06

To: N M E M R D

Attn: Glenn Von Gronen

From: Kurt Porter Water Superintendent

Number of pages including this sheet: 32

The information contained in this facsimile is intended for use by the intended recipient only. If you have received this in error, or if pages are missing, please advise by phone. Thank you.

Remarks:

Samples from NMED & Trace Analysis

Safe Drinking Water Program Laboratory Reporting Form

Laboratory Certification Information (to be completed by lab)

Lab Name: Flowers Chemical Laboratories, Inc.
Address: P. O. Box 150597
Altamonte Springs, FL 32715-0597

Florida Certification #: E83018
Certification Expiration Date: 6/30/2007
Phone #: 407-339-5984

Analysis Information (to be completed by lab)
Sample Number: 20035DW1

Report Number: 20035
Date Sample Received: 07/18/06

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

Inorganics

- ☐ All 17
☐ Partial
☐ Nitrate
☐ Nitrite
☐ Asbestos

Volatile Organics

- ☐ All 21 ☐ Partial

Synthetic Organics

- ☐ All 30 ☐ Partial

Radionuclides

- ☐ Single Sample
☐ Qtrly Composite**

Secondaries

- ☐ All 14 ☐ Partial

Disinfection Byproducts

- ☐ Trihalomethanes
☐ Haloacetic Acids
☐ Bromate
☐ Chlorite

Were any analyses subcontracted? ☐ Yes ☐ No

(If yes, please provide subcontractor's Florida drinking water certification number with each result provided by that lab).

Certification

I, Jefferson S. Flowers, Technical Director, do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature:



Date: 07/21/06

* Failure to provide a valid and current Florida Dept. of Health lab ID number and a current Analyte Sheet for the attached analysis results will result in rejection of the report and possible enforcement against the public water system for failure to sample.

** Please provide radiochemical sample dates and locations for each quarter.

Compliance Determination (to be completed by DEP or DOH)

Sample Collection Info Satisfactory ☐ Yes ☐ No

Sample Analysis Info Satisfactory ☐ Yes ☐ No

☐ Resample Requested (circle or highlight groups above)

☐ Revised Report Requested (circle or highlight groups above)

Reason(s): ☐ Incomplete Report

☐ Location Unsatisfactory

☐ Analysis Unsatisfactory

☐ Missing Analyte Sheet(s)

☐ Other _____

Person Notified: _____

Date Notified: _____

Comments: _____

Date Reviewed: _____

DEP/DOH Reviewing Official: _____

Safe Drinking Water Program Laboratory Reporting Form

Disinfection Byproducts Lab ID: 20035DW1 PWS ID: NM35218-13 Sample ID: 21813 014

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
2943	Bromodichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	

Safe Drinking Water Program Laboratory Reporting Form

Volatile Organics Lab ID: 20035DW1 PWS ID: NM35218-13 Sample ID: 21813 014

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
	Fluorotrichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1,2,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,2,3-Trichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	2-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	4-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Bromobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Bromochloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Chloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,2,3-Trichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,2,4-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,3,5-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	tert-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	trans-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Bromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	n-Propylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1,1,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	2,2-Dichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1-Dichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Dibromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,3-Dichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Hexachlorobutadiene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Chloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	n-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	sec-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	cis-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1-Dichloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Isopropylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Dichlorodifluoromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,2,4-Trichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	cis-1,2-Dichloroethylene	ug/L	70	0.500	U	EPA524.2	0.500	07/20/06	
2378	Xylenes	ug/L	70	0.500	U	EPA524.2	0.500	07/20/06	
2380	Dichloromethane	ug/L	10,000	0.500	U	EPA524.2	0.500	07/20/06	
2955	o-dichlorobenzene	ug/L	5	0.500	U	EPA524.2	0.500	07/20/06	
2964	Para-dichlorobenzene	ug/L	600	0.500	U	EPA524.2	0.500	07/20/06	
2868	Vinyl Chloride	ug/L	75	0.500	U	EPA524.2	0.500	07/20/06	
2969		ug/L	1	0.500	U	EPA524.2	0.500	07/20/06	
2976		ug/L		0.500	U	EPA524.2	0.500	07/20/06	

Safe Drinking Water Program Laboratory Reporting Form

2977	1,1-Dichloroethylene	ug/L	7	0.500	U	EPA524.2	0.500	07/20/06
2979	trans-1,2-Dichloroethylene	ug/L	100	0.500	U	EPA524.2	0.500	07/20/06
2980	1,2-dichloroethane	ug/L	3(5)	0.500	U	EPA524.2	0.500	07/20/06
2981	1,1,1-trichloroethane	ug/L	200	0.500	U	EPA524.2	0.500	07/20/06
2982	Carbon tetrachloride	ug/L	3	0.500	U	EPA524.2	0.500	07/20/06
2983	1,2-dichloropropane	ug/L	5	0.500	U	EPA524.2	0.500	07/20/06
2984	Trichloroethylene	ug/L	3(5)	0.500	U	EPA524.2	0.500	07/20/06
2985	1,1,2-trichloroethane	ug/L	5	0.500	U	EPA524.2	0.500	07/20/06
2987	Tetrachloroethylene	ug/L	3(5)	0.500	U	EPA524.2	0.500	07/20/06
2989	Monochlorobenzene	ug/L	100	0.500	U	EPA524.2	0.500	07/20/06
2990	Benzene	ug/L	1	0.500	U	EPA524.2	0.500	07/20/06
2991	Toluene	ug/L	1,000	0.500	U	EPA524.2	0.500	07/20/06
2992	Ethylbenzene	ug/L	700	0.500	U	EPA524.2	0.500	07/20/06
2996	Styrene	ug/L	100	0.500	U	EPA524.2	0.500	07/20/06

Safe Drinking Water Program Laboratory Reporting Form

Laboratory Certification Information (to be completed by lab)

Lab Name: Flowers Chemical Laboratories, Inc.
Address: P. O. Box 150597
Altamonte Springs, FL 32715-0597

Florida Certification #: E83018
Certification Expiration Date: 6/30/2007
Phone #: 407-339-5984

Analysis Information (to be completed by lab)
Sample Number: 20032DW1

Report Number: 20032
Date Sample Received: 07/18/06

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

Inorganics

- ☐ All 17
☐ Partial
☐ Nitrate
☐ Nitrite
☐ Asbestos

Volatile Organics

- ☐ All 21 ☐ Partial

Synthetic Organics
☐ All 30 ☐ Partial

Radionuclides

- ☐ Single Sample
☐ Qtrly Composite**

Secondaries
☐ All 14 ☐ Partial

Disinfection Byproducts

- ☐ Trihalomethanes
☐ Haloacetic Acids
☐ Bromate
☐ Chlorite

Were any analyses subcontracted? ☐ Yes ☐ No

(If yes, please provide subcontractor's Florida drinking water certification number with each result provided by that lab).

Certification

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Signature:



Date: 07/21/06

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** Please provide radiochemical sample dates and locations for each quarter.

Compliance Determination (to be completed by DEP or DOH)

Sample Collection Info Satisfactory ☐ Yes ☐ No

Sample Analysis Info Satisfactory ☐ Yes ☐ No

☐ Resample Requested (circle or highlight groups above)

☐ Revised Report Requested (circle or highlight groups above)

Reason(s): ☐ Incomplete Report

☐ Location Unsatisfactory

☐ Analysis Unsatisfactory

☐ Missing Analyte Sheet(s)

☐ Other _____

Person Notified: _____

Date Notified: _____

Comments: _____

Date Reviewed: _____ DEP/DOH Reviewing Official: _____

Safe Drinking Water Program Laboratory Reporting Form

Disinfection Byproducts Lab ID: 20032DW1 PWS ID: NM35218-13 Sample ID: 21813 013

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
2943	Bromodichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	

Safe Drinking Water Program Laboratory Reporting Form

Volatile Organics Lab ID: 20032DW1 PWS ID: NM35218-13 Sample ID: 21813 013

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
	Bromobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Bromochloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Bromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	n-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	sec-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	tert-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	n-Propylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,3,5-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Chloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Chloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	2-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	4-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Dibromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	cis-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,3-Dichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1,2,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Dichlorodifluoromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1-Dichloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,2,3-Trichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,2,4-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	trans-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1,1,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Hexachlorobutadiene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Isopropylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	2,2-Dichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	1,1-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
	Fluorotrichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	
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Safe Drinking Water Program Laboratory Reporting Form

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2992	Ethylbenzene	ug/L	700	0.500	U	EPA524.2	0.500	07/20/06
2996	Styrene	ug/L	100	0.500	U	EPA524.2	0.500	07/20/06

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Florida Certification #: E83018
Certification Expiration Date: 6/30/2007
Phone #: 407-339-5984

Analysis Information (to be completed by lab)

Sample Number: 20034DW1

Report Number: 20034

Date Sample Received: 07/18/06

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

Inorganics

- ☐ All 17
☐ Partial
☐ Nitrate
☐ Nitrite
☐ Asbestos

Volatile Organics

- ☐ All 21 ☐ Partial

Synthetic Organics

- ☐ All 30 ☐ Partial

Radionuclides

- ☐ Single Sample
☐ Qtrly Composite**

Secondaries

- ☐ All 14 ☐ Partial

Disinfection Byproducts

- ☐ Trihalomethanes
☐ Haloacetic Acids
☐ Bromate
☐ Chlorite

Were any analyses subcontracted? ☐ Yes ☐ No

(If yes, please provide subcontractor's Florida drinking water certification number with each result provided by that lab).

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Sample Collection Info Satisfactory ☐ Yes ☐ No

Sample Analysis Info Satisfactory ☐ Yes ☐ No

☐ Resample Requested (circle or highlight groups above)

☐ Revised Report Requested (circle or highlight groups above)

Reason(s): ☐ Incomplete Report

☐ Location Unsatisfactory

☐ Analysis Unsatisfactory

☐ Missing Analyte Sheet(s)

☐ Other _____

Person Notified: _____

Date Notified: _____

Comments: _____

Date Reviewed: _____

DEP/DOH Reviewing Official: _____

Safe Drinking Water Program Laboratory Reporting Form

Well 17

Disinfection Byproducts Lab ID: 20034DW1 PWS ID: NM35218-13 Sample ID: 21813 017

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
2943	Bromodichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	07/20/06	

Report Date: July 21, 2006
Lovington Water

Work Order: 6071209
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071209

Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
94819	LWF #17	water	2006-07-11	13:30	2006-07-11
94820	LWF #21	water	2006-07-11	13:40	2006-07-11
94821	LWF #16	water	2006-07-11	13:50	2006-07-11

Sample - Field Code	BTX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
94819 - LWF #17	0.00140	<0.00100	<0.00100	<0.00100		<5.00	<0.100
94820 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<3.00	<0.100
94821 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 94819 - LWF #17

Param	Flag	Result	Units	RL
Chloride		246	mg/L	0.500

Sample: 94820 - LWF #21

Param	Flag	Result	Units	RL
Chloride		101	mg/L	0.500

Sample: 94821 - LWF #16

Param	Flag	Result	Units	RL
Chloride		37.1	mg/L	0.500

Report Date: July 21, 2006
Lovington Water

Work Order: 6071406
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071406



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95143	LWF #17	water	2006-07-18	13:45	2006-07-13

Sample - Field Code	BTX by 8260					MTBE by 8260
	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	MTBE
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
95143 - LWF #17	1.47	<1.00	<1.00	<1.00	<1.00	

Report Date: July 21, 2006
Lovington WaterWork Order: 6071406
Lovington Water FieldPage Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071406

Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95143	LWF #17	water	2006-07-13	13:45	2006-07-13
95144	LWF #21	water	2006-07-13	13:20	2006-07-13
95145	LWF #16	water	2006-07-13	13:35	2006-07-13

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95143 - LWF #17	0.00140	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95144 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95145 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500

Sample: 95143 - LWF #17

Param	Flag	Result	Units	RL
Chloride		216	mg/L	0.500

Sample: 95144 - LWF #21

Param	Flag	Result	Units	RL
Chloride		100	mg/L	0.500

Sample: 95145 - LWF #16

Param	Flag	Result	Units	RL
Chloride		42.7	mg/L	0.500

[illegible]

07/24/2006 10:13 8067941298

TRACEANALYSIS

PAGE 06

Report Date: July 21, 2006
Lovington WaterWork Order: 6071707
Lovington Water FieldPage Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071707

Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95374	LWF #21	water	2006-07-14	10:10	2006-07-14
95375	LWF #17	water	2006-07-14	10:25	2006-07-14
95376	LWF #16	water	2006-07-14	10:35	2006-07-14

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95374 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95375 - LWF #17	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95376 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 95374 - LWF #21

Param	Flag	Result	Units	RL
Chloride		102	mg/L	0.500

Sample: 95375 - LWF #17

Param	Flag	Result	Units	RL
Chloride		212	mg/L	0.500

Sample: 95376 - LWF #16

Param	Flag	Result	Units	RL
Chloride		43.1	mg/L	0.500

95374-76

8701 Avenida Avenue, Ste. 9
Arlington, Texas 78424
Tel (817) 794-1285
Fax (817) 794-1288
1 (800) 378-1286
email: info@traceanalysis.com

TraceAnalysis, Inc.

Company Name: CITY OF LORINGTON
Address: 1001 N. 1st St.
City/State/Zip: Lorington, NM 87043
Contact Person: Mark Porter
Phone: 505 396-2884
Fax: 505 396-6328
E-mail:

Project Name: Same
Project Location (including state): Lorington NM
Sample Size (g/L): 100g

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
15374	LWF # 21	5		✓				✓					✓		7/14	10:11
75	LWF # 17	5		✓				✓					✓		7/14	10:22
76	LWF # 16	5		✓				✓					✓		7/14	10:33

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID: 005 6071707

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8290B / 624	✓
BTEX 8021B / 602 / 8290B / 624	✓
TPH 418.1 / TX1005 / TX4085 / TX4085	✓
TPH 8015 GRO / DRO / TVHC	✓
PAH 8270C / 625	✓
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	✓
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	✓
TCLP Volatiles	✓
TCLP Semi Volatiles	✓
TCLP Pesticides	✓
RCI	✓
GC/MS Vol. 8260B / 624	✓
GC/MS Semi Vol. 8270C / 625	✓
PCBs 8082 / 608	✓
Pesticides 8081A / 608	✓
BOD, YSS, pH	✓
Moisture Content	✓
Chloride	✓
Turn Around Time if different from standard	

REMARKS:

Fax Copy
7/12/06
☐ Dry Weight Basis Required
☐ TARP Report Required
☐ Check if Special Reporting Units Are Needed

Card # Carvin

Report Date: July 21, 2006
Lovington Water

Work Order: 6071726
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071726



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95522	LWF #21	water	2006-07-15	12:00	2006-07-17
95523	LWF #17	water	2006-07-15	12:15	2006-07-17
95524	LWF #16	water	2006-07-15	12:30	2006-07-17

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95522 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95523 - LWF #17	0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95524 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 95522 - LWF #21

Param	Flag	Result	Units	RL
Chloride		99.5	mg/L	0.500

Sample: 95523 - LWF #17

Param	Flag	Result	Units	RL
Chloride		216	mg/L	0.500

Sample: 95524 - LWF #16

Param	Flag	Result	Units	RL
Chloride		43.6	mg/L	0.500

95522-24

6701 Aberdeen Avenue, Ste. B
Lubbock, Texas 79424
Tel (806) 784-1258
Fax (806) 784-1258
1 (800) 378-1258
Email: lab@traceanalysis.com

TraceAnalysis, Inc.

Company Name: City of Lovington Phone #: 505 316-2884
Address: PO Box 1268 Lovington NM 88240 Fax #: 505 316-6328
Contact Person: Kurt Porter E-mail:

Invoice to: Same
(If different from above)
Project #: Lovington Water Field
Project Location (Including state): Lovington NM

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
9550	LWF#21	5		✓				✓				✓		7/5	12:00
9551	LWF#17	5		✓				✓				✓		7/5	12:15
9552	LWF#16	5		✓				✓				✓		7/5	12:30

Requisitioned by:	Date:	Time:	Received by:	Date:	Time:
Kurt Porter	7/17/05	7:55 AM			
Requisitioned by:	Date:	Time:	Received by:	Date:	Time:
Kurt Porter	7/17/05	7:55 AM			

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID #: 8067941298

ANALYSIS REQUEST (Circle or Specify Method No.)

☐	GC/MS Vol. 8260B / 624
☐	GC/MS Sem. Vol. 8270C / 625
☐	PCBs 8062 / 608
☐	Pesticides 8061A / 608
☐	BOD, TSS, pH
☐	Moisture Content
☐	Turn Around Time if different from standard
☐	Hold

REMARKS: For Results
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check if Special Reporting Limits Are Needed

Carrier # 71268
carry in

Report Date: July 21, 2006
Lovington Water

Work Order: 8071727
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1289
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071727

Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95525	LWF #21	water	2006-07-16	14:00	2006-07-17
95526	LWF #17	water	2006-07-16	14:15	2006-07-17
95527	LWF #16	water	2006-07-16	14:35	2006-07-17

Sample - Field Code	STEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95525 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95526 - LWF #17	0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95527 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 95525 - LWF #21

Param	Flag	Result	Units	RL
Chloride		102	mg/L	0.500

Sample: 95526 - LWF #17

Param	Flag	Result	Units	RL
Chloride		224	mg/L	0.500

Sample: 95527 - LWF #16

Param	Flag	Result	Units	RL
Chloride		46.2	mg/L	0.500

95525-27

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID# 007 607173

TraceAnalysis, Inc.
155 McClellan Avenue, Suite H
Escondido, CA 92025
Tel (915) 585-3443
Fax (915) 585-3443
E-mail: info@traceanalysis.com

Company Name: City of Lovington
Address: 1268 Lovington NM 88260
Contact Person: Kurt Porter
Phone #: 505 396-2884
Fax #: 505 396-6328
E-mail:
Invoice to: Same
Project #: Lovington Water Field
Project Location (including state): Lovington NM

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
95525	LWF # 21	5		✓				✓				✓		7/16	2:00pm
95525	LWF # 17	5		✓				✓				✓		7/16	2:15pm
95525	LWF # 16	5		✓				✓				✓		7/16	2:35pm

Relinquished by: Date: Time: Received by: Date: Time:
Kurt Porter 7/16/06 7:55am Received by: 7/17/06 7:55am
Relinquished by: Date: Time: Received by: Date: Time:
Kurt Porter 7/17/06 10:55am Received by: 7/17/06 10:55am

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ANALYSIS REQUEST (Circle or Specify Method No.)														
GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 825	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	Turn Around Time if different from standard
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

REMARKS: Fax Results
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check if Special Reporting Limits Are Needed
Currier # 607173

Report Date: July 21, 2006
 Lovington Water

Work Order: 6071209
 Lovington Water Field

Page Number: 1 of 1
 Lovington, NM

Summary Report

Kurt Porter
 City of Lovington
 P.O. Box 1269
 Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071209

Project Location: Lovington, NM
 Project Name: Lovington Water Field
 Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
94819	LWF #17	water	2006-07-11	13:30	2006-07-11
94820	LWF #21	water	2006-07-11	13:40	2006-07-11
94821	LWF #16	water	2006-07-11	13:50	2006-07-11

Sample - Field Code	BTEX				MIB MTBE (mg/L)	TPH DRO DRO (mg/L)	TPH GRO GRO (mg/L)
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)			
94819 - LWF #17	0.00140	<0.00100	<0.00100	<0.00100		<5.00	<0.100
94820 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
94821 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 94819 - LWF #17

Param	Flag	Result	Units	RL
Chloride		246	mg/L	0.500

Sample: 94820 - LWF #21

Param	Flag	Result	Units	RL
Chloride		101	mg/L	0.500

Sample: 94821 - LWF #16

Param	Flag	Result	Units	RL
Chloride		37.1	mg/L	0.500

Report Date: July 21, 2006
Lovington Water

Work Order: 6071405
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX.

Report Date: July 21, 2006

Work Order: 6071405



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95140	LWF #17	water	2006-07-12	13:10	2006-07-13
95141	LWF #21	water	2006-07-12	13:20	2006-07-13
95142	LWF #16	water	2006-07-12	13:35	2006-07-13

Sample - Field Code	BTX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95140 - LWF #17	0.00160	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95141 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95142 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500

Sample: 95140 - LWF #17

Param	Flag	Result	Units	RL
Chloride		204	mg/L	0.500

Sample: 95141 - LWF #21

Param	Flag	Result	Units	RL
Chloride		94.1	mg/L	0.500

Sample: 95142 - LWF #16

Param	Flag	Result	Units	RL
Chloride		99.7	mg/L	0.500

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79932 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

Bill To: City of Lovington
P.O. Box 1269
Lovington, TX

Attn: Kurt Porter

Invoice No. 17802



Invoice Date: 2006-07-21

Payment Due: 2006-08-20

Work Order: 6071406
Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water



Item	Quantity	Matrix	Description	Price	Sub Total
BTEX	3	water	95143 - 95145	\$60.00	\$180.00
TPH GRO	3	water	95143 - 95145	\$60.00	\$180.00
TPH DRO	3	water	95143 - 95145	\$60.00	\$180.00
BTEX by 8260	1	water	95143	\$150.00	\$150.00
Chloride (IC)	3	water	95143 - 95145	\$17.00	\$51.00

Payment Terms: Net-30

Total \$741.00

Dr. Blair Leftwich, Director

Report Date: July 21, 2006
Lovington Water

Work Order: 6071406
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071406



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95143	LWF #17	water	2006-07-13	13:45	2006-07-13

Sample - Field Code	BTEX by 8260					MTBE by 8260
	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	MTBE
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
95143 - LWF #17	1.47	<1.00	<1.00	<1.00	<1.00	

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
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Lubbock, Texas 79424
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888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296
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FAX 806•794•1298
FAX 915•585•4944

Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071406



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95143	LWF #17	water	2006-07-13	13:45	2006-07-13

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 4 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 95143 - LWF #17

Analysis: BTEX by 8260
QC Batch: 28190
Prep Batch: 24686

Analytical Method: S 8260B
Date Analyzed: 2006-07-19
Sample Preparation: 2006-07-19

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.47	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.7	µg/L	1	50.0	95	70 - 130
Toluene-d8		49.5	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		49.5	µg/L	1	50.0	99	70 - 130

Method Blank (1) QC Batch: 28190

QC Batch: 28190
Prep Batch: 24686

Date Analyzed: 2006-07-19
QC Preparation: 2006-07-19

Analyzed By: JG
Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethene		<0.136	µg/L	1
Benzene		<0.146	µg/L	1
Trichloroethene (TCE)		<0.117	µg/L	1
Toluene		0.140	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
Ethylbenzene		0.160	µg/L	1
m,p-Xylene		0.720	µg/L	1
o-Xylene		0.250	µg/L	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.6	µg/L	1	50.0	95	70 - 130
Toluene-d8		49.3	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		49.7	µg/L	1	50.0	99	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 28190
Prep Batch: 24686

Date Analyzed: 2006-07-19
QC Preparation: 2006-07-19

Analyzed By: JG
Prepared By: JG

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	51.3	50.5	µg/L	1	50.0	<0.136	103	2	70 - 130	20
Benzene	47.6	47.1	µg/L	1	50.0	<0.146	95	1	70 - 130	20
Trichloroethene (TCE)	49.1	48.5	µg/L	1	50.0	<0.117	98	1	70 - 130	20
Toluene	48.5	48.1	µg/L	1	50.0	<0.0600	97	1	70 - 130	20
Chlorobenzene	49.2	48.5	µg/L	1	50.0	<0.0540	98	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	51.1	50.7	µg/L	1	50.0	102	101	70 - 130
Toluene-d8	49.4	48.8	µg/L	1	50.0	99	98	70 - 130
4-Bromofluorobenzene (4-BFB)	50.6	50.3	µg/L	1	50.0	101	101	70 - 130

Standard (CCV-1)

QC Batch: 28190

Date Analyzed: 2006-07-19

Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	43.6	87	80 - 120	2006-07-19
1,1-Dichloroethene		µg/L	50.0	49.9	100	80 - 120	2006-07-19
Chloroform		µg/L	50.0	48.9	98	80 - 120	2006-07-19
1,2-Dichloropropane		µg/L	50.0	47.6	95	80 - 120	2006-07-19
Toluene		µg/L	50.0	46.5	93	80 - 120	2006-07-19
Chlorobenzene		µg/L	50.0	47.8	96	80 - 120	2006-07-19
Ethylbenzene		µg/L	50.0	48.1	96	80 - 120	2006-07-19

() () () () () ()

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Trace Analysis, Inc.

Phone #: _____

Phone #: 505 396-7884

Fax #: 202 708 2001

E-mail: 2017@163.com

Journal of Management Inquiry 20(6) 798-814
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Project Name: _____

Project Name:

200, mg/kg Water 1

Sampler Signature: *David J. ...*

[illegible]

Relinquished by:	Date:	Time:	Received by:
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Date:	Time:
-------	-------

[illegible]

Relinquished by:	Date:	Time:	Received by:
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Date: _____ Time: _____

--	--

Reinquished by: /	Date: _____	Time: _____	Received at: _____
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Date	Time
------	------

--	--

Date:	Time:	Received at Laboratory:
7/13/06	3:40pm	Amber

by: _____ Date: 7/13/2014 Time: 4

05

LABOR

Only

W. N. Z.

Handwritten: $\checkmark$

0

5

REMARKS:

Need fax copy

☐ Dry Weight Basis Required

[illegible]

1000

Limits Are Needed

ANALYSIS REQUEST
(Circle or Specify Method No.)

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #: 004 1071406

ANALYSIS REQUEST

(Circle or Specify Method No.)

Turn Around Time if different from standard

Moisture Content

PCB's 8082 / 608

Pesticides 8081A / 608

PCB's 8082 / 608

GC/MS Semi. Vol. 8270C / 625

GC/MS Vol. 8260B / 624

TCCLP Pesticides

TCCLP Semi Volatiles

TCCLP Volatiles

TCCLP Metals Ag As Ba Cd Cr Pb Se Hg.

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200

PAH 8270C / 625

TPH 8015 GRO / DRO / TVHC

TPH 418.1 / TX1005 / TX1005 Ext(C35)

BTEX 8021B / 602 / 8260B / 624

MTBE 8021B / 602 / 8260B / 624

பிரதமர்

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071406



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95143	LWF #17	water	2006-07-13	13:45	2006-07-13
95144	LWF #21	water	2006-07-13	13:20	2006-07-13
95145	LWF #16	water	2006-07-13	13:35	2006-07-13

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95143 - LWF #17	0.00140	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95144 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95145 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500

Sample: 95143 - LWF #17

Param	Flag	Result	Units	RL
Chloride		216	mg/L	0.500

Sample: 95144 - LWF #21

Param	Flag	Result	Units	RL
Chloride		100	mg/L	0.500

Sample: 95145 - LWF #16

Param	Flag	Result	Units	RL
Chloride		42.7	mg/L	0.500

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071406



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95143	LWF #17	water	2006-07-13	13:45	2006-07-13
95144	LWF #21	water	2006-07-13	13:20	2006-07-13
95145	LWF #16	water	2006-07-13	13:35	2006-07-13

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 95143 - LWF #17

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 28028 Date Analyzed: 2006-07-14 Analyzed By: KB
Prep Batch: 24549 Sample Preparation: 2006-07-14 Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00140	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0859	mg/L	1	0.100	86	70.6 - 129.2

Sample: 95143 - LWF #17

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 28177 Date Analyzed: 2006-07-20 Analyzed By: WB
Prep Batch: 24652 Sample Preparation: 2006-07-19 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		216	mg/L	10	0.500

Sample: 95143 - LWF #17

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 28094 Date Analyzed: 2006-07-18 Analyzed By: SP
Prep Batch: 24605 Sample Preparation: 2006-07-17 Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.8	mg/L	1	15.0	105	50 - 150

Sample: 95143 - LWF #17

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5030B
QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
Prep Batch: 24589 Sample Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.410	mg/L	5	0.100	82	80 - 120
4-Bromofluorobenzene (4-BFB)		0.429	mg/L	5	0.100	86	80 - 120

Sample: 95144 - LWF #21

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 28028	Date Analyzed: 2006-07-14	Analyzed By: KB
Prep Batch: 24549	Sample Preparation: 2006-07-14	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0861	mg/L	1	0.100	86	70.6 - 129.2

Sample: 95144 - LWF #21

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 28177	Date Analyzed: 2006-07-20	Analyzed By: WB
Prep Batch: 24652	Sample Preparation: 2006-07-19	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		100	mg/L	10	0.500

Sample: 95144 - LWF #21

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28094	Date Analyzed: 2006-07-18	Analyzed By: SP
Prep Batch: 24605	Sample Preparation: 2006-07-17	Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		17.4	mg/L	1	15.0	116	50 - 150

Sample: 95144 - LWF #21

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	28073	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.413	mg/L	5	0.100	83	80 - 120
4-Bromofluorobenzene (4-BFB)		0.427	mg/L	5	0.100	85	80 - 120

Sample: 95145 - LWF #16

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28028	Date Analyzed:	2006-07-14	Analyzed By:	KB
Prep Batch:	24549	Sample Preparation:	2006-07-14	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0869	mg/L	1	0.100	87	70.6 - 129.2

Sample: 95145 - LWF #16

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28177	Date Analyzed:	2006-07-20	Analyzed By:	WB
Prep Batch:	24652	Sample Preparation:	2006-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		42.7	mg/L	5	0.500

Sample: 95145 - LWF #16

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28094	Date Analyzed:	2006-07-18	Analyzed By:	SP
Prep Batch:	24605	Sample Preparation:	2006-07-17	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		17.1	mg/L	1	15.0	114	50 - 150

Sample: 95145 - LWF #16

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5030B
 QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 Sample Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.423	mg/L	5	0.100	85	80 - 120
4-Bromofluorobenzene (4-BFB)		0.423	mg/L	5	0.100	85	80 - 120

Method Blank (1) QC Batch: 28028

QC Batch: 28028 Date Analyzed: 2006-07-14 Analyzed By: KB
 Prep Batch: 24549 QC Preparation: 2006-07-14 Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000210	mg/L	0.001
Ethylbenzene		<0.000317	mg/L	0.001
Xylene		<0.000603	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	76.1 - 117
4-Bromofluorobenzene (4-BFB)		0.0873	mg/L	1	0.100	87	58.5 - 118

Method Blank (1) QC Batch: 28073

QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 QC Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		0.254	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	82.8 - 124
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	60.5 - 96

Method Blank (1) QC Batch: 28094

QC Batch: 28094
 Prep Batch: 24605

Date Analyzed: 2006-07-18
 QC Preparation: 2006-07-17

Analyzed By: SP
 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.0	mg/L	1	15.0	100	50 - 150

Method Blank (1) QC Batch: 28177

QC Batch: 28177
 Prep Batch: 24652

Date Analyzed: 2006-07-20
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch: 28028
 Prep Batch: 24549

Date Analyzed: 2006-07-14
 QC Preparation: 2006-07-14

Analyzed By: KB
 Prepared By: KB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.107	0.105	mg/L	1	0.100	<0.000255	107	2	80.8 - 112	20
Toluene	0.105	0.104	mg/L	1	0.100	<0.000210	105	1	78 - 114	20
Ethylbenzene	0.105	0.105	mg/L	1	0.100	<0.000317	105	0	78.6 - 116	20
Xylene	0.319	0.318	mg/L	1	0.300	<0.000603	106	0	83.2 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.0989	mg/L	1	0.100	101	99	79.9 - 117
4-Bromofluorobenzene (4-BFB)	0.0966	0.0950	mg/L	1	0.100	97	95	79 - 123

Laboratory Control Spike (LCS-1)

QC Batch: 28073
 Prep Batch: 24589

Date Analyzed: 2006-07-17
 QC Preparation: 2006-07-17

Analyzed By: MT
 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	0.848	0.850	mg/L	1	1.00	<0.0272	85	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0819	0.0768	mg/L	1	0.100	82	77	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0906	0.0867	mg/L	1	0.100	91	87	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28094
Prep Batch: 24605

Date Analyzed: 2006-07-18
QC Preparation: 2006-07-17

Analyzed By: SP
Prepared By: SP

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	25.1	26.5	mg/L	1	25.0	<1.06	100	5	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	15.2	15.0	mg/L	1	15.0	101	100	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 28177
Prep Batch: 24652

Date Analyzed: 2006-07-20
QC Preparation: 2006-07-19

Analyzed By: WB
Prepared By: WB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.7	11.9	mg/L	1	12.5	<0.0181	94	2	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 95162

QC Batch: 28028
Prep Batch: 24549

Date Analyzed: 2006-07-14
QC Preparation: 2006-07-14

Analyzed By: KB
Prepared By: KB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	² 0.106	NA	mg/L	1	0.100	<0.000255	106	200	70.9 - 126	20
Toluene	³ 0.105	NA	mg/L	1	0.100	<0.000210	105	200	70.8 - 125	20
Ethylbenzene	⁴ 0.108	NA	mg/L	1	0.100	<0.000317	108	200	74.8 - 125	20

continued...

¹LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

²RPD is out of range because a matrix spike duplicate was not prepared.

³RPD is out of range because a matrix spike duplicate was not prepared.

⁴RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued ...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Xylene	⁵ 0.321	NA	mg/L	1	0.300	<0.000603	107	200	75.7 - 126	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁶ 0.102	NA	mg/L	1	0.1	102	0	73.6 - 121
4-Bromofluorobenzene (4-BFB)	⁷ 0.0968	NA	mg/L	1	0.1	97	0	81.8 - 114

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28073
Prep Batch: 24589

Date Analyzed: 2006-07-17
QC Preparation: 2006-07-17

Analyzed By: MT
Prepared By: MT

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	⁸ 0.845	NA	mg/L	1	1.00	<0.0272	84	200	51.1 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁹ 0.0798	NA	mg/L	1	0.1	80	0	52.3 - 137
4-Bromofluorobenzene (4-BFB)	¹⁰ 0.0899	NA	mg/L	1	0.1	90	0	83.3 - 110

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28094
Prep Batch: 24605

Date Analyzed: 2006-07-18
QC Preparation: 2006-07-17

Analyzed By: SP
Prepared By: SP

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	¹¹ 24.3	NA	mg/L	1	25.0	<1.06	97	200	71.1 - 99.1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	¹² 16.9	NA	mg/L	1	15	113	0	50 - 150

⁵RPD is out of range because a matrix spike duplicate was not prepared.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

⁷RPD is out of range because a matrix spike duplicate was not prepared.

⁸RPD is out of range because a matrix spike duplicate was not prepared.

⁹RPD is out of range because a matrix spike duplicate was not prepared.

¹⁰RPD is out of range because a matrix spike duplicate was not prepared.

¹¹RPD is out of range because a matrix spike duplicate was not prepared.

¹²RPD is out of range because a matrix spike duplicate was not prepared.

Matrix Spike (MS-1) Spiked Sample: 95327

QC Batch: 28177
 Prep Batch: 24652

Date Analyzed: 2006-07-20
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1610	1620	mg/L	100	12.5	442	93	1	25.4 - 171	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28028

Date Analyzed: 2006-07-14

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2006-07-14
Toluene		mg/L	0.100	0.108	108	85 - 115	2006-07-14
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2006-07-14
Xylene		mg/L	0.300	0.328	109	85 - 115	2006-07-14

Standard (CCV-1)

QC Batch: 28028

Date Analyzed: 2006-07-14

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2006-07-14
Toluene		mg/L	0.100	0.102	102	85 - 115	2006-07-14
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2006-07-14
Xylene		mg/L	0.300	0.309	103	85 - 115	2006-07-14

Standard (ICV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.895	90	85 - 115	2006-07-17

Standard (CCV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.852	85	85 - 115	2006-07-17

Standard (ICV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (CCV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (ICV-1)

QC Batch: 28177

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2006-07-20

Standard (CCV-1)

QC Batch: 28177

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2006-07-20

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Trace Analysis, Inc.

Lovington New Mexico

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Walters	7/13/66	3:40p		7/13/66	4:20p
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ANALYSIS REQUEST

(Circle or Specify Method No.)

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TRACE ANALYSIS, INC.

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Bill To: City of Lovington
P.O. Box 1269
Lovington, TX

Attn: Kurt Porter

Invoice No. 17784



Invoice Date: 2006-07-21

Payment Due: 2006-08-20

Work Order: 6071208
Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Item	Quantity	Matrix	Description	Price	Sub Total
BTEX	3	water	94816 - 94818	\$60.00	\$180.00
TPH GRO	3	water	94816 - 94818	\$60.00	\$180.00
TPH DRO	3	water	94816 - 94818	\$60.00	\$180.00
Chloride (IC)	3	water	94816 - 94818	\$17.00	\$51.00

Payment Terms: Net-30

Total \$591.00

Dr. Blair Leftwich, Director

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071208



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
94816	LWF #17	water	2006-07-10	13:30	2006-07-11
94817	LWF #21	water	2006-07-10	13:55	2006-07-11
94818	LWF #16	water	2006-07-10	14:15	2006-07-11

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
94816 - LWF #17	0.00200	<0.00100	<0.00100	<0.00100		<5.00	<0.500
94817 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500
94818 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500

Sample: 94816 - LWF #17

Param	Flag	Result	Units	RL
Chloride		246	mg/L	0.500

Sample: 94817 - LWF #21

Param	Flag	Result	Units	RL
Chloride		99.7	mg/L	0.500

Sample: 94818 - LWF #16

Param	Flag	Result	Units	RL
Chloride		32.2	mg/L	0.500

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071208



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
94816	LWF #17	water	2006-07-10	13:30	2006-07-11
94817	LWF #21	water	2006-07-10	13:55	2006-07-11
94818	LWF #16	water	2006-07-10	14:15	2006-07-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 94816 - LWF #17

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27978	Date Analyzed:	2006-07-12	Analyzed By:	KB
Prep Batch:	24508	Sample Preparation:	2006-07-12	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00200	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0861	mg/L	1	0.100	86	70.6 - 129.2

Sample: 94816 - LWF #17

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28176	Date Analyzed:	2006-07-19	Analyzed By:	WB
Prep Batch:	24651	Sample Preparation:	2007-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		246	mg/L	50	0.500

Sample: 94816 - LWF #17

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28042	Date Analyzed:	2006-07-16	Analyzed By:	JL
Prep Batch:	24556	Sample Preparation:	2006-07-14	Prepared By:	JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.8	mg/L	1	15.0	105	50 - 150

Sample: 94816 - LWF #17

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	27998	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	Sample Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.470	mg/L	5	0.100	94	80 - 120
4-Bromofluorobenzene (4-BFB)		0.436	mg/L	5	0.100	87	80 - 120

Sample: 94817 - LWF #21

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 27979	Date Analyzed: 2006-07-12	Analyzed By: MT
Prep Batch: 24509	Sample Preparation: 2006-07-12	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0885	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0842	mg/L	1	0.100	84	70 - 130

Sample: 94817 - LWF #21

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 28176	Date Analyzed: 2006-07-19	Analyzed By: WB
Prep Batch: 24651	Sample Preparation: 2007-07-19	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		99.7	mg/L	10	0.500

Sample: 94817 - LWF #21

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28042	Date Analyzed: 2006-07-16	Analyzed By: JL
Prep Batch: 24556	Sample Preparation: 2006-07-14	Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.1	mg/L	1	15.0	101	50 - 150

Report Date: July 21, 2006
Lovington Water

Work Order: 6071208
Lovington Water Field

Page Number: 4 of 12
Lovington, NM

Sample: 94817 - LWF #21

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	27998	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	Sample Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.431	mg/L	5	0.100	86	80 - 120
4-Bromofluorobenzene (4-BFB)		0.412	mg/L	5	0.100	82	80 - 120

Sample: 94818 - LWF #16

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27979	Date Analyzed:	2006-07-12	Analyzed By:	MT
Prep Batch:	24509	Sample Preparation:	2006-07-12	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0899	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0830	mg/L	1	0.100	83	70 - 130

Sample: 94818 - LWF #16

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28176	Date Analyzed:	2006-07-19	Analyzed By:	WB
Prep Batch:	24651	Sample Preparation:	2007-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		32.2	mg/L	5	0.500

Sample: 94818 - LWF #16

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28042	Date Analyzed:	2006-07-16	Analyzed By:	JL
Prep Batch:	24556	Sample Preparation:	2006-07-14	Prepared By:	JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		14.9	mg/L	1	15.0	99	50 - 150

Sample: 94818 - LWF #16

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5030B
QC Batch: 27998	Date Analyzed: 2006-07-13	Analyzed By: KB
Prep Batch: 24530	Sample Preparation: 2006-07-13	Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.436	mg/L	5	0.100	87	80 - 120
4-Bromofluorobenzene (4-BFB)		0.425	mg/L	5	0.100	85	80 - 120

Method Blank (1) QC Batch: 27978

QC Batch: 27978	Date Analyzed: 2006-07-12	Analyzed By: KB
Prep Batch: 24508	QC Preparation: 2006-07-12	Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000210	mg/L	0.001
Ethylbenzene		<0.000317	mg/L	0.001
Xylene		<0.000603	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	76.1 - 117
4-Bromofluorobenzene (4-BFB)		0.0894	mg/L	1	0.100	89	58.5 - 118

Method Blank (1) QC Batch: 27979

QC Batch: 27979	Date Analyzed: 2006-07-12	Analyzed By: MT
Prep Batch: 24509	QC Preparation: 2006-07-12	Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000305	mg/L	0.001
Toluene		<0.000497	mg/L	0.001
Ethylbenzene		<0.000294	mg/L	0.001

continued...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Xylene		<0.000348	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0902	mg/L	1	0.100	90	81.4 - 109
4-Bromofluorobenzene (4-BFB)		0.0882	mg/L	1	0.100	88	57.1 - 113

Method Blank (1) QC Batch: 27998

QC Batch: 27998
 Prep Batch: 24530

Date Analyzed: 2006-07-13
 QC Preparation: 2006-07-13

Analyzed By: KB
 Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		0.269	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0987	mg/L	1	0.100	99	82.8 - 124
4-Bromofluorobenzene (4-BFB)		0.0924	mg/L	1	0.100	92	60.5 - 96

Method Blank (1) QC Batch: 28042

QC Batch: 28042
 Prep Batch: 24556

Date Analyzed: 2006-07-16
 QC Preparation: 2006-07-14

Analyzed By: JL
 Prepared By: JL

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.1	mg/L	1	15.0	121	50 - 150

Method Blank (1) QC Batch: 28176

QC Batch: 28176
 Prep Batch: 24651

Date Analyzed: 2006-07-19
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch: 27978
 Prep Batch: 24508

Date Analyzed: 2006-07-12
 QC Preparation: 2006-07-12

Analyzed By: KB
 Prepared By: KB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.109	0.104	mg/L	1	0.100	<0.000255	109	5	80.8 - 112	20
Toluene	0.108	0.104	mg/L	1	0.100	<0.000210	108	4	78 - 114	20
Ethylbenzene	0.109	0.106	mg/L	1	0.100	<0.000317	109	3	78.6 - 116	20
Xylene	0.328	0.320	mg/L	1	0.300	<0.000603	109	2	83.2 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.103	0.101	mg/L	1	0.100	103	101	79.9 - 117
4-Bromofluorobenzene (4-BFB)	0.0973	0.0963	mg/L	1	0.100	97	96	79 - 123

Laboratory Control Spike (LCS-1)

QC Batch: 27979
 Prep Batch: 24509

Date Analyzed: 2006-07-12
 QC Preparation: 2006-07-12

Analyzed By: MT
 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0930	0.0943	mg/L	1	0.100	<0.000305	93	1	80 - 120	20
Toluene	0.0876	0.0885	mg/L	1	0.100	<0.000497	88	1	80 - 120	20
Ethylbenzene	0.0971	0.0986	mg/L	1	0.100	<0.000294	97	2	80 - 120	20
Xylene	0.285	0.290	mg/L	1	0.300	<0.000348	95	2	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0921	0.0906	mg/L	1	0.100	92	91	80 - 120
4-Bromofluorobenzene (4-BFB)	0.100	0.100	mg/L	1	0.100	100	100	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 27998
 Prep Batch: 24530

Date Analyzed: 2006-07-13
 QC Preparation: 2006-07-13

Analyzed By: KB
 Prepared By: KB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	1.00	1.08	mg/L	1	1.00	<0.0272	100	8	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0975	0.0985	mg/L	1	0.100	98	98	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0998	0.100	mg/L	1	0.100	100	100	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28042
Prep Batch: 24556

Date Analyzed: 2006-07-16
QC Preparation: 2006-07-14

Analyzed By: JL
Prepared By: JL

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	26.2	31.3	mg/L	1	25.0	<1.06	105	18	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	15.2	17.3	mg/L	1	15.0	101	115	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 28176
Prep Batch: 24651

Date Analyzed: 2006-07-19
QC Preparation: 2006-07-19

Analyzed By: WB
Prepared By: WB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	12.1	12.0	mg/L	1	12.5	<0.0181	97	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 94816

QC Batch: 27978
Prep Batch: 24508

Date Analyzed: 2006-07-12
QC Preparation: 2006-07-12

Analyzed By: KB
Prepared By: KB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	1 0.0750	na	mg/L	1	0.100	0.002	73	200	70.9 - 126	20
Toluene	2 0.0714	na	mg/L	1	0.100	<0.000210	71	200	70.8 - 125	20
Ethylbenzene	34 0.0718	na	mg/L	1	0.100	<0.000317	72	200	74.8 - 125	20
Xylene	56 0.218	na	mg/L	1	0.300	<0.000603	73	200	75.7 - 126	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	7 0.104	na	mg/L	1	0.1	104	0	73.6 - 121
4-Bromofluorobenzene (4-BFB)	8 0.0969	na	mg/L	1	0.1	97	0	81.8 - 114

¹RPD is out of range because a matrix spike duplicate was not prepared.

²RPD is out of range because a matrix spike duplicate was not prepared.

³MS analyte outside normal limits. LCS/LCSD shows the method to be in control.

⁴RPD is out of range because a matrix spike duplicate was not prepared.

⁵MS analyte outside normal limits. LCS/LCSD shows the method to be in control.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

⁷RPD is out of range because a matrix spike duplicate was not prepared.

⁸RPD is out of range because a matrix spike duplicate was not prepared.

Matrix Spike (MS-1) Spiked Sample: 94814

QC Batch: 27979
 Prep Batch: 24509

Date Analyzed: 2006-07-12
 QC Preparation: 2006-07-12

Analyzed By: MT
 Prepared By: MT

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene ⁹	0.0953	na	mg/L	1	0.100	<0.000305	95	200	80.8 - 117	20
Toluene ¹⁰	0.0889	na	mg/L	1	0.100	<0.000497	89	200	85 - 113	20
Ethylbenzene ¹¹	0.0943	na	mg/L	1	0.100	<0.000294	94	200	80.5 - 112	20
Xylene ¹²	0.276	na	mg/L	1	0.300	<0.000348	92	200	83.8 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT) ¹³	0.0893	na	mg/L	1	0.1	89	0	85 - 114
4-Bromofluorobenzene (4-BFB) ¹⁴	0.0956	na	mg/L	1	0.1	96	0	90.8 - 120

Matrix Spike (MS-1) Spiked Sample: 94817

QC Batch: 28042
 Prep Batch: 24556

Date Analyzed: 2006-07-16
 QC Preparation: 2006-07-14

Analyzed By: JL
 Prepared By: JL

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO ¹⁵	23.5	NA	mg/L	1	25.0	<1.06	94	200	71.1 - 99.1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane ¹⁶	14.7	NA	mg/L	1	15	98	0	50 - 150

Matrix Spike (MS-1) Spiked Sample: 94819

QC Batch: 28176
 Prep Batch: 24651

Date Analyzed: 2006-07-19
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	847	797	mg/L	50	12.5	246	96	6	25.4 - 171	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁹RPD is out of range because a matrix spike duplicate was not prepared.

¹⁰RPD is out of range because a matrix spike duplicate was not prepared.

¹¹RPD is out of range because a matrix spike duplicate was not prepared.

¹²RPD is out of range because a matrix spike duplicate was not prepared.

¹³RPD is out of range because a matrix spike duplicate was not prepared.

¹⁴RPD is out of range because a matrix spike duplicate was not prepared.

¹⁵RPD is out of range because a matrix spike duplicate was not prepared.

¹⁶RPD is out of range because a matrix spike duplicate was not prepared.

Standard (ICV-1)

QC Batch: 27978

Date Analyzed: 2006-07-12

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2006-07-12
Toluene		mg/L	0.100	0.109	109	85 - 115	2006-07-12
Ethylbenzene		mg/L	0.100	0.111	111	85 - 115	2006-07-12
Xylene		mg/L	0.300	0.333	111	85 - 115	2006-07-12

Standard (CCV-1)

QC Batch: 27978

Date Analyzed: 2006-07-12

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	85 - 115	2006-07-12
Toluene		mg/L	0.100	0.105	105	85 - 115	2006-07-12
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2006-07-12
Xylene		mg/L	0.300	0.319	106	85 - 115	2006-07-12

Standard (ICV-1)

QC Batch: 27979

Date Analyzed: 2006-07-12

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	85 - 115	2006-07-12
Toluene		mg/L	0.100	0.0971	97	85 - 115	2006-07-12
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2006-07-12
Xylene		mg/L	0.300	0.307	102	85 - 115	2006-07-12

Standard (CCV-1)

QC Batch: 27979

Date Analyzed: 2006-07-12

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0938	94	85 - 115	2006-07-12
Toluene		mg/L	0.100	0.0864	86	85 - 115	2006-07-12
Ethylbenzene		mg/L	0.100	0.0946	95	85 - 115	2006-07-12
Xylene		mg/L	0.300	0.276	92	85 - 115	2006-07-12

Standard (ICV-1)

QC Batch: 27998

Date Analyzed: 2006-07-13

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.966	97	85 - 115	2006-07-13

Standard (CCV-1)

QC Batch: 27998

Date Analyzed: 2006-07-13

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.922	92	85 - 115	2006-07-13

Standard (ICV-1)

QC Batch: 28042

Date Analyzed: 2006-07-16

Analyzed By: JL

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	312	125	75 - 125	2006-07-16

Standard (CCV-1)

QC Batch: 28042

Date Analyzed: 2006-07-16

Analyzed By: JL

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	272	109	75 - 125	2006-07-16

Standard (ICV-1)

QC Batch: 28176

Date Analyzed: 2006-07-19

Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2006-07-19

Standard (CCV-1)

QC Batch: 28176

Date Analyzed: 2006-07-19

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2006-07-19

TraceAnalysis, Inc. 6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1206 Fax (806) 794-1206 email: lab@traceanalysis.com		155 HrcCutcheon, Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4944 1 (858) 588-3443	
Company Name: City of Lovington Address: 214 South Levee P.O. Box 1249 Contact Person: Kurt Porter Phone #: 505-396-2044 Fax #: 505-396-2044 Email: lab@cityoflovington.com		Chain-of-Custody and Analysis Request LAB Order ID # 001 6071208	
Project Name: Lovington Water Field Project Location (including state): Lovington New Mexico Project #: 505-396-2044 Invoice to: City of Lovington (If different from above) 505-396-2044		ANALYSIS REQUEST (Circle or Specify Method No.) BTEX 8021B / 602 / 8260B / 624 MTBE 8021B / 602 / 8260B / 624 TPH 8015 GRO / DRO / TVHC PAH 8270C / 625 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C / 625 PCB's 8082 / 608 Pesticides 8081A / 608 BOD, TSS, pH Moisture Content Turn Around Time if different from standard	
Matrix: WATER Volume / Amount: 5 # CONTAINERS: 5		Matrix: SLUDGE Volume / Amount: 5 # CONTAINERS: 5	
Field Code: LWF #17 17 LWF #21 18 LWF #16		Sampling Date: 7/10/06 Sampling Time: 1:30 Sampling Method: ICE Preservative: NaOH H ₂ SO ₄ HNO ₃ HCl NONE	
Relinquished by: Edwin Date: 7/10 Time: 1:55		Received by: Paula Date: 7-11-06 Time: 1:55 PM	
Relinquished by: Edwin Date: 7/10 Time: 1:55		Received by: Paula Date: 7-11-06 Time: 5:20 PM	
Relinquished by: Edwin Date: 7/10 Time: 1:55		Received by: Paula Date: 7-11-06 Time: 5:20 PM	
Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.			

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TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name: **City of Lovington** Phone #: **505-396-2044**
Address: **214 South Love P.O. Box 1269** Fax #: **505-396-5328**
Contact Person: **Kurt Porter** Email: **kurt.potter@valop.net.com**
Invoice to: **Same**
(If different from above)

Project #: **Lovington water**
Project Location (including state): **Lovington New Mexico**
Project Name: **Lovington water Field**
Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
94816	LWF #17	5		✓				✓					✓	7/10	1:30
17	LWF #21	5		✓				✓					✓	7/10	1:55
18	LWF #16	5		✓				✓					✓	7/10	2:15

Relinquished by: <i>[Signature]</i>	Date: 7/11	Time: 1:55	Received by: <i>[Signature]</i>	Date: 7-11-06	Time: 1:55 PM
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: <i>[Signature]</i>	Date: 7-11-06	Time: 5:20 PM

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # **001 6071208**

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	8021B / 602 / 8260B / 624
BTEX	8021B / 602 / 8260B / 624
TPH 418-T / TX1005-EX(935) DET + GED 24	
TPH 8015 GRO / DRO / TVHC	
PAH 8270C / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCL	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C / 625	
PCBs 8082 / 608	
Pesticides 8081A / 608	
BOD, TSS, pH	
Moisture Content	✓
Hold	✓

LAB USE ONLY

REMARKS:

Flam send for copy also.

- ☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check if Special Reporting Limits Are Needed

Intact Y / N
Headspace Y / N
Temp 4 °
Log-in-Review *[Signature]*

Carrier # *Cary In*

TRACE ANALYSIS, INC.

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El Paso, Texas 79932

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FAX 915•585•4944

Bill To: City of Lovington
P.O. Box 1269
Lovington, TX

Attn: Kurt Porter

Invoice No. 17785



Invoice Date: 2006-07-21

Payment Due: 2006-08-20

Work Order: 6071209
Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water



Item	Quantity	Matrix	Description	Price	Sub Total
BTEX	3	water	94819 - 94821	\$60.00	\$180.00
TPH GRO	3	water	94819 - 94821	\$60.00	\$180.00
TPH DRO	3	water	94819 - 94821	\$60.00	\$180.00
Chloride (IC)	3	water	94819 - 94821	\$17.00	\$51.00

Payment Terms: Net-30

Total \$591.00

Dr. Blair Leftwich, Director

Report Date: July 21, 2006
Lovington Water

Work Order: 6071209
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071209



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
94819	LWF #17	water	2006-07-11	13:30	2006-07-11
94820	LWF #21	water	2006-07-11	13:40	2006-07-11
94821	LWF #16	water	2006-07-11	13:50	2006-07-11

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
94819 - LWF #17	0.00140	<0.00100	<0.00100	<0.00100		<5.00	<0.100
94820 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
94821 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 94819 - LWF #17

Param	Flag	Result	Units	RL
Chloride		246	mg/L	0.500

Sample: 94820 - LWF #21

Param	Flag	Result	Units	RL
Chloride		101	mg/L	0.500

Sample: 94821 - LWF #16

Param	Flag	Result	Units	RL
Chloride		37.1	mg/L	0.500

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071209



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
94819	LWF #17	water	2006-07-11	13:30	2006-07-11
94820	LWF #21	water	2006-07-11	13:40	2006-07-11
94821	LWF #16	water	2006-07-11	13:50	2006-07-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 94819 - LWF #17

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27997	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	Sample Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00140	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0956	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0815	mg/L	1	0.100	82	70 - 130

Sample: 94819 - LWF #17

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28176	Date Analyzed:	2006-07-19	Analyzed By:	WB
Prep Batch:	24651	Sample Preparation:	2007-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		246	mg/L	50	0.500

Sample: 94819 - LWF #17

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28042	Date Analyzed:	2006-07-16	Analyzed By:	JL
Prep Batch:	24556	Sample Preparation:	2006-07-14	Prepared By:	JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.4	mg/L	1	15.0	103	50 - 150

Sample: 94819 - LWF #17

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	27998	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	Sample Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0934	mg/L	1	0.100	93	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0876	mg/L	1	0.100	88	80 - 120

Sample: 94820 - LWF #21

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
 QC Batch: 27997 Date Analyzed: 2006-07-13 Analyzed By: KB
 Prep Batch: 24530 Sample Preparation: 2006-07-13 Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0942	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0793	mg/L	1	0.100	79	70 - 130

Sample: 94820 - LWF #21

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 28176 Date Analyzed: 2006-07-19 Analyzed By: WB
 Prep Batch: 24651 Sample Preparation: 2007-07-19 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		101	mg/L	10	0.500

Sample: 94820 - LWF #21

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
 QC Batch: 28042 Date Analyzed: 2006-07-16 Analyzed By: JL
 Prep Batch: 24556 Sample Preparation: 2006-07-14 Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.3	mg/L	1	15.0	102	50 - 150

Report Date: July 21, 2006
Lovington Water

Work Order: 6071209
Lovington Water Field

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Lovington, NM

Sample: 94820 - LWF #21

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	27998	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	Sample Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0902	mg/L	1	0.100	90	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0862	mg/L	1	0.100	86	80 - 120

Sample: 94821 - LWF #16

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	27997	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	Sample Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0964	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0798	mg/L	1	0.100	80	70 - 130

Sample: 94821 - LWF #16

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28176	Date Analyzed:	2006-07-19	Analyzed By:	WB
Prep Batch:	24651	Sample Preparation:	2007-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		37.1	mg/L	5	0.500

Sample: 94821 - LWF #16

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28042	Date Analyzed:	2006-07-16	Analyzed By:	JL
Prep Batch:	24556	Sample Preparation:	2006-07-14	Prepared By:	JL

Report Date: July 21, 2006
Lovington Water

Work Order: 6071209
Lovington Water Field

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Lovington, NM

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.4	mg/L	1	15.0	103	50 - 150

Sample: 94821 - LWF #16

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	27998	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	Sample Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0895	mg/L	1	0.100	90	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0863	mg/L	1	0.100	86	80 - 120

Method Blank (1) QC Batch: 27997

QC Batch:	27997	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	QC Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000305	mg/L	0.001
Toluene		<0.000497	mg/L	0.001
Ethylbenzene		<0.000294	mg/L	0.001
Xylene		<0.000348	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	81.4 - 109
4-Bromofluorobenzene (4-BFB)		0.0891	mg/L	1	0.100	89	57.1 - 113

Method Blank (1) QC Batch: 27998

QC Batch:	27998	Date Analyzed:	2006-07-13	Analyzed By:	KB
Prep Batch:	24530	QC Preparation:	2006-07-13	Prepared By:	KB

Parameter	Flag	MDL Result	Units	RL
GRO		0.269	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0987	mg/L	1	0.100	99	82.8 - 124
4-Bromofluorobenzene (4-BFB)		0.0924	mg/L	1	0.100	92	60.5 - 96

Method Blank (1) QC Batch: 28042

QC Batch: 28042
Prep Batch: 24556

Date Analyzed: 2006-07-16
QC Preparation: 2006-07-14

Analyzed By: JL
Prepared By: JL

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.1	mg/L	1	15.0	121	50 - 150

Method Blank (1) QC Batch: 28176

QC Batch: 28176
Prep Batch: 24651

Date Analyzed: 2006-07-19
QC Preparation: 2006-07-19

Analyzed By: WB
Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch: 27997
Prep Batch: 24530

Date Analyzed: 2006-07-13
QC Preparation: 2006-07-13

Analyzed By: KB
Prepared By: KB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.106	0.110	mg/L	1	0.100	<0.000305	106	4	80 - 120	20
Toluene	0.0966	0.101	mg/L	1	0.100	<0.000497	97	4	80 - 120	20
Ethylbenzene	0.104	0.110	mg/L	1	0.100	<0.000294	104	6	80 - 120	20
Xylene	0.306	0.323	mg/L	1	0.300	<0.000348	102	5	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.105	0.110	mg/L	1	0.100	105	110	80 - 120
4-Bromofluorobenzene (4-BFB)	0.102	0.107	mg/L	1	0.100	102	107	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 27998
Prep Batch: 24530

Date Analyzed: 2006-07-13
QC Preparation: 2006-07-13

Analyzed By: KB
Prepared By: KB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	1.00	1.08	mg/L	1	1.00	<0.0272	100	8	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0975	0.0985	mg/L	1	0.100	98	98	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0998	0.100	mg/L	1	0.100	100	100	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28042
 Prep Batch: 24556

Date Analyzed: 2006-07-16
 QC Preparation: 2006-07-14

Analyzed By: JL
 Prepared By: JL

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	26.2	31.3	mg/L	1	25.0	<1.06	105	18	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	15.2	17.3	mg/L	1	15.0	101	115	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 28176
 Prep Batch: 24651

Date Analyzed: 2006-07-19
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	12.1	12.0	mg/L	1	12.5	<0.0181	97	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 94817

QC Batch: 28042
 Prep Batch: 24556

Date Analyzed: 2006-07-16
 QC Preparation: 2006-07-14

Analyzed By: JL
 Prepared By: JL

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	¹ 23.5	NA	mg/L	1	25.0	<1.06	94	200	71.1 - 99.1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	² 14.7	NA	mg/L	1	15	98	0	50 - 150

¹RPD is out of range because a matrix spike duplicate was not prepared.

²RPD is out of range because a matrix spike duplicate was not prepared.

Matrix Spike (MS-1) Spiked Sample: 94819

QC Batch: 28176 Date Analyzed: 2006-07-19 Analyzed By: WB
 Prep Batch: 24651 QC Preparation: 2006-07-19 Prepared By: WB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	847	797	mg/L	50	12.5	246	96	6	25.4 - 171	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 27997 Date Analyzed: 2006-07-13 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2006-07-13
Toluene		mg/L	0.100	0.0930	93	85 - 115	2006-07-13
Ethylbenzene		mg/L	0.100	0.101	101	85 - 115	2006-07-13
Xylene		mg/L	0.300	0.295	98	85 - 115	2006-07-13

Standard (CCV-1)

QC Batch: 27997 Date Analyzed: 2006-07-13 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0958	96	85 - 115	2006-07-13
Toluene		mg/L	0.100	0.0863	86	85 - 115	2006-07-13
Ethylbenzene		mg/L	0.100	0.0939	94	85 - 115	2006-07-13
Xylene		mg/L	0.300	0.273	91	85 - 115	2006-07-13

Standard (ICV-1)

QC Batch: 27998 Date Analyzed: 2006-07-13 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.966	97	85 - 115	2006-07-13

Standard (CCV-1)

QC Batch: 27998 Date Analyzed: 2006-07-13 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.922	92	85 - 115	2006-07-13

Standard (ICV-1)

QC Batch: 28042

Date Analyzed: 2006-07-16

Analyzed By: JL

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	312	125	75 - 125	2006-07-16

Standard (CCV-1)

QC Batch: 28042

Date Analyzed: 2006-07-16

Analyzed By: JL

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	272	109	75 - 125	2006-07-16

Standard (ICV-1)

QC Batch: 28176

Date Analyzed: 2006-07-19

Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2006-07-19

Standard (CCV-1)

QC Batch: 28176

Date Analyzed: 2006-07-19

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2006-07-19

[illegible]

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Bill To: City of Lovington
P.O. Box 1269
Lovington, TX

Attn: Kurt Porter

Invoice No. 17801



Invoice Date: 2006-07-21

Payment Due: 2006-08-20

Work Order: 6071405
Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water



Item	Quantity	Matrix	Description	Price	Sub Total
BTEX	3	water	95140 - 95142	\$60.00	\$180.00
TPH GRO	3	water	95140 - 95142	\$60.00	\$180.00
TPH DRO	3	water	95140 - 95142	\$60.00	\$180.00
Chloride (IC)	3	water	95140 - 95142	\$17.00	\$51.00

Payment Terms: Net-30

Total \$591.00

Dr. Blair Leftwich, Director

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071405



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95140	LWF #17	water	2006-07-12	13:10	2006-07-13
95141	LWF #21	water	2006-07-12	13:20	2006-07-13
95142	LWF #16	water	2006-07-12	13:35	2006-07-13

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95140 - LWF #17	0.00160	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95141 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500
95142 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.500

Sample: 95140 - LWF #17

Param	Flag	Result	Units	RL
Chloride		204	mg/L	0.500

Sample: 95141 - LWF #21

Param	Flag	Result	Units	RL
Chloride		94.1	mg/L	0.500

Sample: 95142 - LWF #16

Param	Flag	Result	Units	RL
Chloride		39.7	mg/L	0.500

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071405



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95140	LWF #17	water	2006-07-12	13:10	2006-07-13
95141	LWF #21	water	2006-07-12	13:20	2006-07-13
95142	LWF #16	water	2006-07-12	13:35	2006-07-13

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 95140 - LWF #17

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28028	Date Analyzed:	2006-07-14	Analyzed By:	KB
Prep Batch:	24549	Sample Preparation:	2006-07-14	Prepared By:	KB

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Benzene		0.00160		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0861	mg/L	1	0.100	86	70.6 - 129.2

Sample: 95140 - LWF #17

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28177	Date Analyzed:	2006-07-20	Analyzed By:	WB
Prep Batch:	24652	Sample Preparation:	2006-07-19	Prepared By:	WB

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Chloride		204		mg/L	10	0.500

Sample: 95140 - LWF #17

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28094	Date Analyzed:	2006-07-18	Analyzed By:	SP
Prep Batch:	24605	Sample Preparation:	2006-07-17	Prepared By:	SP

Parameter	Flag	RL		Units	Dilution	RL
		Result				
DRO		<5.00		mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		17.9	mg/L	1	15.0	119	50 - 150

Sample: 95140 - LWF #17

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	28073	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	1	0.373	mg/L	5	0.100	75	80 - 120
4-Bromofluorobenzene (4-BFB)		0.412	mg/L	5	0.100	82	80 - 120

Sample: 95141 - LWF #21

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 28028 Date Analyzed: 2006-07-14 Analyzed By: KB
Prep Batch: 24549 Sample Preparation: 2006-07-14 Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0861	mg/L	1	0.100	86	70.6 - 129.2

Sample: 95141 - LWF #21

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 28177 Date Analyzed: 2006-07-20 Analyzed By: WB
Prep Batch: 24652 Sample Preparation: 2006-07-19 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		94.1	mg/L	10	0.500

Sample: 95141 - LWF #21

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 28094 Date Analyzed: 2006-07-18 Analyzed By: SP
Prep Batch: 24605 Sample Preparation: 2006-07-17 Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

¹TFT surrogate recovery outside normal limits. ICV/CCV and BFB surrogate recovery show the method to be in control.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.4	mg/L	1	15.0	123	50 - 150

Sample: 95141 - LWF #21

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5030B
 QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 Sample Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.423	mg/L	5	0.100	85	80 - 120
4-Bromofluorobenzene (4-BFB)		0.447	mg/L	5	0.100	89	80 - 120

Sample: 95142 - LWF #16

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
 QC Batch: 28028 Date Analyzed: 2006-07-14 Analyzed By: KB
 Prep Batch: 24549 Sample Preparation: 2006-07-14 Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)		0.0864	mg/L	1	0.100	86	70.6 - 129.2

Sample: 95142 - LWF #16

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 28177 Date Analyzed: 2006-07-20 Analyzed By: WB
 Prep Batch: 24652 Sample Preparation: 2006-07-19 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		39.7	mg/L	5	0.500

Sample: 95142 - LWF #16

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28094	Date Analyzed: 2006-07-18	Analyzed By: SP
Prep Batch: 24605	Sample Preparation: 2006-07-17	Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.4	mg/L	1	15.0	123	50 - 150

Sample: 95142 - LWF #16

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5030B
QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.500	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.417	mg/L	5	0.100	83	80 - 120
4-Bromofluorobenzene (4-BFB)		0.443	mg/L	5	0.100	89	80 - 120

Method Blank (1) QC Batch: 28028

QC Batch: 28028	Date Analyzed: 2006-07-14	Analyzed By: KB
Prep Batch: 24549	QC Preparation: 2006-07-14	Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000210	mg/L	0.001
Ethylbenzene		<0.000317	mg/L	0.001
Xylene		<0.000603	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	76.1 - 117
4-Bromofluorobenzene (4-BFB)		0.0873	mg/L	1	0.100	87	58.5 - 118

Method Blank (1) QC Batch: 28073

QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	QC Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		0.254	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	82.8 - 124
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	60.5 - 96

Method Blank (1) QC Batch: 28094

QC Batch: 28094 Date Analyzed: 2006-07-18 Analyzed By: SP
 Prep Batch: 24605 QC Preparation: 2006-07-17 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.0	mg/L	1	15.0	100	50 - 150

Method Blank (1) QC Batch: 28177

QC Batch: 28177 Date Analyzed: 2006-07-20 Analyzed By: WB
 Prep Batch: 24652 QC Preparation: 2006-07-19 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch: 28028 Date Analyzed: 2006-07-14 Analyzed By: KB
 Prep Batch: 24549 QC Preparation: 2006-07-14 Prepared By: KB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.107	0.105	mg/L	1	0.100	<0.000255	107	2	80.8 - 112	20
Toluene	0.105	0.104	mg/L	1	0.100	<0.000210	105	1	78 - 114	20
Ethylbenzene	0.105	0.105	mg/L	1	0.100	<0.000317	105	0	78.6 - 116	20
Xylene	0.319	0.318	mg/L	1	0.300	<0.000603	106	0	83.2 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.0989	mg/L	1	0.100	101	99	79.9 - 117
4-Bromofluorobenzene (4-BFB)	0.0966	0.0950	mg/L	1	0.100	97	95	79 - 123

Laboratory Control Spike (LCS-1)

QC Batch: 28073
 Prep Batch: 24589

Date Analyzed: 2006-07-17
 QC Preparation: 2006-07-17

Analyzed By: MT
 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	0.848	0.850	mg/L	1	1.00	<0.0272	85	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0819	0.0768	mg/L	1	0.100	82	77	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0906	0.0867	mg/L	1	0.100	91	87	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28094
 Prep Batch: 24605

Date Analyzed: 2006-07-18
 QC Preparation: 2006-07-17

Analyzed By: SP
 Prepared By: SP

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	25.1	26.5	mg/L	1	25.0	<1.06	100	5	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	15.2	15.0	mg/L	1	15.0	101	100	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 28177
 Prep Batch: 24652

Date Analyzed: 2006-07-20
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.7	11.9	mg/L	1	12.5	<0.0181	94	2	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 95162

QC Batch: 28028
 Prep Batch: 24549

Date Analyzed: 2006-07-14
 QC Preparation: 2006-07-14

Analyzed By: KB
 Prepared By: KB

continued ...

²LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

matrix spikes continued...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	³ 0.106	NA	mg/L	1	0.100	<0.000255	106	200	70.9 - 126	20
Toluene	⁴ 0.105	NA	mg/L	1	0.100	<0.000210	105	200	70.8 - 125	20
Ethylbenzene	⁵ 0.108	NA	mg/L	1	0.100	<0.000317	108	200	74.8 - 125	20
Xylene	⁶ 0.321	NA	mg/L	1	0.300	<0.000603	107	200	75.7 - 126	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁷ 0.102	NA	mg/L	1	0.1	102	0	73.6 - 121
4-Bromofluorobenzene (4-BFB)	⁸ 0.0968	NA	mg/L	1	0.1	97	0	81.8 - 114

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28073
Prep Batch: 24589

Date Analyzed: 2006-07-17
QC Preparation: 2006-07-17

Analyzed By: MT
Prepared By: MT

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	⁹ 0.845	NA	mg/L	1	1.00	<0.0272	84	200	51.1 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	¹⁰ 0.0798	NA	mg/L	1	0.1	80	0	52.3 - 137
4-Bromofluorobenzene (4-BFB)	¹¹ 0.0899	NA	mg/L	1	0.1	90	0	83.3 - 110

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28094
Prep Batch: 24605

Date Analyzed: 2006-07-18
QC Preparation: 2006-07-17

Analyzed By: SP
Prepared By: SP

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	¹² 24.3	NA	mg/L	1	25.0	<1.06	97	200	71.1 - 99.1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

³RPD is out of range because a matrix spike duplicate was not prepared.

⁴RPD is out of range because a matrix spike duplicate was not prepared.

⁵RPD is out of range because a matrix spike duplicate was not prepared.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

⁷RPD is out of range because a matrix spike duplicate was not prepared.

⁸RPD is out of range because a matrix spike duplicate was not prepared.

⁹RPD is out of range because a matrix spike duplicate was not prepared.

¹⁰RPD is out of range because a matrix spike duplicate was not prepared.

¹¹RPD is out of range because a matrix spike duplicate was not prepared.

¹²RPD is out of range because a matrix spike duplicate was not prepared.

Report Date: July 21, 2006
Lovington Water

Work Order: 6071405
Lovington Water Field

Page Number: 9 of 11
Lovington, NM

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	¹³ C	16.9	NA	mg/L	1	15	113	0	50 - 150

Matrix Spike (MS-1) Spiked Sample: 95327

QC Batch: 28177
Prep Batch: 24652

Date Analyzed: 2006-07-20
QC Preparation: 2006-07-19

Analyzed By: WB
Prepared By: WB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1610	1620	mg/L	100	12.5	442	93	1	25.4 - 171	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28028

Date Analyzed: 2006-07-14

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2006-07-14
Toluene		mg/L	0.100	0.108	108	85 - 115	2006-07-14
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2006-07-14
Xylene		mg/L	0.300	0.328	109	85 - 115	2006-07-14

Standard (CCV-1)

QC Batch: 28028

Date Analyzed: 2006-07-14

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2006-07-14
Toluene		mg/L	0.100	0.102	102	85 - 115	2006-07-14
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2006-07-14
Xylene		mg/L	0.300	0.309	103	85 - 115	2006-07-14

Standard (ICV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.895	90	85 - 115	2006-07-17

¹³RPD is out of range because a matrix spike duplicate was not prepared.

Standard (CCV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.852	85	85 - 115	2006-07-17

Standard (ICV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (CCV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (ICV-1)

QC Batch: 28177

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2006-07-20

Standard (CCV-1)

QC Batch: 28177

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2006-07-20

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1295 Fax (806) 794-1298 1 (800) 378-1295 email: lab@traceanalysis.com		155 McCutcheon, Suite H El Paso, Texas 79932 Tel (915) 585-3443 Fax (915) 585-4344 1 (888) 585-3443		TraceAnalysis, Inc. Company Name: <u>City of Lovington</u> Phone #: <u>505 396 2044</u> Address: <u>214 South Love</u> (Street, City, Zip) Fax #: <u>505 396 6328</u> Contact Person: <u>Kurt Portor</u> E-mail: <u></u> Invoice to: <u>Lovington Water Field</u> Project #: <u></u> Project Name: <u>Lovington Water</u> Project Location (including state): <u>Lovington New Mexico</u> Sampler Signature: <u>Eduardo</u>	
Carrier # <u>Carry 1a</u> CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # <u>003 4071405</u>		ANALYSIS REQUEST (Circle or Specify Method No.)			
LAB # (LAB USE ONLY) 9540 LWF # 17 41 LWF # 21 42 LWF # 16		MATRIX WATER SOIL AIR SLUDGE		PRESERVATIVE HCl HNO₃ H₂SO₄ NaOH ICE NONE	
FIELD CODE		VOLUME / AMOUNT		SAMPLING DATE TIME	
MTBE 8021B / 602 / 8260B / 624 BTEX 8021B / 602 / 8260B / 624 TPH 418.1 / TX1005 / TX1005 EXT(C35) TPH 8015 GRO / DKO / TVHC PAH 8270C / 625 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C / 625 PCBs 8082 / 608 Pesticides 8081A / 608 BOD, TSS, pH Moisture Content		Turn Around Time if different from standard		REMARKS: LAB USE ONLY Intact ☒ Y ☒ N Headspace ☒ Y ☒ N Temp. ☒ 2 ☒ 3 Log-in/Review ☒ X Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed ☐	
Relinquished by: <u>Eduardo</u> Date: <u>7/12</u> Time: <u>11:20 AM</u> Relinquished by: <u>Kurt Portor</u> Date: <u>7/13/06</u> Time: <u>3:40 PM</u>		Received by: <u>Donal</u> Date: <u>7-2-06</u> Time: <u>1:50 PM</u> Received by: <u>Donal</u> Date: <u>7/13/06</u> Time: <u>4:30</u>		Relinquished by: <u>Donal</u> Date: <u>7/13/06</u> Time: <u>11:20 AM</u> Relinquished by: <u>Kurt Portor</u> Date: <u>7/13/06</u> Time: <u>4:30</u>	

155 McCutcheon, Suite H
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TraceAnalysis, Inc.

Company Name:	City of Livingston	Phone #:	505 396 2044
Address:	(Street, City, Zip) 214 South Love P.O. Box 1269	Fax #:	505 394 6328
Contact Person:		E-mail:	

Contact Person: Kurt Portov

Invoice to: Sam
(If different from above)

Project #:	Levington Waters Field	Project Name:	Levington Waters
Project Location (including state):	Levington New Mexico	Sampler Signature:	Eddies W. [Signature]

Project Location (including state):

[illegible]

Relinquished by: <i>Edwin Wilson</i>	Date: <i>7/12</i>	Time: <i></i>	Received by: <i>Reynolds</i>	Date: <i>7.12.06</i>	Time: <i>1:50 pm</i>
Relinquished by: <i>Reynolds</i>	Date: <i>7/13/06</i>	Time: <i>11:00 AM</i>	Received by: <i></i>	Date: <i></i>	Time: <i></i>
Relinquished by: <i>Paul Fitch</i>	Date: <i>7/13/06</i>	Time: <i>3:40 PM</i>	Received at Laboratory by: <i>Amold</i>	Date: <i>3/12/06</i>	Time: <i>4:12</i>

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CONFIDENTIAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 003 6071405

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

LAB USE ONLY

REMARKS.

ONLY

Intact Y / N

Headspace Y / N

Temp 2

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check if Special Reporting Limits Are Needed

Used for copy

Carrier # Conny 1a

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Bill To: City of Lovington
P.O. Box 1269
Lovington, TX

Attn: Kurt Porter

Invoice No. 17811



Invoice Date: 2006-07-21

Payment Due: 2006-08-20

Work Order: 6071727
Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water



Item	Quantity	Matrix	Description	Price	Sub Total
BTEX	3	water	95525 - 95527	\$60.00	\$180.00
TPH GRO	3	water	95525 - 95527	\$60.00	\$180.00
TPH DRO	3	water	95525 - 95527	\$60.00	\$180.00
Chloride (IC)	3	water	95525 - 95527	\$17.00	\$51.00

Payment Terms: Net-30

Total \$591.00

Dr. Blair Leftwich, Director

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071727



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95525	LWF #21	water	2006-07-16	14:00	2006-07-17
95526	LWF #17	water	2006-07-16	14:15	2006-07-17
95527	LWF #16	water	2006-07-16	14:35	2006-07-17

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95525 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95526 - LWF #17	0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95527 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 95525 - LWF #21

Param	Flag	Result	Units	RL
Chloride		102	mg/L	0.500

Sample: 95526 - LWF #17

Param	Flag	Result	Units	RL
Chloride		224	mg/L	0.500

Sample: 95527 - LWF #16

Param	Flag	Result	Units	RL
Chloride		45.2	mg/L	0.500

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071727



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95525	LWF #21	water	2006-07-16	14:00	2006-07-17
95526	LWF #17	water	2006-07-16	14:15	2006-07-17
95527	LWF #16	water	2006-07-16	14:35	2006-07-17

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 95525 - LWF #21

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 28072	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0845	mg/L	1	0.100	84	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0807	mg/L	1	0.100	81	70 - 130

Sample: 95525 - LWF #21

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 28178	Date Analyzed: 2006-07-20	Analyzed By: WB
Prep Batch: 24653	Sample Preparation: 2006-07-19	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		102	mg/L	10	0.500

Sample: 95525 - LWF #21

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28094	Date Analyzed: 2006-07-18	Analyzed By: SP
Prep Batch: 24605	Sample Preparation: 2006-07-17	Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.9	mg/L	1	15.0	126	50 - 150

Sample: 95525 - LWF #21

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5030B
QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0795	mg/L	1	0.100	80	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0828	mg/L	1	0.100	83	80 - 120

Sample: 95526 - LWF #17

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
 QC Batch: 28072 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 Sample Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0874	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0840	mg/L	1	0.100	84	70 - 130

Sample: 95526 - LWF #17

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 28178 Date Analyzed: 2006-07-20 Analyzed By: WB
 Prep Batch: 24653 Sample Preparation: 2006-07-19 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		224	mg/L	10	0.500

Sample: 95526 - LWF #17

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
 QC Batch: 28094 Date Analyzed: 2006-07-18 Analyzed By: SP
 Prep Batch: 24605 Sample Preparation: 2006-07-17 Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		20.5	mg/L	1	15.0	137	50 - 150

Sample: 95526 - LWF #17

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5030B
QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0824	mg/L	1	0.100	82	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0843	mg/L	1	0.100	84	80 - 120

Sample: 95527 - LWF #16

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 28072	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0827	mg/L	1	0.100	83	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0807	mg/L	1	0.100	81	70 - 130

Sample: 95527 - LWF #16

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 28178	Date Analyzed: 2006-07-20	Analyzed By: WB
Prep Batch: 24653	Sample Preparation: 2006-07-19	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		45.2	mg/L	5	0.500

Sample: 95527 - LWF #16

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28094	Date Analyzed: 2006-07-18	Analyzed By: SP
Prep Batch: 24605	Sample Preparation: 2006-07-17	Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.4	mg/L	1	15.0	123	50 - 150

Sample: 95527 - LWF #16

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5030B
 QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 Sample Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0758	mg/L	1	0.100	76	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0815	mg/L	1	0.100	82	80 - 120

Method Blank (1) QC Batch: 28072

QC Batch: 28072 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 QC Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000305	mg/L	0.001
Toluene		<0.000497	mg/L	0.001
Ethylbenzene		<0.000294	mg/L	0.001
Xylene		<0.000348	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0934	mg/L	1	0.100	93	81.4 - 109
4-Bromofluorobenzene (4-BFB)		0.0956	mg/L	1	0.100	96	57.1 - 113

Method Blank (1) QC Batch: 28073

QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 QC Preparation: 2006-07-17 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		0.254	mg/L	0.1

¹TFT surrogate recovery outside normal limits. ICV/CCV and BFB surrogate recovery show the method to be in control.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	82.8 - 124
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	60.5 - 96

Method Blank (1) QC Batch: 28094

QC Batch: 28094
 Prep Batch: 24605

Date Analyzed: 2006-07-18
 QC Preparation: 2006-07-17

Analyzed By: SP
 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.0	mg/L	1	15.0	100	50 - 150

Method Blank (1) QC Batch: 28178

QC Batch: 28178
 Prep Batch: 24653

Date Analyzed: 2006-07-20
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch: 28072
 Prep Batch: 24589

Date Analyzed: 2006-07-17
 QC Preparation: 2006-07-17

Analyzed By: MT
 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0926	0.0889	mg/L	1	0.100	<0.000305	93	4	80 - 120	20
Toluene	0.0910	0.0899	mg/L	1	0.100	<0.000497	91	1	80 - 120	20
Ethylbenzene	0.0924	0.0928	mg/L	1	0.100	<0.000294	92	0	80 - 120	20
Xylene	0.281	0.274	mg/L	1	0.300	<0.000348	94	2	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0865	0.0845	mg/L	1	0.100	86	84	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0951	0.0907	mg/L	1	0.100	95	91	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28073
 Prep Batch: 24589

Date Analyzed: 2006-07-17
 QC Preparation: 2006-07-17

Analyzed By: MT
 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	0.848	0.850	mg/L	1	1.00	<0.0272	85	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0819	0.0768	mg/L	1	0.100	82	77	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0906	0.0867	mg/L	1	0.100	91	87	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28094
 Prep Batch: 24605

Date Analyzed: 2006-07-18
 QC Preparation: 2006-07-17

Analyzed By: SP
 Prepared By: SP

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	25.1	26.5	mg/L	1	25.0	<1.06	100	5	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	15.2	15.0	mg/L	1	15.0	101	100	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 28178
 Prep Batch: 24653

Date Analyzed: 2006-07-20
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.8	11.8	mg/L	1	12.5	<0.0181	94	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28073
 Prep Batch: 24589

Date Analyzed: 2006-07-17
 QC Preparation: 2006-07-17

Analyzed By: MT
 Prepared By: MT

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	0.845	NA	mg/L	1	1.00	<0.0272	84	200	51.1 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

²LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

³RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁴ 0.0798	NA	mg/L	1	0.1	80	0	52.3 - 137
4-Bromofluorobenzene (4-BFB)	⁵ 0.0899	NA	mg/L	1	0.1	90	0	83.3 - 110

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28094 Date Analyzed: 2006-07-18 Analyzed By: SP
Prep Batch: 24605 QC Preparation: 2006-07-17 Prepared By: SP

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	⁶ 24.3	NA	mg/L	1	25.0	<1.06	97	200	71.1 - 99.1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	⁷ 16.9	NA	mg/L	1	15	113	0	50 - 150

Matrix Spike (MS-1) Spiked Sample: 95745

QC Batch: 28178 Date Analyzed: 2006-07-20 Analyzed By: WB
Prep Batch: 24653 QC Preparation: 2006-07-19 Prepared By: WB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	995	1000	mg/L	50	12.5	338	105	1	25.4 - 171	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28072 Date Analyzed: 2006-07-17 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0928	93	85 - 115	2006-07-17
Toluene		mg/L	0.100	0.0915	92	85 - 115	2006-07-17
Ethylbenzene		mg/L	0.100	0.0936	94	85 - 115	2006-07-17
Xylene		mg/L	0.300	0.284	95	85 - 115	2006-07-17

⁴RPD is out of range because a matrix spike duplicate was not prepared.

⁵RPD is out of range because a matrix spike duplicate was not prepared.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

⁷RPD is out of range because a matrix spike duplicate was not prepared.

Standard (CCV-1)

QC Batch: 28072

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0890	89	85 - 115	2006-07-17
Toluene		mg/L	0.100	0.0881	88	85 - 115	2006-07-17
Ethylbenzene		mg/L	0.100	0.0861	86	85 - 115	2006-07-17
Xylene		mg/L	0.300	0.258	86	85 - 115	2006-07-17

Standard (ICV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.895	90	85 - 115	2006-07-17

Standard (CCV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.852	85	85 - 115	2006-07-17

Standard (CCV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (CCV-2)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	254	102	75 - 125	2006-07-18

Standard (ICV-1)

QC Batch: 28178

Date Analyzed: 2006-07-20

Analyzed By: WB

Report Date: July 21, 2006
Lovington Water

Work Order: 6071727
Lovington Water Field

Page Number: 10 of 11
Lovington, NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2006-07-20

Standard (CCV-1)

QC Batch: 28178

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	91	90 - 110	2006-07-20

Log in Review
Carrier #
Limits Are Needed

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 007 607172 J

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY

REMARKS: Fax Results

Intact
Headspace
Temp

TPH 8015 GRO / DRO / TVHC
PAH 8270C / 625
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
RCL
GC/MS Vol. 8260B / 624
GC/MS Semi. Vol. 8270C / 625
PCB's 8082 / 608
Pesticides 8081A / 608
BOD, TSS, pH
Moisture Content

MTBE 8021B / 602 / 8260B / 624
BTEX 8021B / 602 / 8260B / 624
TPH 418.1 / TX1005 / TX1005 EX(C35) / 602 / DRO

DATE
TIME

PRESERVATIVE METHOD
NONE
ICE
NaOH
H₂SO₄
HNO₃
HCl

MATRIX
SLUDGE
AIR
SOIL
WATER

VOLUME / AMOUNT

CONTAINERS

FIELD CODE

LAB #
(LAB USE ONLY)

95525 LWF# 21
27 LWF# 17
27 LWF# 16

2000
2150
2350

7/16
7/16
7/16

5
5
5

1
1
1

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-2433
Fax (915) 585-4944
1 (888) 588-3443

TraceAnalysis, Inc.

Phone #: 505 396-2884
Fax #: 505 396-6328
E-mail: info@traceanalysis.com

Company Name: City of Lovington
(Street, City, Zip)
Address: P.O. Box 1268, Lovington NM 88260
Contact Person: Kurt Porter
Invoice to: Same
Project #: Lovington Water Field
Lovington NM

Project Location (including state):
Project Name:
Sampler Signature: Kurt Porter

Relinquished by: Kurt Porter
Date: 7/16/06
Time: 7:55 AM

Received by: Kurt Porter
Date: 7-17-06
Time: 7:55 AM

Relinquished by: Kurt Porter
Date: 7/16/06
Time: 7:55 AM

Received by: Kurt Porter
Date: 7-17-06
Time: 7:55 AM

Relinquished by: Kurt Porter
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Date: 7-17-06
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TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Bill To: City of Lovington
P.O. Box 1269
Lovington, TX

Attn: Kurt Porter

Invoice No. 17809



Invoice Date: 2006-07-21

Payment Due: 2006-08-20

Work Order: 6071707
Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water



Item	Quantity	Matrix	Description	Price	Sub Total
BTEX	3	water	95374 - 95376	\$60.00	\$180.00
TPH GRO	3	water	95374 - 95376	\$60.00	\$180.00
TPH DRO	3	water	95374 - 95376	\$60.00	\$180.00
Chloride (IC)	3	water	95374 - 95376	\$17.00	\$51.00

Payment Terms: Net-30

Total \$591.00

Dr. Blair Leftwich, Director

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071707



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95374	LWF #21	water	2006-07-14	10:10	2006-07-14
95375	LWF #17	water	2006-07-14	10:25	2006-07-14
95376	LWF #16	water	2006-07-14	10:35	2006-07-14

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95374 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95375 - LWF #17	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95376 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 95374 - LWF #21

Param	Flag	Result	Units	RL
Chloride		102	mg/L	0.500

Sample: 95375 - LWF #17

Param	Flag	Result	Units	RL
Chloride		212	mg/L	0.500

Sample: 95376 - LWF #16

Param	Flag	Result	Units	RL
Chloride		43.1	mg/L	0.500

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071707



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95374	LWF #21	water	2006-07-14	10:10	2006-07-14
95375	LWF #17	water	2006-07-14	10:25	2006-07-14
95376	LWF #16	water	2006-07-14	10:35	2006-07-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 95374 - LWF #21

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28072	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0880	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0894	mg/L	1	0.100	89	70 - 130

Sample: 95374 - LWF #21

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28178	Date Analyzed:	2006-07-20	Analyzed By:	WB
Prep Batch:	24653	Sample Preparation:	2006-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		102	mg/L	10	0.500

Sample: 95374 - LWF #21

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28094	Date Analyzed:	2006-07-18	Analyzed By:	SP
Prep Batch:	24605	Sample Preparation:	2006-07-17	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.2	mg/L	1	15.0	121	50 - 150

Sample: 95374 - LWF #21

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	28073	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0818	mg/L	1	0.100	82	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0871	mg/L	1	0.100	87	80 - 120

Sample: 95375 - LWF #17

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 28072	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	1	<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0778	mg/L	1	0.100	78	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0749	mg/L	1	0.100	75	70 - 130

Sample: 95375 - LWF #17

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 28178	Date Analyzed: 2006-07-20	Analyzed By: WB
Prep Batch: 24653	Sample Preparation: 2006-07-19	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		212	mg/L	10	0.500

Sample: 95375 - LWF #17

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28094	Date Analyzed: 2006-07-18	Analyzed By: SP
Prep Batch: 24605	Sample Preparation: 2006-07-17	Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

¹"Estimated concentration" 0.00080 mg/L.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		19.8	mg/L	1	15.0	132	50 - 150

Sample: 95375 - LWF #17

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	28073	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0809	mg/L	1	0.100	81	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0810	mg/L	1	0.100	81	80 - 120

Sample: 95376 - LWF #16

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28072	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0895	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0840	mg/L	1	0.100	84	70 - 130

Sample: 95376 - LWF #16

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28178	Date Analyzed:	2006-07-20	Analyzed By:	WB
Prep Batch:	24653	Sample Preparation:	2006-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		43.1	mg/L	5	0.500

Sample: 95376 - LWF #16

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28094	Date Analyzed: 2006-07-18	Analyzed By: SP
Prep Batch: 24605	Sample Preparation: 2006-07-17	Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		19.3	mg/L	1	15.0	129	50 - 150

Sample: 95376 - LWF #16

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5030B
QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0843	mg/L	1	0.100	84	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0858	mg/L	1	0.100	86	80 - 120

Method Blank (1) QC Batch: 28072

QC Batch: 28072	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	QC Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000305	mg/L	0.001
Toluene		<0.000497	mg/L	0.001
Ethylbenzene		<0.000294	mg/L	0.001
Xylene		<0.000348	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0934	mg/L	1	0.100	93	81.4 - 109
4-Bromofluorobenzene (4-BFB)		0.0956	mg/L	1	0.100	96	57.1 - 113

Method Blank (1) QC Batch: 28073

QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	QC Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		0.254	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	82.8 - 124
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	60.5 - 96

Method Blank (1) QC Batch: 28094

QC Batch: 28094 Date Analyzed: 2006-07-18 Analyzed By: SP
 Prep Batch: 24605 QC Preparation: 2006-07-17 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.0	mg/L	1	15.0	100	50 - 150

Method Blank (1) QC Batch: 28178

QC Batch: 28178 Date Analyzed: 2006-07-20 Analyzed By: WB
 Prep Batch: 24653 QC Preparation: 2006-07-19 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch: 28072 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 QC Preparation: 2006-07-17 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0926	0.0889	mg/L	1	0.100	<0.000305	93	4	80 - 120	20
Toluene	0.0910	0.0899	mg/L	1	0.100	<0.000497	91	1	80 - 120	20
Ethylbenzene	0.0924	0.0928	mg/L	1	0.100	<0.000294	92	0	80 - 120	20
Xylene	0.281	0.274	mg/L	1	0.300	<0.000348	94	2	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0865	0.0845	mg/L	1	0.100	86	84	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0951	0.0907	mg/L	1	0.100	95	91	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 QC Preparation: 2006-07-17 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	0.848	0.850	mg/L	1	1.00	<0.0272	85	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0819	0.0768	mg/L	1	0.100	82	77	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0906	0.0867	mg/L	1	0.100	91	87	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28094 Date Analyzed: 2006-07-18 Analyzed By: SP
 Prep Batch: 24605 QC Preparation: 2006-07-17 Prepared By: SP

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	25.1	26.5	mg/L	1	25.0	<1.06	100	5	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	15.2	15.0	mg/L	1	15.0	101	100	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 28178 Date Analyzed: 2006-07-20 Analyzed By: WB
 Prep Batch: 24653 QC Preparation: 2006-07-19 Prepared By: WB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.8	11.8	mg/L	1	12.5	<0.0181	94	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28073 Date Analyzed: 2006-07-17 Analyzed By: MT
 Prep Batch: 24589 QC Preparation: 2006-07-17 Prepared By: MT

continued...

²LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

matrix spikes continued ...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	³ 0.845	NA	mg/L	1	1.00	<0.0272	84	200	51.1 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	⁴ 0.0798	NA	mg/L	1	0.1	80	0	52.3 - 137
4-Bromofluorobenzene (4-BFB)	⁵ 0.0899	NA	mg/L	1	0.1	90	0	83.3 - 110

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28094
Prep Batch: 24605

Date Analyzed: 2006-07-18
QC Preparation: 2006-07-17

Analyzed By: SP
Prepared By: SP

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	⁶ 24.3	NA	mg/L	1	25.0	<1.06	97	200	71.1 - 99.1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	⁷ 16.9	NA	mg/L	1	15	113	0	50 - 150

Matrix Spike (MS-1) Spiked Sample: 95745

QC Batch: 28178
Prep Batch: 24653

Date Analyzed: 2006-07-20
QC Preparation: 2006-07-19

Analyzed By: WB
Prepared By: WB

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	995	1000	mg/L	50	12.5	338	105	1	25.4 - 171	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28072

Date Analyzed: 2006-07-17

Analyzed By: MT

³RPD is out of range because a matrix spike duplicate was not prepared.

⁴RPD is out of range because a matrix spike duplicate was not prepared.

⁵RPD is out of range because a matrix spike duplicate was not prepared.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

⁷RPD is out of range because a matrix spike duplicate was not prepared.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0928	93	85 - 115	2006-07-17
Toluene		mg/L	0.100	0.0915	92	85 - 115	2006-07-17
Ethylbenzene		mg/L	0.100	0.0936	94	85 - 115	2006-07-17
Xylene		mg/L	0.300	0.284	95	85 - 115	2006-07-17

Standard (CCV-1)

QC Batch: 28072

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0890	89	85 - 115	2006-07-17
Toluene		mg/L	0.100	0.0881	88	85 - 115	2006-07-17
Ethylbenzene		mg/L	0.100	0.0861	86	85 - 115	2006-07-17
Xylene		mg/L	0.300	0.258	86	85 - 115	2006-07-17

Standard (ICV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.895	90	85 - 115	2006-07-17

Standard (CCV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.852	85	85 - 115	2006-07-17

Standard (ICV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (CCV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (CCV-2)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	254	102	75 - 125	2006-07-18

Standard (ICV-1)

QC Batch: 28178

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2006-07-20

Standard (CCV-1)

QC Batch: 28178

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	91	90 - 110	2006-07-20

[illegible]

95374-76

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1 (888) 588-3443

Company Name:

CITY of Lovington

Address: (Street, City, Zip)

PO box 1268

Contact Person:

Kurt Porter

Invoice to:

(If different from above) Same

Project #:

Lovington Water Field

Project Location (including state):

Lovington NM

Project Name:

Sampler Signature:

Kurt Porter

Phone #:

505 396-2884

Fax #:

505 396-6328

E-mail:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

005 4071707

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1006 EX(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride	Turn Around Time if different from standard
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LAB USE ONLY

REMARKS:

Fax Copy

- ☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check if Special Reporting Limits Are Needed

Intact ☒ IN

Headspace Y/N ☒ Y

Temp 40°

Log-in-Review

Carrier #

Carry in

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
95374	LWF # 21	5		✓				✓				✓		7/14	10:10 AM
75	LWF # 17	5		✓				✓				✓		7/14	10:25 AM
76	LWF # 16	5		✓				✓				✓		7/14	10:35 AM

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

Kurt Porter 7/14/06 1:45 Megan McCloud 7-14-06 1:45

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

TRACE ANALYSIS, INC.

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El Paso, Texas 79932 888•588•3443
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806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

Bill To: City of Lovington
P.O. Box 1269
Lovington, TX

Attn: Kurt Porter

Invoice No. 17810



Invoice Date: 2006-07-21

Payment Due: 2006-08-20

Work Order: 6071726
Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Item	Quantity	Matrix	Description	Price	Sub Total
BTEX	3	water	95522 - 95524	\$60.00	\$180.00
TPH GRO	3	water	95522 - 95524	\$60.00	\$180.00
TPH DRO	3	water	95522 - 95524	\$60.00	\$180.00
Chloride (IC)	3	water	95522 - 95524	\$17.00	\$51.00

Payment Terms: Net-30

Total \$591.00

Dr. Blair Leftwich, Director

Report Date: July 21, 2006
Lovington Water

Work Order: 6071726
Lovington Water Field

Page Number: 1 of 1
Lovington, NM

Summary Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071726



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95522	LWF #21	water	2006-07-15	12:00	2006-07-17
95523	LWF #17	water	2006-07-15	12:15	2006-07-17
95524	LWF #16	water	2006-07-15	12:30	2006-07-17

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
95522 - LWF #21	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95523 - LWF #17	0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100
95524 - LWF #16	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 95522 - LWF #21

Param	Flag	Result	Units	RL
Chloride		99.5	mg/L	0.500

Sample: 95523 - LWF #17

Param	Flag	Result	Units	RL
Chloride		216	mg/L	0.500

Sample: 95524 - LWF #16

Param	Flag	Result	Units	RL
Chloride		43.6	mg/L	0.500

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Kurt Porter
City of Lovington
P.O. Box 1269
Lovington, TX,

Report Date: July 21, 2006

Work Order: 6071726



Project Location: Lovington, NM
Project Name: Lovington Water Field
Project Number: Lovington Water

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95522	LWF #21	water	2006-07-15	12:00	2006-07-17
95523	LWF #17	water	2006-07-15	12:15	2006-07-17
95524	LWF #16	water	2006-07-15	12:30	2006-07-17

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 95522 - LWF #21

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28072	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0873	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0822	mg/L	1	0.100	82	70 - 130

Sample: 95522 - LWF #21

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28178	Date Analyzed:	2006-07-20	Analyzed By:	WB
Prep Batch:	24653	Sample Preparation:	2006-07-19	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		99.5	mg/L	10	0.500

Sample: 95522 - LWF #21

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	28094	Date Analyzed:	2006-07-18	Analyzed By:	SP
Prep Batch:	24605	Sample Preparation:	2006-07-17	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		17.7	mg/L	1	15.0	118	50 - 150

Sample: 95522 - LWF #21

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	28073	Date Analyzed:	2006-07-17	Analyzed By:	MT
Prep Batch:	24589	Sample Preparation:	2006-07-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0821	mg/L	1	0.100	82	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0840	mg/L	1	0.100	84	80 - 120

Sample: 95523 - LWF #17

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 28072	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0864	mg/L	1	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0816	mg/L	1	0.100	82	70 - 130

Sample: 95523 - LWF #17

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 28178	Date Analyzed: 2006-07-20	Analyzed By: WB
Prep Batch: 24653	Sample Preparation: 2006-07-19	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		216	mg/L	10	0.500

Sample: 95523 - LWF #17

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 28094	Date Analyzed: 2006-07-18	Analyzed By: SP
Prep Batch: 24605	Sample Preparation: 2006-07-17	Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		19.6	mg/L	1	15.0	131	50 - 150

Report Date: July 21, 2006
Lovington Water

Work Order: 6071726
Lovington Water Field

Page Number: 4 of 11
Lovington, NM

Sample: 95523 - LWF #17

Analysis: TPH GRO
QC Batch: 28073
Prep Batch: 24589

Analytical Method: S 8015B
Date Analyzed: 2006-07-17
Sample Preparation: 2006-07-17

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0816	mg/L	1	0.100	82	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0827	mg/L	1	0.100	83	80 - 120

Sample: 95524 - LWF #16

Analysis: BTEX
QC Batch: 28072
Prep Batch: 24589

Analytical Method: S 8021B
Date Analyzed: 2006-07-17
Sample Preparation: 2006-07-17

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0996	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0942	mg/L	1	0.100	94	70 - 130

Sample: 95524 - LWF #16

Analysis: Chloride (IC)
QC Batch: 28178
Prep Batch: 24653

Analytical Method: E 300.0
Date Analyzed: 2006-07-20
Sample Preparation: 2006-07-19

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		43.6	mg/L	5	0.500

Sample: 95524 - LWF #16

Analysis: TPH DRO
QC Batch: 28094
Prep Batch: 24605

Analytical Method: Mod. 8015B
Date Analyzed: 2006-07-18
Sample Preparation: 2006-07-17

Prep Method: N/A
Analyzed By: SP
Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		18.8	mg/L	1	15.0	125	50 - 150

Sample: 95524 - LWF #16

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5030B
QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	Sample Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0939	mg/L	1	0.100	94	80 - 120
4-Bromofluorobenzene (4-BFB)		0.0959	mg/L	1	0.100	96	80 - 120

Method Blank (1) QC Batch: 28072

QC Batch: 28072	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	QC Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000305	mg/L	0.001
Toluene		<0.000497	mg/L	0.001
Ethylbenzene		<0.000294	mg/L	0.001
Xylene		<0.000348	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0934	mg/L	1	0.100	93	81.4 - 109
4-Bromofluorobenzene (4-BFB)		0.0956	mg/L	1	0.100	96	57.1 - 113

Method Blank (1) QC Batch: 28073

QC Batch: 28073	Date Analyzed: 2006-07-17	Analyzed By: MT
Prep Batch: 24589	QC Preparation: 2006-07-17	Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		0.254	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0861	mg/L	1	0.100	86	82.8 - 124
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	60.5 - 96

Method Blank (1) QC Batch: 28094

QC Batch: 28094
 Prep Batch: 24605

Date Analyzed: 2006-07-18
 QC Preparation: 2006-07-17

Analyzed By: SP
 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.0	mg/L	1	15.0	100	50 - 150

Method Blank (1) QC Batch: 28178

QC Batch: 28178
 Prep Batch: 24653

Date Analyzed: 2006-07-20
 QC Preparation: 2006-07-19

Analyzed By: WB
 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Laboratory Control Spike (LCS-1)

QC Batch: 28072
 Prep Batch: 24589

Date Analyzed: 2006-07-17
 QC Preparation: 2006-07-17

Analyzed By: MT
 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0926	0.0889	mg/L	1	0.100	<0.000305	93	4	80 - 120	20
Toluene	0.0910	0.0899	mg/L	1	0.100	<0.000497	91	1	80 - 120	20
Ethylbenzene	0.0924	0.0928	mg/L	1	0.100	<0.000294	92	0	80 - 120	20
Xylene	0.281	0.274	mg/L	1	0.300	<0.000348	94	2	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0865	0.0845	mg/L	1	0.100	86	84	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0951	0.0907	mg/L	1	0.100	95	91	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28073
 Prep Batch: 24589

Date Analyzed: 2006-07-17
 QC Preparation: 2006-07-17

Analyzed By: MT
 Prepared By: MT

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	0.848	0.850	mg/L	1	1.00	<0.0272	85	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0819	0.0768	mg/L	1	0.100	82	77	80 - 120
4-Bromofluorobenzene (4-BFB)	0.0906	0.0867	mg/L	1	0.100	91	87	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28094
Prep Batch: 24605

Date Analyzed: 2006-07-18
QC Preparation: 2006-07-17

Analyzed By: SP
Prepared By: SP

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	25.1	26.5	mg/L	1	25.0	<1.06	100	5	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	15.2	15.0	mg/L	1	15.0	101	100	50 - 150

Laboratory Control Spike (LCS-1)

QC Batch: 28178
Prep Batch: 24653

Date Analyzed: 2006-07-20
QC Preparation: 2006-07-19

Analyzed By: WB
Prepared By: WB

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.8	11.8	mg/L	1	12.5	<0.0181	94	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28073
Prep Batch: 24589

Date Analyzed: 2006-07-17
QC Preparation: 2006-07-17

Analyzed By: MT
Prepared By: MT

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	0.845	NA	mg/L	1	1.00	<0.0272	84	200	51.1 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

¹LCSD analyte out of range. LCS/LCSD has a RPD within limits. Therefore, LCS shows extraction occurred properly.

²RPD is out of range because a matrix spike duplicate was not prepared.

matrix spikes continued...

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	³	0.0798	NA	mg/L	1	0.1	80	0	52.3 - 137
4-Bromofluorobenzene (4-BFB)	⁴	0.0899	NA	mg/L	1	0.1	90	0	83.3 - 110

Matrix Spike (MS-1) Spiked Sample: 95374

QC Batch: 28094
Prep Batch: 24605

Date Analyzed: 2006-07-18
QC Preparation: 2006-07-17

Analyzed By: SP
Prepared By: SP

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	⁵	24.3	NA	mg/L	1	25.0	<1.06	97	200	71.1 - 99.1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	⁶	16.9	NA	mg/L	1	15	113	0	50 - 150

Matrix Spike (MS-1) Spiked Sample: 95745

QC Batch: 28178
Prep Batch: 24653

Date Analyzed: 2006-07-20
QC Preparation: 2006-07-19

Analyzed By: WB
Prepared By: WB

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride		995	1000	mg/L	50	12.5	338	105	1	25.4 - 171	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28072

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0928	93	85 - 115	2006-07-17
Toluene		mg/L	0.100	0.0915	92	85 - 115	2006-07-17
Ethylbenzene		mg/L	0.100	0.0936	94	85 - 115	2006-07-17
Xylene		mg/L	0.300	0.284	95	85 - 115	2006-07-17

³RPD is out of range because a matrix spike duplicate was not prepared.

⁴RPD is out of range because a matrix spike duplicate was not prepared.

⁵RPD is out of range because a matrix spike duplicate was not prepared.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

Standard (CCV-1)

QC Batch: 28072

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0890	89	85 - 115	2006-07-17
Toluene		mg/L	0.100	0.0881	88	85 - 115	2006-07-17
Ethylbenzene		mg/L	0.100	0.0861	86	85 - 115	2006-07-17
Xylene		mg/L	0.300	0.258	86	85 - 115	2006-07-17

Standard (ICV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.895	90	85 - 115	2006-07-17

Standard (CCV-1)

QC Batch: 28073

Date Analyzed: 2006-07-17

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.852	85	85 - 115	2006-07-17

Standard (CCV-1)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	258	103	75 - 125	2006-07-18

Standard (CCV-2)

QC Batch: 28094

Date Analyzed: 2006-07-18

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	254	102	75 - 125	2006-07-18

Standard (ICV-1)

QC Batch: 28178

Date Analyzed: 2006-07-20

Analyzed By: WB

Report Date: July 21, 2006
Lovington Water

Work Order: 6071726
Lovington Water Field

Page Number: 10 of 11
Lovington, NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2006-07-20

Standard (CCV-1)

QC Batch: 28178

Date Analyzed: 2006-07-20

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	91	90 - 110	2006-07-20

Log-In-Review 7/21/06 10:55
Carrier # 6071726

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.
ORIGINAL COPY

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 006 6071726

TraceAnalysis, Inc.
155 McCurtcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4344
1 (888) 588-3443

ANALYSIS REQUEST
(Circle or Specify Method No.)

Company Name: City of Lovington
Address: PO Box 1268 Lovington NM 88260
Contact Person: Kurt Porter
Phone #: 505 396-2884
Fax #: 505 396-6328
E-mail:

Project Name: Lovington Water Field
Project Location (including state): Lovington NM
Project #:
Invoice to: Same
(If different from above)
Project #:
Project Location (including state): Lovington NM

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX					PRESERVATIVE METHOD					DATE	TIME	SAMPLING
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE			
95502	LWF#21	5		✓				✓				✓		7/15	12:00 PM	
93	LWF#17	5		✓				✓				✓		7/15	11:15 AM	
94	LWF#16	5		✓				✓				✓		7/15	12:30 PM	

REMARKS: Fax Results

LAB USE ONLY
Intact Y/N
Headspace Y/N
Temp 40

Relinquished by: Kurt Porter Date: 7/21/06 Time: 7:55 AM
Relinquished by: Date: Time:
Relinquished by: Date: Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Kurt Porter	7/21/06	7:55 AM			

Turn Around Time if different from standard

Moisture Content
BOD, TSS, pH
Pesticides 8081A / 608
PCB's 8082 / 608
GC/MS Semi Vol. 8270C / 625
GC/MS Vol. 8260B / 624
RCI
TCLP Pesticides
TCLP Semi Volatiles
TCLP Volatiles
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/200.7
PAH 8270C / 625
TPH 8015 GRO / DRO / TVHC
TPH 418.1 / TX1005 / TX1005 EXHC35
BTEX 8021B / 602 / 8260B / 624
MTBE 8021B / 602 / 8260B / 624

Check if Special Handling
☐ Dry Weight Basis Required
☐ TRRP Report Required



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

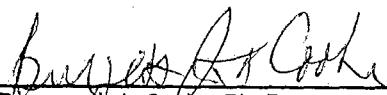
ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88242
FAX TO: (505) 392-6949

Receiving Date: 06/16/06
Reporting Date: 06/17/06
Project Owner: CITY OF LOVINGTON
Project Name: LOVINGTON WATER FIELD
Project Location: LOVINGTON, NM

Sampling Date: 06/16/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/L)	DRO (C ₁₀ -C ₂₈) (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		06/16/06	06/16/06	06/16/06	06/16/06	06/16/06	06/16/06
H11237-1	LWF-21-1	<1.00	<1.00	<0.002	<0.002	<0.002	<0.006
H11237-2	LWF-17-1	1.40	<1.00	0.007	0.243	0.126	0.432
H11237-3	LWF-B1	<1.00	<1.00	<0.002	<0.002	<0.002	<0.006
Quality Control		28.5	30.7	0.091	0.096	0.097	0.299
True Value QC		30.0	30.0	0.100	0.100	0.100	0.300
% Recovery		95.1	102	91.1	95.9	97.3	99.6
Relative Percent Difference		1.8	0.4	4.7	3.9	2.0	2.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.


Burgess J. A. Cooke, Ph. D.

6/17/06
Date

H11237A

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS

HOBBS, NM 88242

FAX TO: (505) 392-6949

Receiving Date: 06/16/06

Reporting Date: 06/26/06

Project Owner: CITY OF LOVINGTON

Project Name: LOVINGTON WATER FIELD

Project Location: LOVINGTON, NM

Sample ID: LWF-21-1

Lab Number: H11237-1

Analysis Date: 06/22/06

Sampling Date: 06/16/06

Sample Type: GROUNDWATER

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: BC

POLYNUCLEAR AROMATIC

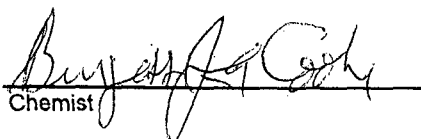
HYDROCARBON - 8270 (ppm)

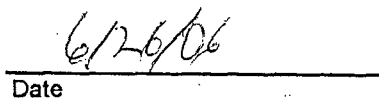
	Sample Result	Method Blank	True Value		
			QC	%Recov.	QC
1 Naphthalene	<0.002	<0.002	0.034	68	0.050
2 Acenaphthylene	<0.002	<0.002	0.042	84	0.050
3 Acenaphthene	<0.002	<0.002	0.043	86	0.050
4 Fluorene	<0.002	<0.002	0.043	86	0.050
5 Phenanthrene	<0.002	<0.002	0.047	94	0.050
6 Anthracene	<0.002	<0.002	0.044	88	0.050
7 Fluoranthene	<0.002	<0.002	0.044	88	0.050
8 Pyrene	<0.002	<0.002	0.043	86	0.050
9 Benzo(a)anthracene	<0.002	<0.002	0.046	92	0.050
10 Chrysene	<0.002	<0.002	0.044	88	0.050
11 Benzo(b)fluoranthene	<0.002	<0.002	0.035	70	0.050
12 Benzo(k)fluoranthene	<0.002	<0.002	0.039	78	0.050
13 Benzo(a)pyrene	<0.002	<0.002	0.044	88	0.050
14 Indeno(1,2,3-cd)pyrene	<0.002	<0.002	0.045	90	0.050
15 Dibenzo(a,h)anthracene	<0.002	<0.002	0.041	82	0.050
16 benzo(g,h,i)perylene	<0.002	<0.002	0.042	84	0.050

% Recovery

17 Nitrobenzene-d5	68
18 2-Fluorobiphenyl	68
19 Terphenyl-d14	120

METHODS: EPA SW-846 8270


Chemist


Date

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS

Receiving Date: 06/16/06
Reporting Date: 06/26/06
Project Owner: CITY OF LOVINGTON
Project Name: LOVINGTON WATER FIELD
Project Location: LOVINGTON, NM
Sample ID: LWF-17-1
Lab Number: H11237-2

HOBBS, NM 88242
FAX TO: (505) 392-6949

Analysis Date: 06/22/06
Sampling Date: 06/16/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

POLYNUCLEAR AROMATIC HYDROCARBON - 8270 (ppm)

	Sample Result	Method Blank	True Value		
			QC	%Recov.	QC
1 Naphthalene	0.080	<0.002	0.034	68	0.050
2 Acenaphthylene	<0.002	<0.002	0.042	84	0.050
3 Acenaphthene	<0.002	<0.002	0.043	86	0.050
4 Fluorene	<0.002	<0.002	0.043	86	0.050
5 Phenanthrene	<0.002	<0.002	0.047	94	0.050
6 Anthracene	<0.002	<0.002	0.044	88	0.050
7 Fluoranthene	<0.002	<0.002	0.044	88	0.050
8 Pyrene	<0.002	<0.002	0.043	86	0.050
9 Benzo(a)anthracene	<0.002	<0.002	0.046	92	0.050
10 Chrysene	<0.002	<0.002	0.044	88	0.050
11 Benzo(b)fluoranthene	<0.002	<0.002	0.035	70	0.050
12 Benzo(k)fluoranthene	<0.002	<0.002	0.039	78	0.050
13 Benzo(a)pyrene	<0.002	<0.002	0.044	88	0.050
14 Indeno(1,2,3-cd)pyrene	<0.002	<0.002	0.045	90	0.050
15 Dibenzo(a,h)anthracene	<0.002	<0.002	0.041	82	0.050
16 benzo(g,h,i)perylene	<0.002	<0.002	0.042	84	0.050

% Recovery

17 Nitrobenzene-d5	76
18 2-Fluorobiphenyl	81
19 Terphenyl-d14	106

METHODS: EPA SW-846 8270

Chemist

Date

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS

Receiving Date: 06/16/06
Reporting Date: 06/26/06
Project Owner: CITY OF LOVINGTON
Project Name: LOVINGTON WATER FIELD
Project Location: LOVINGTON, NM
Sample ID: LWF-B1
Lab Number: H11237-3

HOBBS, NM 88242
FAX TO: (505) 392-6949

Analysis Date: 06/22/06
Sampling Date: 06/16/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

POLYNUCLEAR AROMATIC HYDROCARBON - 8270 (ppm)

	Sample Result	Method Blank	True Value		
			QC	%Recov.	QC
1 Naphthalene	<0.002	<0.002	0.034	68	0.050
2 Acenaphthylene	<0.002	<0.002	0.042	84	0.050
3 Acenaphthene	<0.002	<0.002	0.043	86	0.050
4 Fluorene	<0.002	<0.002	0.043	86	0.050
5 Phenanthrene	<0.002	<0.002	0.047	94	0.050
6 Anthracene	<0.002	<0.002	0.044	88	0.050
7 Fluoranthene	<0.002	<0.002	0.044	88	0.050
8 Pyrene	<0.002	<0.002	0.043	86	0.050
9 Benzo(a)anthracene	<0.002	<0.002	0.046	92	0.050
10 Chrysene	<0.002	<0.002	0.044	88	0.050
11 Benzo(b)fluoranthene	<0.002	<0.002	0.035	70	0.050
12 Benzo(k)fluoranthene	<0.002	<0.002	0.039	78	0.050
13 Benzo(a)pyrene	<0.002	<0.002	0.044	88	0.050
14 Indeno(1,2,3-cd)pyrene	<0.002	<0.002	0.045	90	0.050
15 Dibenzo(a,h)anthracene	<0.002	<0.002	0.041	82	0.050
16 benzo(g,h,i)perylene	<0.002	<0.002	0.042	84	0.050

% Recovery

17 Nitrobenzene-d5	68
18 2-Fluorobiphenyl	71
19 Terphenyl-d14	103

METHODS: EPA SW-846 8270

Chemist

Date

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Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: June 26, 2006

Work Order: 6061909



Project Location: S. Lovington
Project Name: City of Lovington
Project Number: City of Lovington

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
93154	Well #21	water	2006-06-16	09:23	2006-06-17
93155	Well #17	water	2006-06-16	09:50	2006-06-17
93156	Booster #1	water	2006-06-16	10:05	2006-06-17

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Report Date: June 26, 2006
City of Lovington

Work Order: 6061909
City of Lovington

Page Number: 2 of 11
S. Lovington

Analytical Report

Sample: 93154 - Well #21

Analysis: BTEX, N-Hexane, Naphthalene by 8260
QC Batch: 27626
Prep Batch: 24224

Analytical Method: S 8260B
Date Analyzed: 2006-06-20
Sample Preparation: 2006-06-20

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
Naphthalene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.9	µg/L	1	50.0	102	70 - 130
Toluene-d8		49.7	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		48.7	µg/L	1	50.0	97	70 - 130

Sample: 93154 - Well #21

Analysis: PAH
QC Batch: 27571
Prep Batch: 24077

Analytical Method: S 8270C
Date Analyzed: 2006-06-22
Sample Preparation: 2006-06-19

Prep Method: S 3510C
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000400	mg/L	1	0.000400
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000400	mg/L	1	0.000400
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0543	mg/L	1	0.0800	68	37.4 - 123

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sample continued...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorobiphenyl		0.0661	mg/L	1	0.0800	83	34.3 - 130
Terphenyl-d14		0.0562	mg/L	1	0.0800	70	10 - 252

Sample: 93154 - Well #21

Analysis: TPH 418.1
QC Batch: 27620
Prep Batch: 24219

Analytical Method: E 418.1
Date Analyzed: 2006-06-26
Sample Preparation: 2006-06-23

Prep Method: N/A
Analyzed By: JL
Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<0.500	mg/L	1	0.500

Sample: 93155 - Well #17

Analysis: BTEX, N-Hexane, Naphthalene by 8260
QC Batch: 27626
Prep Batch: 24224

Analytical Method: S 8260B
Date Analyzed: 2006-06-20
Sample Preparation: 2006-06-20

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
Naphthalene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.1	µg/L	1	50.0	102	70 - 130
Toluene-d8		49.6	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		48.6	µg/L	1	50.0	97	70 - 130

Sample: 93155 - Well #17

Analysis: PAH
QC Batch: 27571
Prep Batch: 24077

Analytical Method: S 8270C
Date Analyzed: 2006-06-22
Sample Preparation: 2006-06-19

Prep Method: S 3510C
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200

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sample 93155 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Phenanthrene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000400	mg/L	1	0.000400
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000400	mg/L	1	0.000400
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0550	mg/L	1	0.0800	69	37.4 - 123
2-Fluorobiphenyl		0.0693	mg/L	1	0.0800	87	34.3 - 130
Terphenyl-d14		0.0688	mg/L	1	0.0800	86	10 - 252

Sample: 93155 - Well #17

Analysis: TPH 418.1
QC Batch: 27620
Prep Batch: 24219

Analytical Method: E 418.1
Date Analyzed: 2006-06-26
Sample Preparation: 2006-06-23

Prep Method: N/A
Analyzed By: JL
Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<0.500	mg/L	1	0.500

Sample: 93156 - Booster #1

Analysis: BTEX, N-Hexane, Naphthalene by 8260
QC Batch: 27626
Prep Batch: 24224

Analytical Method: S 8260B
Date Analyzed: 2006-06-20
Sample Preparation: 2006-06-20

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
Naphthalene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.2	µg/L	1	50.0	102	70 - 130

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Toluene-d8		49.1	µg/L	1	50.0	98	70 - 130
4-Bromofluorobenzene (4-BFB)		48.1	µg/L	1	50.0	96	70 - 130

Sample: 93156 - Booster #1

Analysis: PAH
QC Batch: 27571
Prep Batch: 24077

Analytical Method: S 8270C
Date Analyzed: 2006-06-22
Sample Preparation: 2006-06-19

Prep Method: S 3510C
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000400	mg/L	1	0.000400
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000400	mg/L	1	0.000400
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0579	mg/L	1	0.0800	72	37.4 - 123
2-Fluorobiphenyl		0.0711	mg/L	1	0.0800	89	34.3 - 130
Terphenyl-d14		0.0428	mg/L	1	0.0800	54	10 - 252

Sample: 93156 - Booster #1

Analysis: TPH 418.1
QC Batch: 27620
Prep Batch: 24219

Analytical Method: E 418.1
Date Analyzed: 2006-06-26
Sample Preparation: 2006-06-23

Prep Method: N/A
Analyzed By: JL
Prepared By: JL

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		<0.500	mg/L	1	0.500

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Method Blank (1) QC Batch: 27571

QC Batch: 27571
Prep Batch: 24077

Date Analyzed: 2006-06-22
QC Preparation: 2006-06-19

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000853	mg/L	0.0002
Acenaphthylene		<0.0000768	mg/L	0.0002
Acenaphthene		<0.000103	mg/L	0.0002
Dibenzofuran		<0.000200	mg/L	0.0002
Fluorene		<0.0000861	mg/L	0.0002
Phenanthrene		<0.0000884	mg/L	0.0002
Anthracene		<0.000170	mg/L	0.0002
Fluoranthene		<0.0000969	mg/L	0.0002
Pyrene		<0.0000855	mg/L	0.0002
Benzo(a)anthracene		<0.0000703	mg/L	0.0002
Chrysene		<0.000113	mg/L	0.0002
Benzo(b)fluoranthene		<0.000134	mg/L	0.0002
Benzo(k)fluoranthene		<0.000227	mg/L	0.0004
Benzo(a)pyrene		<0.000200	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.000253	mg/L	0.0004
Dibenzo(a,h)anthracene		<0.000180	mg/L	0.0002
Benzo(g,h,i)perylene		<0.000158	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0579	mg/L	1	0.0800	72	10 - 146
2-Fluorobiphenyl		0.0661	mg/L	1	0.0800	83	10 - 141
Terphenyl-d14		0.0716	mg/L	1	0.0800	90	10 - 266

Method Blank (1) QC Batch: 27620

QC Batch: 27620
Prep Batch: 24219

Date Analyzed: 2006-06-26
QC Preparation: 2006-06-23

Analyzed By: JL
Prepared By: JL

Parameter	Flag	MDL Result	Units	RL
TRPHC		<0.185	mg/L	0.5

Method Blank (1) QC Batch: 27626

QC Batch: 27626
Prep Batch: 24224

Date Analyzed: 2006-06-20
QC Preparation: 2006-06-20

Analyzed By: JG
Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
1,1-Dichloroethene		<0.136	µg/L	1
Benzene		<0.146	µg/L	1
Trichloroethene (TCE)		<0.117	µg/L	1

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method blank continued...

Parameter	Flag	MDL Result	Units	RL
Toluene		0.200	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
Ethylbenzene		0.130	µg/L	1
m,p-Xylene		0.280	µg/L	1
o-Xylene		0.120	µg/L	1
Naphthalene		0.840	µg/L	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.8	µg/L	1	50.0	106	70 - 130
Toluene-d8		49.8	µg/L	1	50.0	100	70 - 130
4-Bromofluorobenzene (4-BFB)		48.3	µg/L	1	50.0	97	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 27571
Prep Batch: 24077

Date Analyzed: 2006-06-22
QC Preparation: 2006-06-19

Analyzed By: AG
Prepared By: AG

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Naphthalene	0.0695	0.0648	mg/L	1	0.0800	<0.0000853	87	7	10 - 141	20
Acenaphthylene	0.0845	0.0781	mg/L	1	0.0800	<0.0000768	106	8	10 - 152	20
Acenaphthene	0.0818	0.0757	mg/L	1	0.0800	<0.000103	102	8	10 - 151	20
Dibenzofuran	0.0731	0.0677	mg/L	1	0.0800	<0.000200	91	8	10 - 148	20
Fluorene	0.0712	0.0664	mg/L	1	0.0800	<0.0000861	89	7	10 - 172	20
Phenanthrene	0.0786	0.0741	mg/L	1	0.0800	<0.0000884	98	6	19.6 - 172	20
Anthracene	0.0844	0.0782	mg/L	1	0.0800	<0.000170	106	8	22.5 - 172	20
Fluoranthene	0.0874	0.0828	mg/L	1	0.0800	<0.0000969	109	5	17.3 - 187	20
Pyrene	0.0805	0.0762	mg/L	1	0.0800	<0.0000855	101	6	14.9 - 199	20
Benzo(a)anthracene	0.0918	0.0860	mg/L	1	0.0800	<0.0000703	115	6	19.4 - 185	20
Chrysene	0.0834	0.0771	mg/L	1	0.0800	<0.000113	104	8	18.4 - 188	20
Benzo(b)fluoranthene	0.0932	0.0798	mg/L	1	0.0800	<0.000134	116	16	10 - 193	20
Benzo(k)fluoranthene	0.0750	0.100	mg/L	1	0.0800	<0.000227	94	29	27.8 - 196	20
Benzo(a)pyrene	0.0896	0.0837	mg/L	1	0.0800	<0.000200	112	7	12.4 - 205	20
Indeno(1,2,3-cd)pyrene	0.0729	0.0680	mg/L	1	0.0800	<0.000253	91	7	10 - 198	20
Dibenzo(a,h)anthracene	0.0617	0.0575	mg/L	1	0.0800	<0.000180	77	7	10 - 172	20
Benzo(g,h,i)perylene	0.0680	0.0627	mg/L	1	0.0800	<0.000158	85	8	10 - 186	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	0.0705	0.0656	mg/L	1	0.0800	88	82	10 - 165
2-Fluorobiphenyl	0.0936	0.0861	mg/L	1	0.0800	117	108	10 - 157
Terphenyl-d14	0.0614	0.0562	mg/L	1	0.0800	77	70	10 - 220

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Laboratory Control Spike (LCS-1)

QC Batch: 27620
Prep Batch: 24219

Date Analyzed: 2006-06-26
QC Preparation: 2006-06-23

Analyzed By: JL
Prepared By: JL

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	7.81	8.21	mg/L	1	8.50	<0.185	92	5	80.8 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 27626
Prep Batch: 24224

Date Analyzed: 2006-06-20
QC Preparation: 2006-06-20

Analyzed By: JG
Prepared By: JG

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	49.4	47.6	µg/L	1	50.0	<0.136	99	4	70 - 130	20
Benzene	48.7	47.7	µg/L	1	50.0	<0.146	97	2	70 - 130	20
Trichloroethene (TCE)	49.2	48.3	µg/L	1	50.0	<0.117	98	2	70 - 130	20
Toluene	46.8	45.8	µg/L	1	50.0	<0.0600	94	2	70 - 130	20
Chlorobenzene	49.6	48.1	µg/L	1	50.0	<0.0540	99	3	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	52.1	51.7	µg/L	1	50.0	104	103	70 - 130
Toluene-d8	50.2	50.0	µg/L	1	50.0	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	50.5	50.6	µg/L	1	50.0	101	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 93154

QC Batch: 27620
Prep Batch: 24219

Date Analyzed: 2006-06-26
QC Preparation: 2006-06-23

Analyzed By: JL
Prepared By: JL

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
TRPHC	9.12	NA	mg/L	1	8.50	<0.185	107	200	0 - 208	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 27571

Date Analyzed: 2006-06-22

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	60.1	100	80 - 120	2006-06-22

continued...

¹RPD is out of range because a matrix spike duplicate was not prepared.

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standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Acenaphthylene		mg/L	60.0	59.4	99	80 - 120	2006-06-22
Acenaphthene		mg/L	60.0	58.8	98	80 - 120	2006-06-22
Dibenzofuran		mg/L	60.0	63.0	105	80 - 120	2006-06-22
Fluorene	2	mg/L	60.0	73.8	123	80 - 120	2006-06-22
Phenanthrene		mg/L	60.0	60.1	100	80 - 120	2006-06-22
Anthracene		mg/L	60.0	61.8	103	80 - 120	2006-06-22
Fluoranthene		mg/L	60.0	64.5	108	80 - 120	2006-06-22
Pyrene		mg/L	60.0	64.6	108	80 - 120	2006-06-22
Benzo(a)anthracene		mg/L	60.0	61.7	103	80 - 120	2006-06-22
Chrysene		mg/L	60.0	63.4	106	80 - 120	2006-06-22
Benzo(b)fluoranthene		mg/L	60.0	62.1	104	80 - 120	2006-06-22
Benzo(k)fluoranthene		mg/L	60.0	60.1	100	80 - 120	2006-06-22
Benzo(a)pyrene		mg/L	60.0	63.3	106	80 - 120	2006-06-22
Indeno(1,2,3-cd)pyrene		mg/L	60.0	58.9	98	80 - 120	2006-06-22
Dibenzo(a,h)anthracene		mg/L	60.0	60.4	101	80 - 120	2006-06-22
Benzo(g,h,i)perylene		mg/L	60.0	53.9	90	80 - 120	2006-06-22

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		60.7	mg/L	1	60.0	101	80 - 120
2-Fluorobiphenyl		68.4	mg/L	1	60.0	114	80 - 120
Terphenyl-d14		64.7	mg/L	1	60.0	108	80 - 120

Standard (ICV-1)

QC Batch: 27620

Date Analyzed: 2006-06-26

Analyzed By: JL

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/L	100	114	114	80 - 120	2006-06-26

Standard (CCV-1)

QC Batch: 27620

Date Analyzed: 2006-06-26

Analyzed By: JL

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/L	100	91.0	91	80 - 120	2006-06-26

Standard (CCV-1)

QC Batch: 27626

Date Analyzed: 2006-06-20

Analyzed By: JG

²Fluorene is outside of control limits on CCV(ICV). CCV(ICV) component average is 103.8% which is within acceptable range. This is acceptable by Method 8000.

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	47.6	95	80 - 120	2006-06-20
1,1-Dichloroethene		µg/L	50.0	48.1	96	80 - 120	2006-06-20
Chloroform		µg/L	50.0	47.2	94	80 - 120	2006-06-20
1,2-Dichloropropane		µg/L	50.0	47.3	95	80 - 120	2006-06-20
Toluene		µg/L	50.0	44.7	89	80 - 120	2006-06-20
Chlorobenzene		µg/L	50.0	47.3	95	80 - 120	2006-06-20
Ethylbenzene		µg/L	50.0	47.5	95	80 - 120	2006-06-20

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FAX NUMBER:

(505) 344-4413

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Thank you.

COMMENTS:

PLI 4002191 was unable to download but
it was clean.

If you have any further questions or
requests please give us a call.

Thanks



Safe Drinking Water Program Laboratory Reporting Form

Disinfection Byproducts Lab ID: 18130DW1 PWS ID: NM35218-13 Sample ID: 21613 017

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
2943	Bromodichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	

Safe Drinking Water Program Laboratory Reporting Form

Volatile Organics Lab ID: 18130DW1 PWS ID: NM35218-13 Sample ID: 21813-017

Contam ID	Coniam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
	4-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Dibromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Bromobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Bromochloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Bromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	n-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	sec-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	tert-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,3,5-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1,1,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Chloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Chloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	2-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	cis-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	trans-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,3-Dichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Hexachlorobutadiene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Dichlorodifluoromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1-Dichloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	n-Propylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	2,2-Dichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,2,3-Trichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1,2,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Isopropylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,2,4-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Fluorotrichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,2,3-Trichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,2,4-trichlorobenzene	ug/L	70	0.500	U	EPA524.2	0.500	06/22/06	
2378	cis-1,2-Dichloroethylene	ug/L	70	0.500	U	EPA524.2	0.500	06/22/06	
2380	Xylenes	ug/L	10,000	0.500	U	EPA524.2	0.500	06/22/06	
2955	Dichloromethane	ug/L	5	0.500	U	EPA524.2	0.500	06/22/06	
2964	o-dichlorobenzene	ug/L	600	0.500	U	EPA524.2	0.500	06/22/06	
2968	Para-dichlorobenzene	ug/L	75	0.500	U	EPA524.2	0.500	06/22/06	
2969	Vinyl Chloride	ug/L	1	0.500	U	EPA524.2	0.500	06/22/06	

Safe Drinking Water Program Laboratory Reporting Form

2977	1,1-Dichloroethylene	ug/L	7	0.500	U	EPA524.2	0.500	06/22/06
2978	trans-1,2-Dichloroethylene	ug/L	100	0.500	U	EPA524.2	0.500	06/22/06
2980	1,2-dichloroethane	ug/L	3(5)	0.500	U	EPA524.2	0.500	06/22/06
2981	1,1,1-trichloroethane	ug/L	200	0.500	U	EPA524.2	0.500	06/22/06
2982	Carbon tetrachloride	ug/L	3	0.500	U	EPA524.2	0.500	06/22/06
2983	1,2-dichloropropane	ug/L	5	0.500	U	EPA524.2	0.500	06/22/06
2984	Trichloroethylene	ug/L	3(5)	0.500	U	EPA524.2	0.500	06/22/06
2985	1,1,2-trichloroethane	ug/L	5	0.500	U	EPA524.2	0.500	06/22/06
2987	Tetrachloroethylene	ug/L	3(5)	0.500	U	EPA524.2	0.500	06/22/06
2989	Monochlorobenzene	ug/L	100	0.500	U	EPA524.2	0.500	06/22/06
2990	Benzene	ug/L	1	0.500	U	EPA524.2	0.500	06/22/06
2991	Toluene	ug/L	1,000	0.500	U	EPA524.2	0.500	06/22/06
2992	Ethylbenzene	ug/L	700	0.500	U	EPA524.2	0.500	06/22/06
2995	Styrene	ug/L	100	0.500	U	EPA524.2	0.500	06/22/06

Safe Drinking Water Program Laboratory Reporting Form

Disinfection Byproducts Lab ID: 18131DW1 PWS ID: NM35218-13 Sample ID: 21813 014

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
2943	Bromodichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	

Safe Drinking Water Program Laboratory Reporting Form

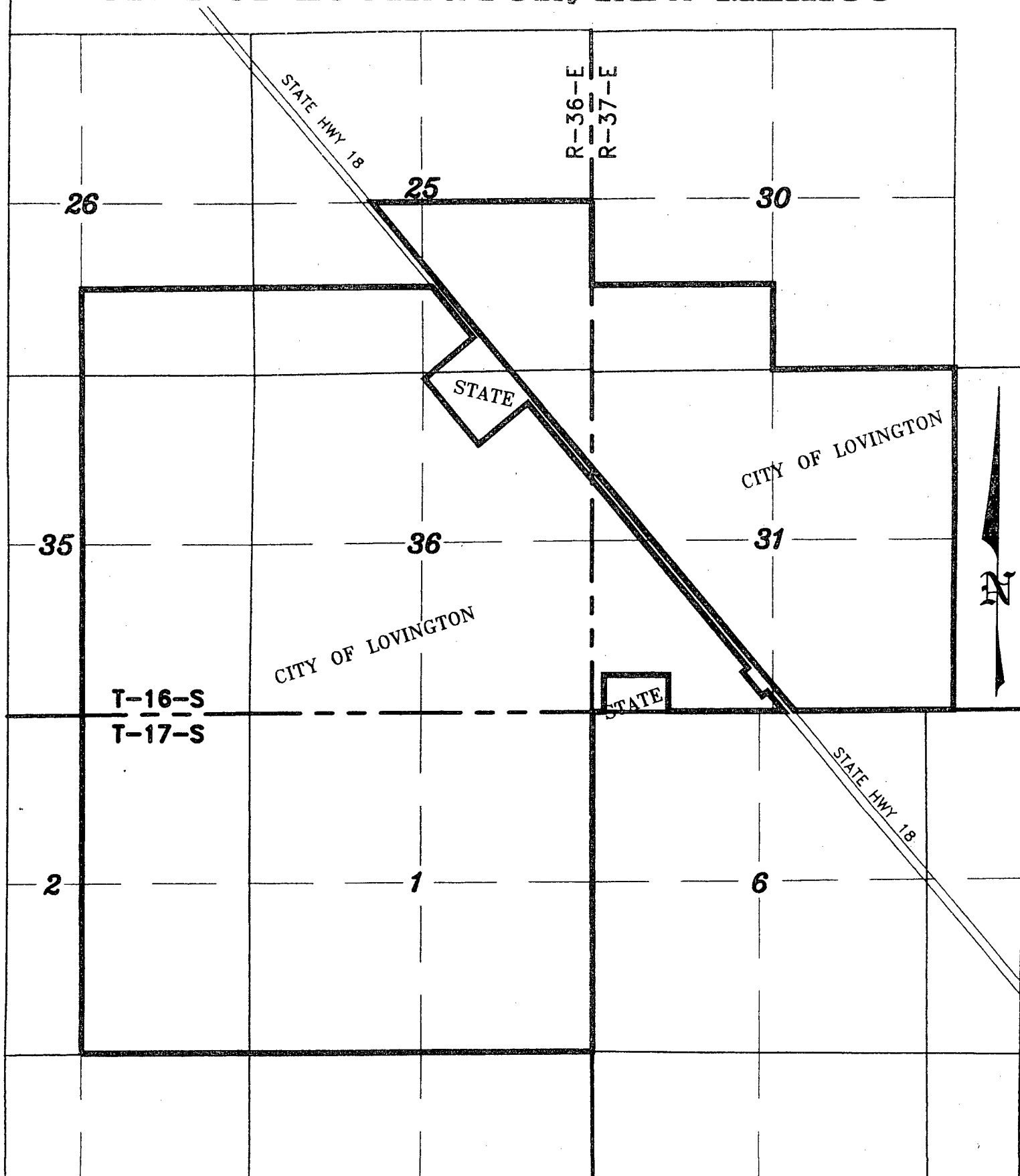
Volatile Organics Lab ID: 18131DW1 PWS ID: NM35218-13 Sample ID: 21813 014

Contam ID	Contam Name	Units	MCL	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time
	Bromobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Bromo-chloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Bromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	n-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	sec-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	tert-butylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	n-Propylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,3,5-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Chloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Chloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	2-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	4-Chlorotoluene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Dibromomethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	cis-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,3-Dichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1,2,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Dichlorodifluoromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1-Dichloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,2,3-Trichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,2,4-Trimethylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	trans-1,3-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1,1,2-Tetrachloroethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Hexachlorobutadiene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Isopropylbenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	2,2-Dichloropropane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,1-Dichloropropene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	Fluorotrichloromethane	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
	1,2,3-Trichlorobenzene	ug/L	N/A	0.500	U	EPA524.2	0.500	06/22/06	
2376	1,2,4-Trichlorobenzene	ug/L	70	0.500	U	EPA524.2	0.500	06/22/06	
2380	cis-1,2-Dichloroethylene	ug/L	70	0.500	U	EPA524.2	0.500	06/22/06	
2955	Xylenes	ug/L	10,000	0.500	U	EPA524.2	0.500	06/22/06	
2964	Dichloromethane	ug/L	5	0.500	U	EPA524.2	0.500	06/22/06	
2968	o-dichlorobenzene	ug/L	600	0.500	U	EPA524.2	0.500	06/22/06	
2969	Para-dichlorobenzene	ug/L	75	0.500	U	EPA524.2	0.500	06/22/06	
2976	Vinyl Chloride	ug/L	1	0.500	U	EPA524.2	0.500	06/22/06	

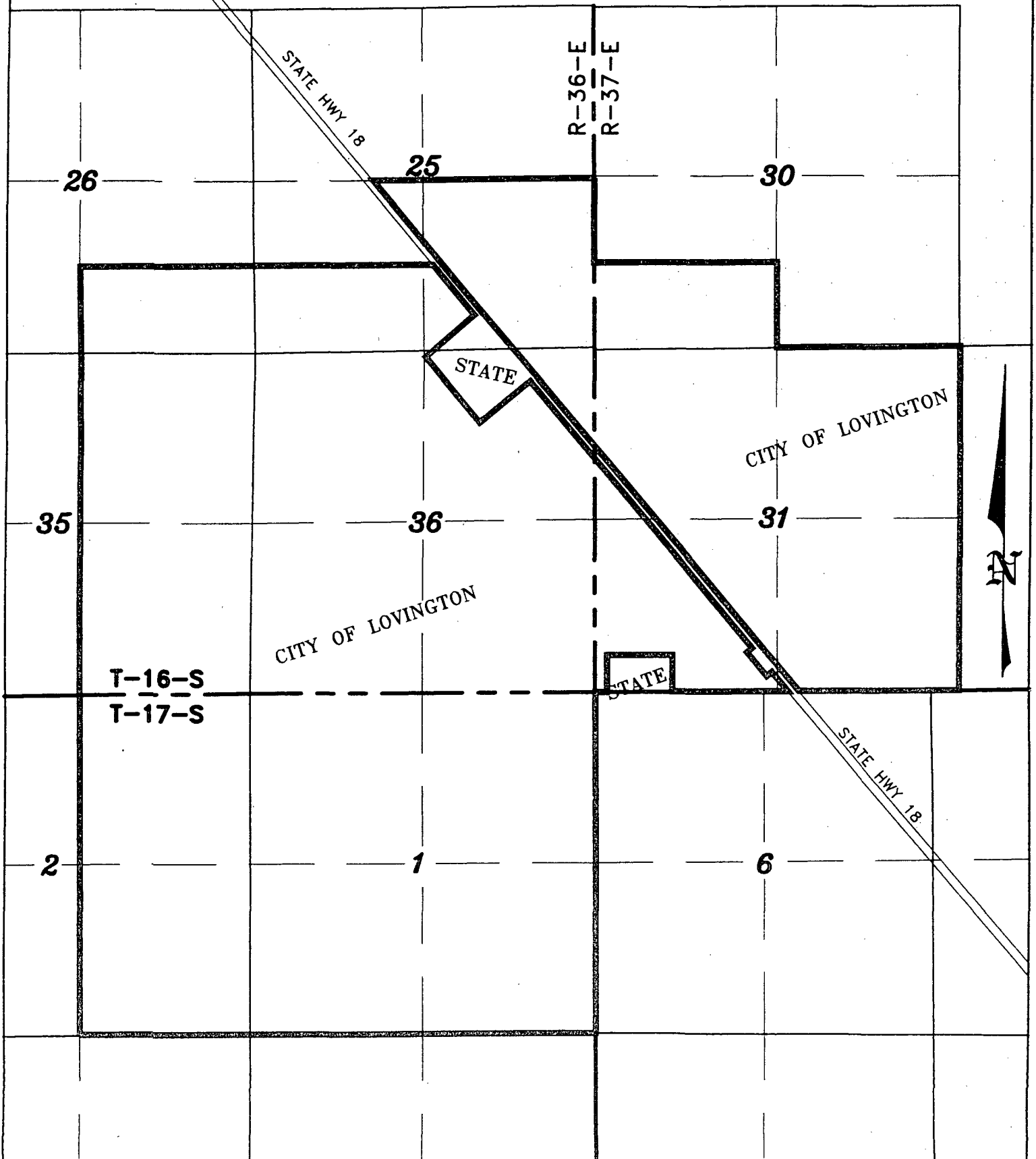
Safe Drinking Water Program Laboratory Reporting Form

2977	1,1-Dichloroethylene	ug/L	7	0.500	U	EPA524.2	0.500	06/22/06
2979	trans-1,2-Dichloroethylene	ug/L	100	0.500	U	EPA524.2	0.500	06/22/06
2980	1,2-dichloroethane	ug/L	3(5)	0.500	U	EPA524.2	0.500	06/22/06
2981	1,1,1-trichloroethane	ug/L	200	0.500	U	EPA524.2	0.500	06/22/06
2982	Carbon tetrachloride	ug/L	3	0.500	U	EPA524.2	0.500	06/22/06
2983	1,2-dichloropropane	ug/L	5	0.500	U	EPA524.2	0.500	06/22/06
2984	Trichloroethylene	ug/L	3(5)	0.500	U	EPA524.2	0.500	06/22/06
2985	1,1,2-trichloroethane	ug/L	3(5)	0.500	U	EPA524.2	0.500	06/22/06
2987	Tetrachloroethylene	ug/L	100	0.500	U	EPA524.2	0.500	06/22/06
2989	Monochlorobenzene	ug/L	1	0.500	U	EPA524.2	0.500	06/22/06
2990	Benzene	ug/L	1,000	0.500	U	EPA524.2	0.500	06/22/06
2991	Toluene	ug/L	700	0.500	U	EPA524.2	0.500	06/22/06
2992	Ethylbenzene	ug/L	100	0.500	U	EPA524.2	0.500	06/22/06
2996	Styrene	ug/L						

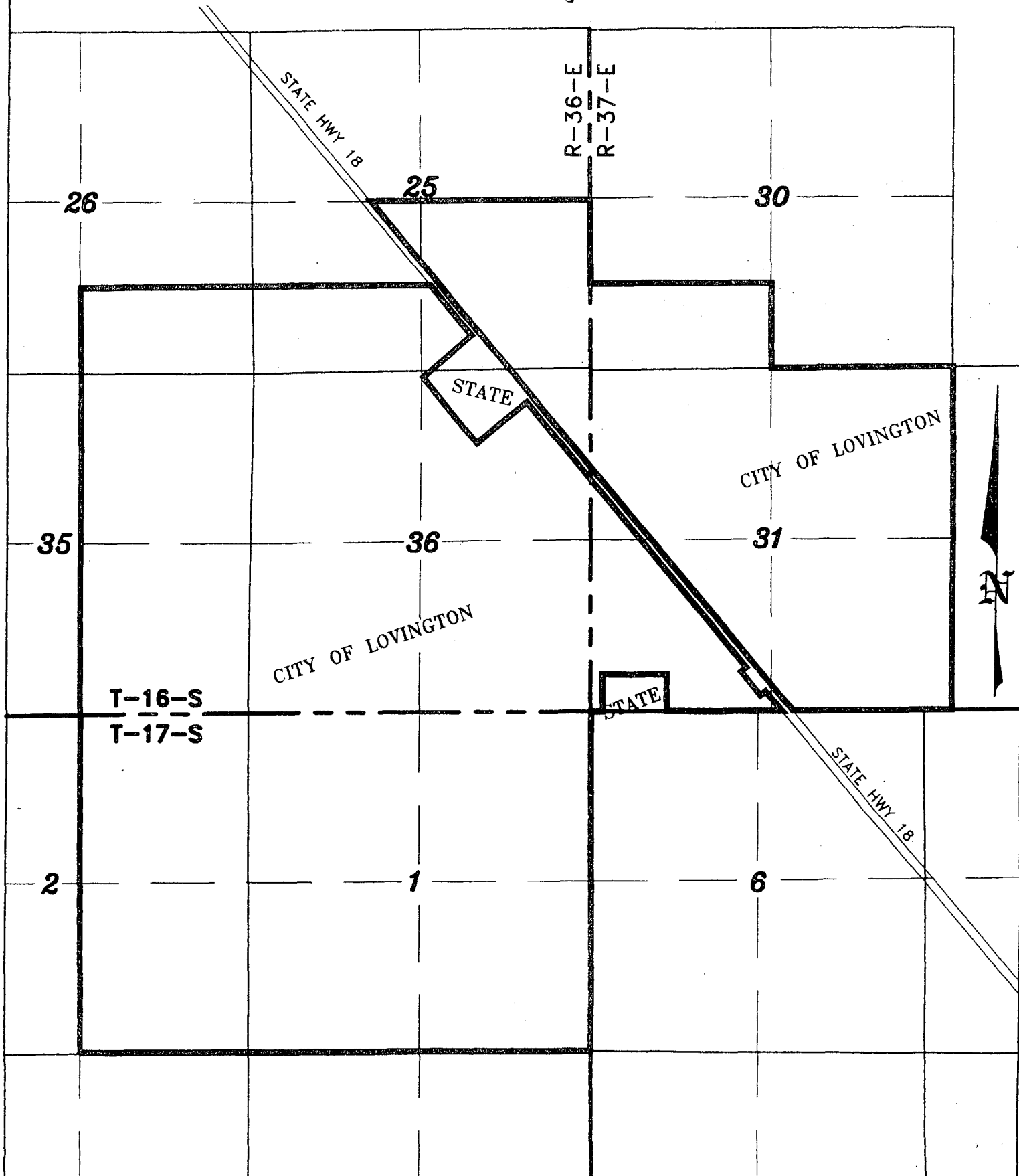
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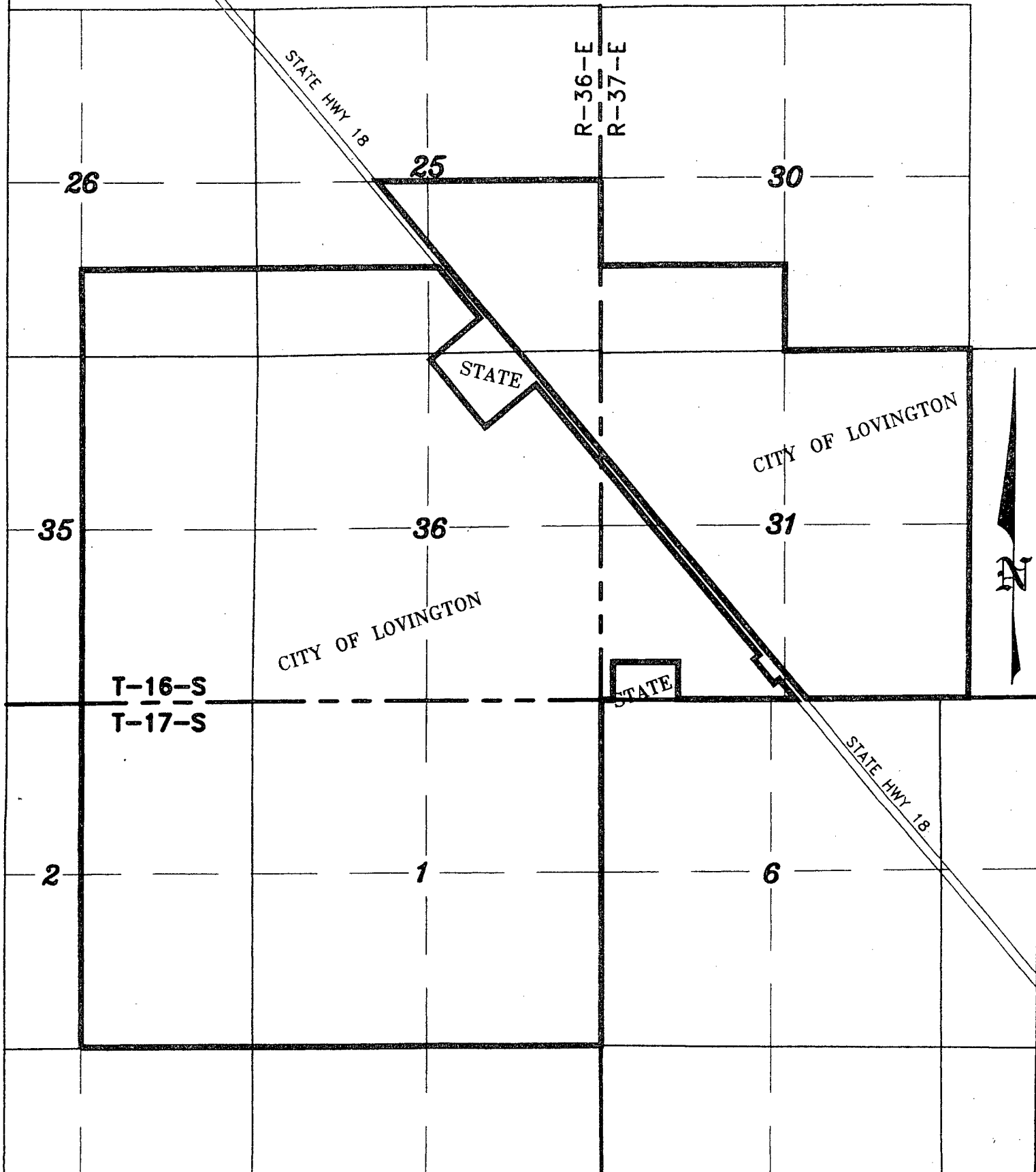
LOVINGTON INDUSTRIAL PARK CITY OF LOVINGTON, NEW MEXICO



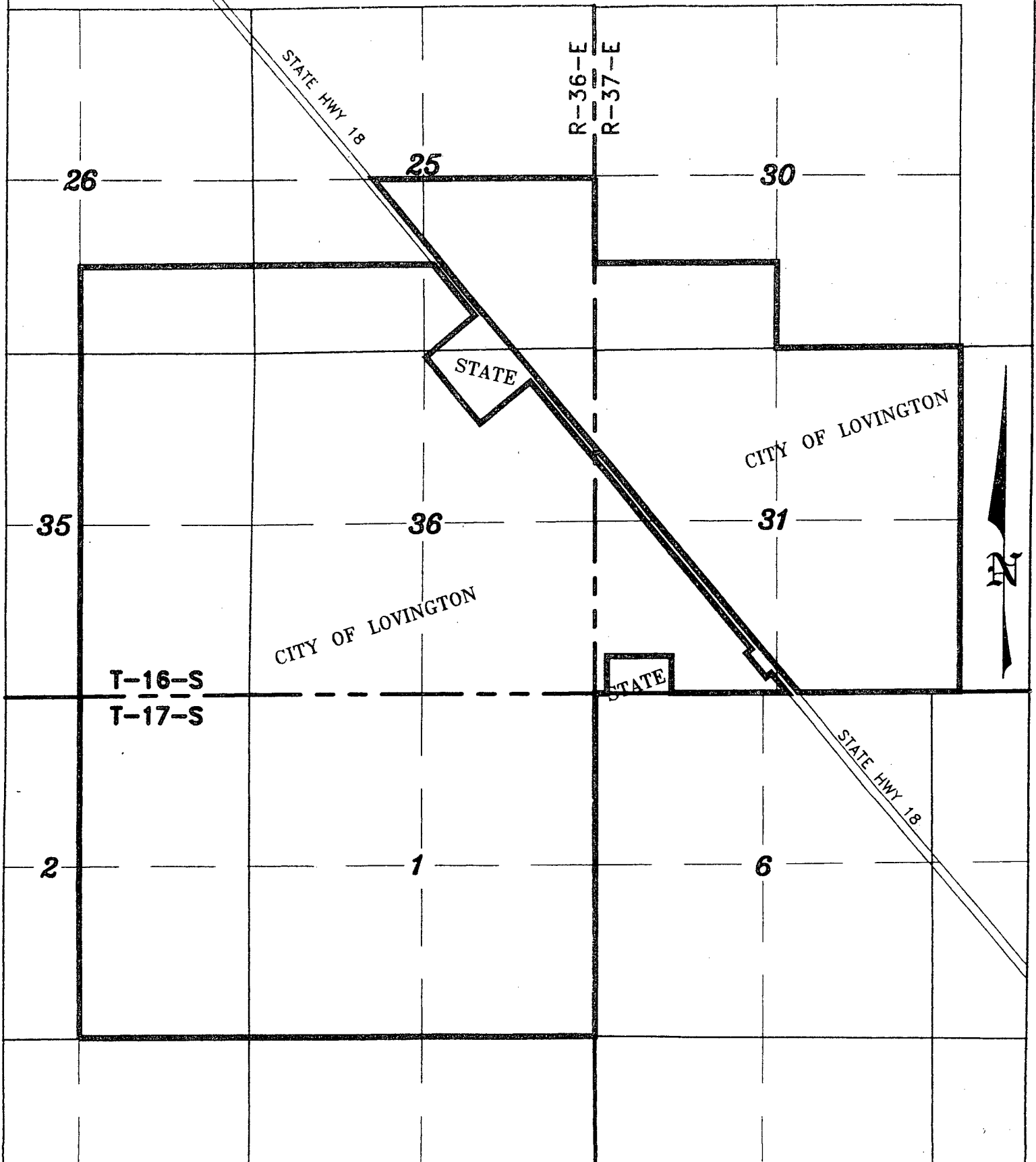
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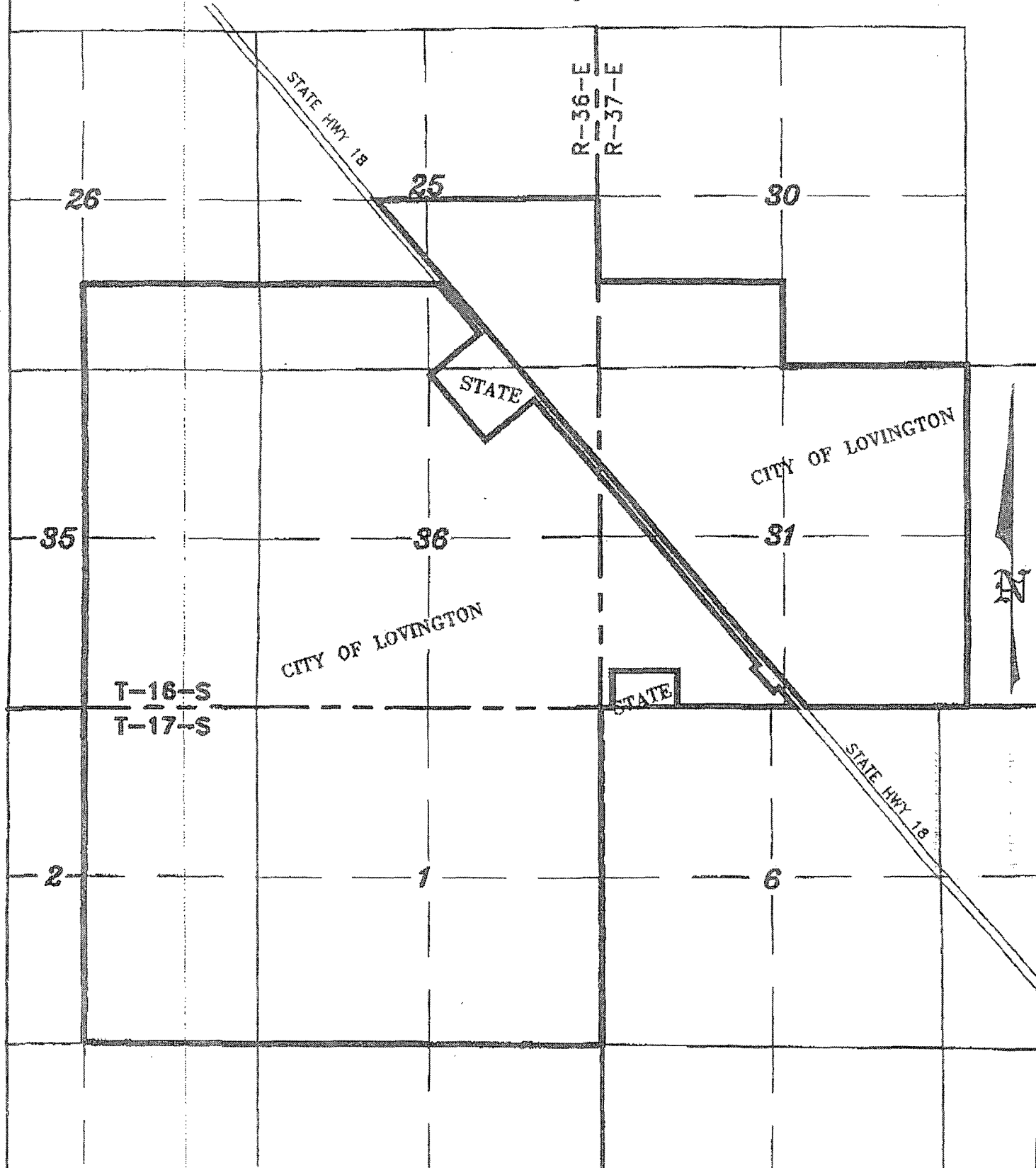
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LOVINGTON INDUSTRIAL PARK CITY OF LOVINGTON, NEW MEXICO

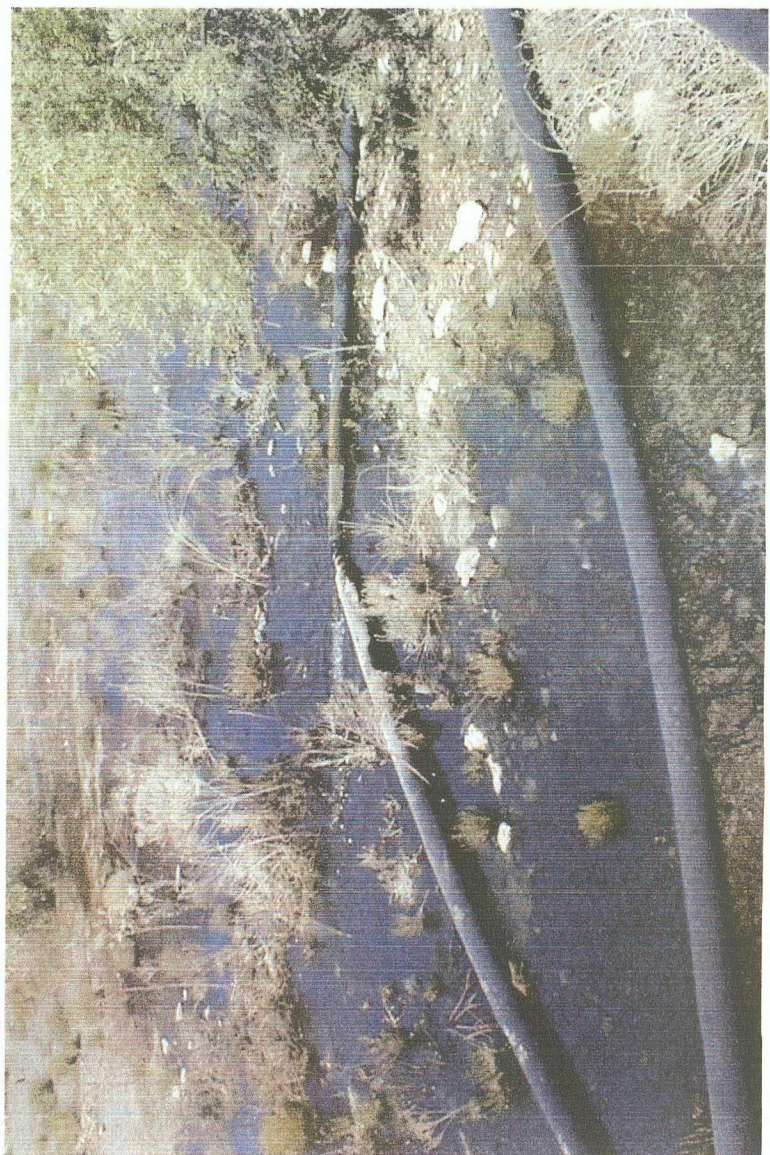


LOVINGTON INDUSTRIAL PARK CITY OF LOVINGTON, NEW MEXICO



BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO
JANUARY 2005
File Name: LOVINGTON IND PARK

2000 0 2000 4000 FEET
SCALE 1" = 1000'



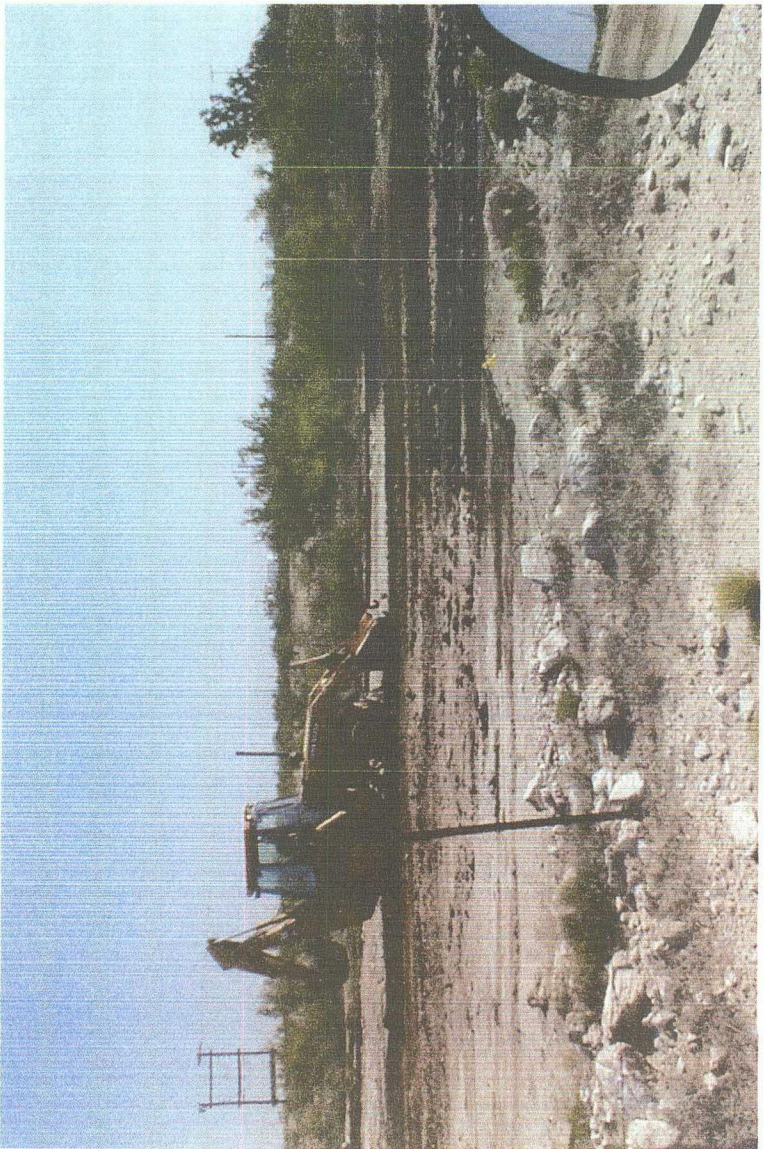




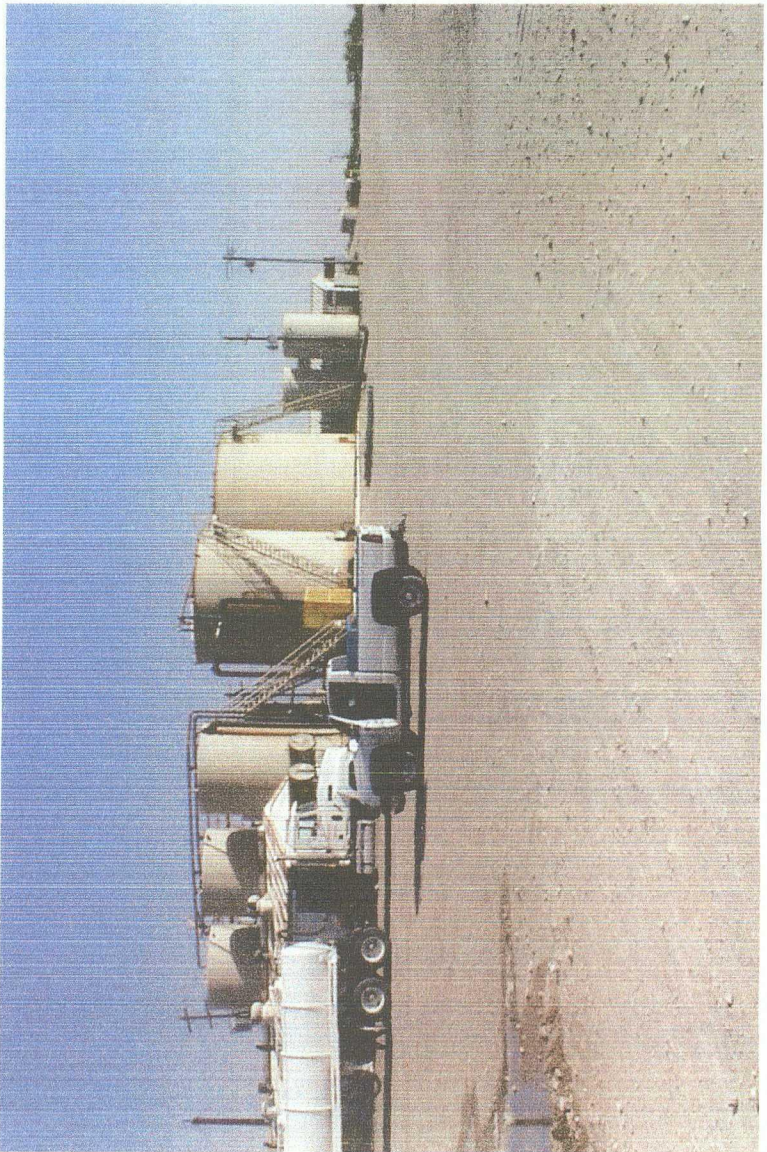


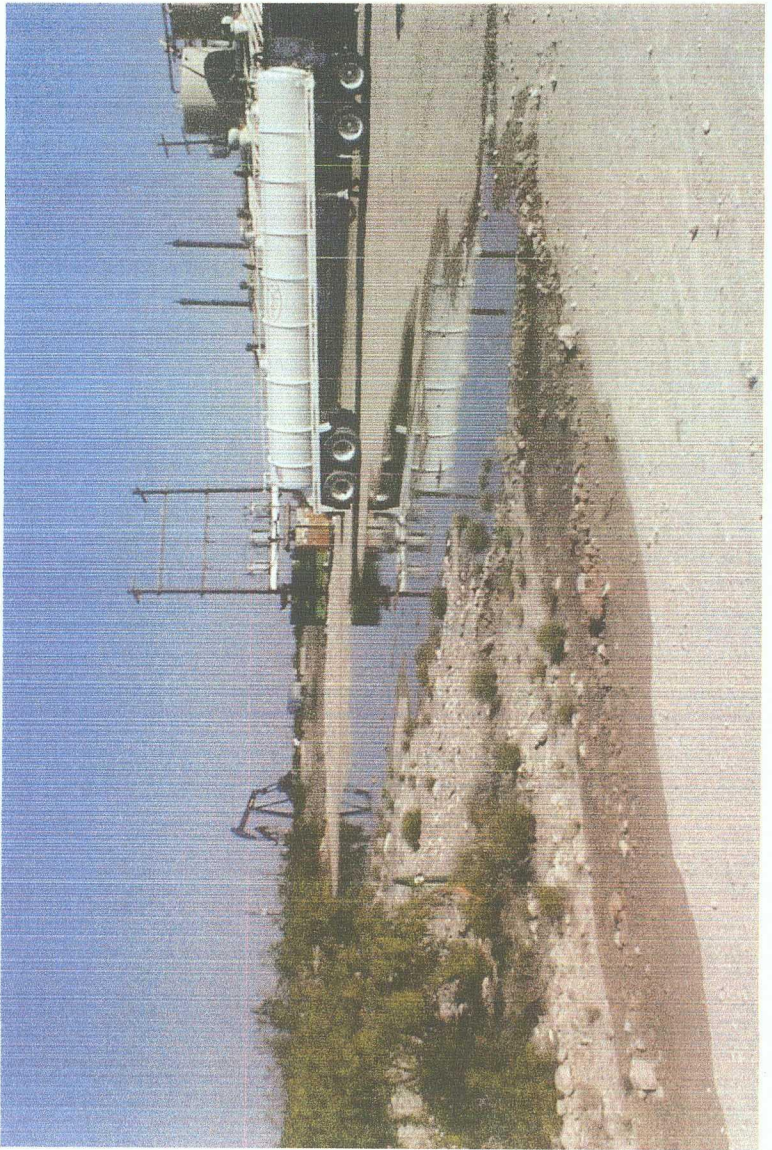












Wells 28, 17, 21

Lovington Municipal Water Field Oil & Gas Operators

Penroc Oil Corp.
P.O. Box 2769
Hobbs, NM 88241
505.397.3596 or 505.492.1236

Saga Petroleum, LLC
415 West Wall – Suite 1900
Midland, TX 79701
432.334.4105 or 432.208.2218

Apache Oil
1209 South Main
Lovington, NM 88260
505.396.5450

Frisco Energy Corp.
2431 East 51st – Suite 3000
Tulsa, OK 74105
918.742.5200

Enterprise Products
2727 No. Loop West
Houston, TX 77008
800.546.3482

Breck Operating
P.O. Box 4250
Midland, TX 79704
432.689.0022

Chesapeake Operating
5014 Carlsbad Hwy.
Hobbs, NM 88240
566.9306 or 391.1462

Key Energy
P.O. Box 489
Lovington, NM 88260
505.396.7167

• W/IN LOS OF WU, ID ALL
INFRASTRUCTURES, LEAKS, SPILLS
→ GDS

↳ ACCIDENT

• PIPELINES (PW, OIL)

• ROADS

• DRAINAGE

• POWER LINES

• WWS

• OIL WELLS

• AS BUILTS

• PAT WISE (CITE MGR)

↳ KURT BORTEN

↳ PATRICK McMAHON

Chevron-Texaco
P.O. Box 609
Lovington, NM 88260
505.396.7503
Wayne Minchew 631.9119

Rice Operating
122 West Taylor
Hobbs, NM 88240
505.393.9174 – Mr. Curtis

Duke Energy Corp.
1625 West Marland
Hobbs, NM 88240
505.397.5600

EOG Resources
P.O. Box 2267
Midland, TX 79702

EOTT
One Briar Lake Plaza
2000 West Sam Houston Parkway South
Suite 400
Houston, TX 77042-3611
505.396.3341

Navajo Refining Company
Post Office Box 159
Artesia, NM 88211

Chase Energy Corp.
P.O. Box 960
Artesia, NM 88211

Dynegy Midstream Services
P.O. Box 1689
Lovington, NM 88260

Link Energy Limited Partnership
P.O. Box 4666

chlorides

Well #	12/12/2001	1/23/2002	2/27/2002	3/28/2002	4/23/2002	5/31/2002	6/27/2002	7/31/2002	10/27/2004	11/23/2004	12/21/2004
WELL# 2		41		36				40		44	
WELL# 3		45		41				50		44	
WELL# 4		67			64			53		62	
WELL# 5					58		53				
WELL# 6								62		61	
WELL# 7		51			119			47		65	
WELL# 8		107			170			168		61	
WELL# 9		72		68			72				
WELL# 11	62	122	87			36					33
WELL# 12	126	94	134			36			64		34
WELL# 13	128	219		116			119				
WELL# 14	85		94			37			99		30
WELL# 15	45	65	72			54			108		40
WELL# 16	36	33	31			40	43		94		
WELL# 17		210		216			249				
WELL# 18	87		156			44					36
WELL# 21		91		88			91		111		

Well #	2/1/2005	4/27/2005	5/31/2005	6/29/2005	7/26/2005	8/31/2005	10/11/2005	11/29/2005	12/19/2005	1/24/2006	2/28/2006	4/27/2006
WELL# 2	43		37					48			53	
WELL# 3	33		51			65		40			43	
WELL# 4	54		58			115		54			57	
WELL# 5	53		53			116		51			53	
WELL# 6	55		60			72		51			51	
WELL# 7	61		62			67		54			50	
WELL# 8	55		61			160		51				
WELL# 9		51			62					40		58
WELL# 11				30			78		40			
WELL# 12				121			158		210			
WELL# 13		97			124					207		158
WELL# 14		30		34			38		37			
WELL# 15				51			51		128			
WELL# 16					37					28		45
WELL# 17		72			200					213		212
WELL# 18				65			71					
WELL# 21		97			102					205		94

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

306-82 (pg 1)

LABORATORY NO. 306-82
SAMPLE RECEIVED 2-28-06
RESULTS REPORTED 3-14-06

COMPLAINT _____ Lovington _____
FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE _____ State

NO. 4 Raw water - taken from City of Lovington water well #5. 2-28-06

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0007	1.0008	1.0006	1.0006
pH When Sampled				
pH When Received	7.36	7.40	7.35	7.36
Bicarbonate as HCO ₃	215	215	220	224
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	240	248	256	232
Calcium as Ca	78	78	80	80
Magnesium as Mg	11	13	14	8
Sodium and/or Potassium	34	26	39	44
Sulfate as SO ₄	62	65	78	66
Chloride as Cl	53	43	57	53
Iron as Fe	1.8	0.3	1.0	0.20
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	452	439	487	475
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	17.85	16.90	16.65	17.40
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.0	3.3	2.8	2.2
Total Petroleum Hydrocarbons	Not Detected	Not Detected	Not Detected	Not Detected

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

By _____

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

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MIDLAND, TEXAS 79701
FAX (432) 682-8819

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MIDLAND, TEXAS 79701
FAX (432) 682-8819

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

LABORATORY NO.	1205-50 (pg 2)
SAMPLE RECEIVED	11-29-05
RESULTS REPORTED	12-9-05

LATHAM PRINTING CO. - 333-1292

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MIDLAND, TEXAS 79701
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FAX (432) 682-8819

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 662-8819

LABORATORY NO.	805-32 (pg 1)
SAMPLE RECEIVED	7-26-05
RESULTS REPORTED	8-5-05

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

CORRECTED COPY
RESULT OF WATER ANALYSES

TO: Mr. Mike Northcutt
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. 705-18 (pg 2)
SAMPLE RECEIVED 6-29-05
RESULTS REPORTED 7-7-05

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE State

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #18. 6-29-05

NO. 2

NO. 3

NO. 4

REMARKS: Sample taken by Chuck Emerson, MWL, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0005			
pH When Sampled				
pH When Received	7.39			
Bicarbonate as HCO ₃	210			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	256			
Calcium as Ca	85			
Magnesium as Mg	11			
Sodium and/or Potassium	26			
Sulfate as SO ₄	46			
Chloride as Cl	65			
Iron as Fe	0.10			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	442			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	17.70			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.2			
Total Petroleum Hydrocarbons	Not Detected			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8619

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

SESSION	FUNCTION	NO.	DESTINATION	STATION	DATE	TIME	PAGE	DURATION	MODE	RESULT
0422	TX	001	6872457			JUN.08	16:38	0000m1n32s	ECM	OK

NAME: MARTIN WATER LABS
TEL: 4326828819
DATE: JUN.08.2005 16:39

TX RESULT REPORT

P.O. BOX 98
MIDLAND, TX. 79702
PHONE: (432) 683-4521

2017 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Robert Campbell LABORATORY NO. 605-46
P O Box 10011, Midland, TX 79702 SAMPLE RECEIVED 5-20-05
 RESULTS REPORTED 6-7-05

COMPANY Trinity Operating & Production LEASE As listed

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Dawson STATE Texas

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Felken Wright //7. 5-20-05

NO. 2 Dean Unit #2903. 5-20-05

NO. 3 Wright A-3. 5-20-05

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0990		1.0997	
pH When Sampled				
pH When Received	6.61		7.00	
Bicarbonate as HCO_3	342		415	
Supersaturation as CaCO_3				
Undersaturation as CaCO_3				
Total Hardness as CaCO_3	14,000		12,000	
Calcium as Ca	4,000		3,600	
Magnesium as Mg	972		729	
Sodium and/or Potassium	62,789		63,809	
Sulfate as SO_4	51		201	
Chloride as Cl	106,500	107,920	106,500	
Iron as Fe	195		91.4	
Barium as Ba	0		0	
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	174,654		175,254	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0		0.0	
Resistivity, ohm-cm at 77° F.	0.063		0.063	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Strontium	1,040		1,160	
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks				
The water from Felken Wright #7 and Wright A-3 both show similar characteristics as previous analyses from these wells. Both correlate well with Spraberry records in this field.				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Additional Determinations And Remarks The water from Felken Wright #7 and Wright A-3 both show similar characteristics as previous analyses from these wells. Both correlate well with Spraberry records in this field.

Form No. 3

By

Greg Ogden, B.S.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

LABORATORY NO. 505-4 (pg 2)
SAMPLE RECEIVED 4-27-05
RESULTS REPORTED 5-4-05

LATHAM PRINTING CO. - 333-1292

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

305-14 (pg 1)

TO: Mr. Mike Northcutt
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. _____
SAMPLE RECEIVED 2-25-05
RESULTS REPORTED 3-2-05

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit

FIELD OR POOL Lovington

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE _____

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #2. 2-1-05
NO. 2 Raw water - taken from City of Lovington water well #3. 2-1-05
NO. 3 Raw water - taken from City of Lovington water well #4. 2-1-05
NO. 4 Raw water - taken from City of Lovington water well #5. 2-1-05

REMARKS: Sample taken by Chuck Emerson, MWL, Inc.

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0007	1.0007	1.0008	1.0009
pH When Sampled				
pH When Received	7.27	7.42	7.38	7.48
Bicarbonate as HCO ₃	215	210	210	220
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	232	216	248	236
Calcium as Ca	75	74	82	83
Magnesium as Mg	11	8	11	7
Sodium and/or Potassium	27	28	28	31
Sulfate as SO ₄	53	57	58	47
Chloride as Cl	43	33	54	53
Iron as Fe	5.1	0.20	1.9	0.25
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	423	409	441	440
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	20.30	21.90	18.60	19.55
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.7	2.8	2.1	2.3
Total Petroleum Hydrocarbons	Not Detected	Not Detected	Not Detected	Not Detected

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

708 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

305-14 (pg 2)

TO: Mr. Mike Northcutt
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. _____
SAMPLE RECEIVED 2-25-05
RESULTS REPORTED 3-3-05

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit

FIELD OR POOL Lovington

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE _____

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #6. 2-25-05

NO. 2 Raw water - taken from City of Lovington water well #7. 2-25-05

NO. 3 Raw water - taken from City of Lovington water well #8. 2-25-05

NO. 4 _____

REMARKS: Sample taken by Chuck Emerson, MWL, Inc.

CHEMICAL AND PHYSICAL PROPERTIES

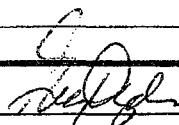
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0008	1.0009	1.0009	
pH When Sampled				
pH When Received	7.43	7.70	7.68	
Bicarbonate as HCO ₃	210	210	234	
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	252	252	244	
Calcium as Ca	83	82	83	
Magnesium as Mg	11	12	9	
Sodium and/or Potassium	33	31	42	
Sulfate as SO ₄	70	58	62	
Chloride as Cl	55	61	55	
Iron as Fe	0.89	0.59	1.58	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	462	453	485	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	17.50	16.80	17.10	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.7	2.3	2.4	
Total Petroleum Hydrocarbons	Not Detected	Not Detected	Not Detected	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

best of his knowledge and belief.

The undersigned certifies the above to be true and correct to the



709 W. INDIANA
MIDLAND, TEXAS 79701
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P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Mike Norheutt LABORATORY NO. 1204-52 (pg 1) corrected copy
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 11-23-04
RESULTS REPORTED 12-25-04 (12-30-04)

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #2. 11-23-04
NO. 2 Raw water - taken from City of Lovington water well #3. 11-23-04
NO. 3 Raw water - taken from City of Lovington water well #4. 11-23-04
NO. 4 Raw water - taken from City of Lovington water well #6. 11-23-04

REMARKS: Sample taken by Chuck Emerson, MWL, Inc

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0005	1.0007	1.0008	1.0006
pH When Sampled				
pH When Received	7.09	7.18	7.36	7.32
Bicarbonate as HCO ₃	210	215	212	215
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	252	244	256	260
Calcium as Ca	80	82	88	88
Magnesium as Mg	13	10	9	10
Sodium and/or Potassium	20	26	33	29
Sulfate as SO ₄	59	61	64	59
Chloride as Cl	44	44	62	61
Iron as Fe	0.99	0.49	13.4	0.25
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	425	438	469	462
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	19.95	19.70	17.20	17.40
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.10	2.40	2.40	2.40
Total Petroleum Hydrocarbons	Not Detected	Not Detected	Not Detected	Not Detected

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 702-254
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 7/31/02
RESULTS REPORTED 8/23/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #2. 7/31/02
NO. 2 Raw water - taken from City of Lovington water well #3. 7/31/02
NO. 3 Raw water - taken from City of Lovington water well #4. 7/31/02
NO. 4 Raw water - taken from City of Lovington water well #6. 7/31/02

REMARKS: Samples taken by Chuck Emerson, Martin Water Laboratories, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0026	1.0031	1.0041	1.0042
pH When Sampled				
pH When Received	7.69	7.96	7.70	7.75
Bicarbonate as HCO ₃	220	224	210	220
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	216	228	232	252
Calcium as Ca	70	72	75	80
Magnesium as Mg	10	12	11	13
Sodium and/or Potassium	47	42	42	40
Sulfate as SO ₄	78	63	74	68
Chloride as Cl	40	50	53	62
Iron as Fe	0.10	0.05	0.44	0.15
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	464	464	464	482
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohm-cm at 77° F.	17.95	17.70	17.45	16.65
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.8	4.1	3.4	3.2
Total Petroleum Hydrocarbons	<5.0	6.0	<5.0	5.1

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 702-254 (page 2)
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 7/31/02
RESULTS REPORTED 8/23/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #7. 7/31/02
NO. 2 Raw water - taken from City of Lovington water well #8. 7/31/02
NO. 3
NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0031	1.0041		
pH When Sampled				
pH When Received	7.74	7.64		
Bicarbonate as HCO ₃	195	229		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	228	288		
Calcium as Ca	72	93		
Magnesium as Mg	12	14		
Sodium and/or Potassium	30	100		
Sulfate as SO ₄	64	77		
Chloride as Cl	47	168		
Iron as Fe	0.25	0.40		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	419	680		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohm-cm at 77° F.	19.85	10.51		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.3	3.7		
Total Petroleum Hydrocarbons	<5.0	<5.0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 602-207
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 6/27/02
RESULTS REPORTED 7/25/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #5. 6/27/02
NO. 2 Raw water - taken from City of Lovington water well #9. 6/27/02
NO. 3 Raw water - taken from City of Lovington water well #13. 6/27/02
NO. 4 Raw water - taken from City of Lovington water well #16. 6/27/02

REMARKS: Sample taken by Chuck Emerson, Martin Water Laboratories, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018	1.0016	1.0019	1.0016
pH When Sampled				
pH When Received	7.48	7.51	7.49	7.53
Bicarbonate as HCO ₃	210	210	215	215
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	236	260	280	232
Calcium as Ca	75	93	93	75
Magnesium as Mg	12	7	12	11
Sodium and/or Potassium	37	39	68	39
Sulfate as SO ₄	68	67	79	78
Chloride as Cl	53	72	119	43
Iron as Fe	0.25	0.10	0.20	0.10
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	455	488	586	461
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohm/m at 77° F.	17.75	16.38	12.60	17.90
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.9	2.4	2.9	2.6
Total Petroleum Hydrocarbons	<3.00	<3.00	<3.00	<3.00

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Waylan C. Martin, M.A.

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 502-292
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 5/31/02
RESULTS REPORTED 6/13/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit

FIELD OR POOL Lovington

SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #11. 5/31/02
NO. 2 Raw water - taken from City of Lovington water well #12. 5/31/02
NO. 3 Raw water - taken from City of Lovington water well #14. 5/31/02
NO. 4 Raw water - taken from City of Lovington water well #15. 5/31/02

REMARKS: Sample taken by Chuck Emerson, Martin Water Labs, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0015	1.0016	1.0015	1.0016
pH When Sampled				
pH When Received	7.26	7.33	7.29	7.28
Bicarbonate as HCO ₃	229	244	234	224
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	208	208	216	232
Calcium as Ca	67	70	74	77
Magnesium as Mg	10	8	8	10
Sodium and/or Potassium	55	64	55	55
Sulfate as SO ₄	87	94	88	89
Chloride as Cl	36	36	37	54
Iron as Fe	0.25	0.15	0.15	0.20
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	484	515	496	509
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohm-cm at 77° F.	17.55	17.25	17.25	16.77
Suspended Oil				
Filterable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.5	4.0	4.4	4.2
Total Petroleum Hydrocarbons	<3.0	<3.0	<3.0	<3.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 502-292 (page 2)
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 5/31/02
RESULTS REPORTED 6/13/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #16. 5/31/02
NO. 2 Raw water - taken from City of Lovington water well #18. 5/31/02
NO. 3
NO. 4

REMARKS: Samples taken by Chuck Emerson, Martin Waters Labs, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0016	1.0017		
pH When Sampled				
pH When Received	7.14	7.33		
Bicarbonate as HCO ₃	239	259		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	232	224		
Calcium as Ca	74	77		
Magnesium as Mg	12	8		
Sodium and/or Potassium	47	59		
Sulfate as SO ₄	79	76		
Chloride as Cl	40	44		
Iron as Fe	0.05	0.00		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	490	522		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohm-cm at 77° F.	17.30	16.50		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	4.3	3.5		
Total Petroleum Hydrocarbons	<3.0	<3.0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 402-197
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 4/23/02
RESULTS REPORTED 5/1/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #4. 4/23/02
NO. 2 Raw water - taken from City of Lovington water well #5. 4/23/02
NO. 3 Raw water - taken from City of Lovington water well #7. 4/23/02
NO. 4 Raw water - taken from City of Lovington water well #8. 4/23/02

REMARKS: Sample taken by Chuck Emerson, Martin Water Laboratories, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0015	1.0015	1.0017	1.0018
pH When Sampled				
pH When Received	7.28	7.32	7.40	7.25
Bicarbonate as HCO ₃	239	234	254	244
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	256	232	268	292
Calcium as Ca	80	77	91	93
Magnesium as Mg	14	10	10	15
Sodium and/or Potassium	44	49	81	104
Sulfate as SO ₄	63	61	65	74
Chloride as Cl	64	58	119	170
Iron as Fe	0.15	0.00	1.2	0.05
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	504	489	620	699
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohm-cm at 77° F.	16.22	16.85	12.40	10.18
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.5	3.1	5.3	4.5
Total Petroleum Hydrocarbons	<3.0	<3.0	<3.0	<3.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 302-232
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 3/28/02
RESULTS REPORTED 4/12/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #2. 3/28/02
NO. 2 Raw water - taken from City of Lovington water well #3. 3/28/02
NO. 3 Raw water - taken from City of Lovington water well #9. 3/28/02
NO. 4 Raw water - taken from City of Lovington water well #13. 3/28/02

REMARKS: Sample taken by Chuck Emerson, Martin Water Laboratories, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 80° F.	1.0016	1.0016	1.0018	1.0020
pH When Sampled				
pH When Received	7.37	7.39	7.33	7.45
Bicarbonate as HCO ₃	224	229	234	244
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	212	228	260	288
Calcium as Ca	74	77	85	94
Magnesium as Mg	7	9	12	13
Sodium and/or Potassium	44	43	45	76
Sulfate as SO ₄	71	72	67	85
Chloride as Cl	36	41	68	116
Iron as Fe	0.10	0.05	0.05	0.05
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	456	470	511	629
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohm-cm at 77° F.	19.50	17.90	15.94	12.20
Suspended Oil				
Filtrable Solids, as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.4	3.0	3.0	3.6
Total Petroleum Hydrocarbons	<3.0	<3.0	<3.0	<3.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson LABORATORY NO. 302-232 (page 2)
P.O. Box 609, Lovington, NM 88260-0609 SAMPLE RECEIVED 3/28/02
RESULTS REPORTED 4/12/02

COMPANY Pure Resources, Inc. LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington water well #17. 3/28/02
NO. 2 Raw water - taken from City of Lovington water well #21. 3/28/02
NO. 3
NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0020	1.0017		
pH When Sampled				
pH When Received	7.23	7.35		
Bicarbonate as HCO ₃	224	254		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	428	268		
Calcium as Ca	141	85		
Magnesium as Mg	18	14		
Sodium and/or Potassium	70	57		
Sulfate as SO ₄	88	57		
Chloride as Cl	216	88		
Iron as Fe	0.05	0.05		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	757	554		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	8.79	14.50		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	4.2	3.9		
Total Petroleum Hydrocarbons	<3.0	<3.0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

700 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 883-4521

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. 202-271
SAMPLE RECEIVED 2/27/02
RESULTS REPORTED 3/7/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit

FIELD 08 POOL Lovington

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington well #11. 2/27/02

NO. 2 Raw water - taken from City of Lovington well #12. 2/27/02

NO. 3 Raw water - taken from City of Lovington well #14. 2/27/02

NO. 4 Raw water - taken from City of Lovington well #15. 2/27/02

REMARKS: Sample taken by Chuck Emerson, Martin Water Laboratories, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0017	1.0020	1.0019	1.0018
pH When Sampled				
pH When Received	7.42	7.37	7.46	7.47
Bicarbonate as HCO ₃	195	210	244	224
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	268	316	272	240
Calcium as Ca	88	104	93	83
Magnesium as Mg	12	14	10	8
Sodium and/or Potassium	44	63	68	58
Sulfate as SO ₄	74	83	75	72
Chloride as Cl	87	134	94	71
Iron as Fe	0.05	0.10	1.4	0.20
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	503	610	588	520
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohm·m at 77° F.	15.50	12.15	13.60	15.80
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.1	3.5	5.4	3.9
Total Petroleum Hydrocarbons	<3.0	<3.0	<3.0	<3.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 883-4521

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. 202-271 (page 2)
SAMPLE RECEIVED 2/27/02
RESULTS REPORTED 3/7/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from City of Lovington well #16. 2/27/02

NO. 2 Raw water - taken from City of Lovington well #18. 2/27/02

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0015	1.0020		
pH When Sampled				
pH When Received	7.43	7.44		
Bicarbonate as HCO ₃	229	224		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	220	360		
Calcium as Ca	74	102		
Magnesium as Mg	9	25		
Sodium and/or Potassium	45	66		
Sulfate as SO ₄	71	84		
Chloride as Cl	31	156		
Iron as Fe	2.3	0.20		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	463	663		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen.				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohm-cm at 77° F.	19.70	10.99		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.9	4.3		
Total Petroleum Hydrocarbons	<3.0	<3.0		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. 102-194 (page 3)
SAMPLE RECEIVED 1/23/02
RESULTS REPORTED 1/30/02

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN: _____

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1	Raw water - taken from City of Lovington water well #13.	1/23/02
NO. 2	Raw water - taken from City of Lovington water well #15.	1/23/02
NO. 3	Raw water - taken from City of Lovington water well #16.	1/23/02
NO. 4	Raw water - taken from City of Lovington water well #17.	1/23/02

REMARKS: Sample taken by Chuck Emerson, Martin Water Laboratories, Inc.

[illegible]

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. 1201-129
SAMPLE RECEIVED 12/12/01
RESULTS REPORTED 12/18/01

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1	Raw water - taken from City of Lovington water well #11.	12/12/01
NO. 2	Raw water - taken from City of Lovington water well #12.	12/12/01
NO. 3	Raw water - taken from City of Lovington water well #13.	12/12/01
NO. 4	Raw water - taken from City of Lovington water well #14.	12/12/01

REMARKS: Sample taken by Chuck Emerson, Martin Water Laboratories, Inc.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0016	1.0020	1.0020	1.0016
pH When Sampled				
pH When Received	7.42	7.50	7.55	7.46
Bicarbonate as HCO ₃	200	195	200	185
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	320	360	330	310
Calcium as Ca	91	107	104	93
Magnesium as Mg	22	22	17	19
Sodium and/or Potassium	5	28	46	15
Sulfate as SO ₄	76	80	82	67
Chloride as Cl	62	126	128	85
Iron as Fe	0.04	0.04	0.04	56.1
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	458	560	576	464
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	16.95	12.65	12.49	16.14
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.6	2.5	2.4	1.1
Total Petroleum Hydrocarbons	<3.0	<3.0	<3.0	<3.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

RESULT OF WATER ANALYSES

TO: Mr. Tejay Simpson
P.O. Box 609, Lovington, NM 88260-0609

LABORATORY NO. 1201-129 (Page 2)
SAMPLE RECEIVED 12/12/01
RESULTS REPORTED 12/18/01

COMPANY Pure Resources, LP LEASE Lovington San Andres Unit
FIELD OR POOL Lovington
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1	Raw water - taken from City of Lovington water well #15.	12/12/01
NO. 2	Raw water - taken from City of Lovington water well #16.	12/12/01
NO. 3	Raw water - taken from City of Lovington water well #18.	12/12/01
NO. 4		

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0016	1.0015	1.0019	
pH When Sampled				
pH When Received	7.51	7.53	7.68	
Bicarbonate as HCO ₃	195	190	195	
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	260	270	300	
Calcium as Ca	82	78	88	
Magnesium as Mg	14	18	19	
Sodium and/or Potassium	19	8	23	
Sulfate as SO ₄	74	79	65	
Chloride as Cl	45	36	87	
Iron as Fe	0.04	0.04	13.5	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	428	410	477	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	19.60	20.50	15.80	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.4	2.7	2.4	
Total Petroleum Hydrocarbons	<3.0	<3.0	<3.0	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Pat Wise

From: "Manuel Molina" <mmolina@leaco.net>
To: "Dwayne Taylor" <luckyservices@leaco.net>; "Zeak Williams" <hopyvonne@aol.com>; "Aggie Choi" <achoi@choice-furniture.com>; "Ben Jaime" <ben.jaime@xcelenergy.com>; "Bethe Cunningham" <bethe@leaco.net>; "Betty Rickman" <townoftatum@leaco.net>; "Bob Reid" <bobreid@leaco.net>; "Brenda Brooks" <bbrooks@mainstreethobbs.com>; "Brian Norwood" <bgnorwood@leaco.net>; "Bruce Lanier" <superiorprinting@leaco.net>; "Bryant Bullard" <copies@valornet.com>; "Carroll Leavell" <Carroll.Leavell@state.nm.us>; "Chris Valdez" <cvaldez@valortelecom.com>; "Clay Claiborne" <clayc@zianet.com>; "Cliff Burch" <burchc@hobbsschools.net>; "Dan Dible" <ddible@hobbssnm.org>; "Daniel Johncox" <yhm@gte.net>; "Darrold Stephenson" <triplesjal@leaco.net>; "David Pyeatt" <david@ewtitle.com>; "David Shaw" <david.shaw@nlgh.org>; "Debra Hicks" <dicks@pettigrew.us>; "Dick Raaz" <dick.raaz@wipp.ws>; "Doug McDaniels" <jdmcd1260@aol.com>; "Edmundo Castaneda" <vicki.millender@triadhospitals.co>; "Edsel Clifford" <edsel@cliffordelectricin.com>; "Eric Gray" <EGHarley@msn.com>; "Finn Smith" <fsmith@watsontruck.com>; "Frank Dick" <rfrank@state.nm.us>; "Gale Blackwell" <permian@leaconet.com>; "Gary Dill" <gdill@csu.edu>; "Gary Fonay" <fonay4som@aol.com>; "Gary Jones" <gljones@basinsurveys.com>; "Gay Kernan" <ggkern@valornet.com>; "Gloria Munoz" <gmunoz@nmjc.cc.nm.us>; "Harry Teague" <harry.teague@teacoenergy.com>; "Hector Ramirez" <hr88241@aol.com>; "James Brown" <jdbrowniii@hotmail.com>; "Janice Spence" <BJ@jimspence.com>; "Joe Calderon" <calderon@valornet.com>; "John Boyd" <boydcasa@msn.com>; "Joseph Puckett" <puckj01@wellsfargo.com>; "Kathi Bearden" <bearden@hobbssnews.com>; "Lee Roberson" <roberson@valornet.com>; "Manuel Molina" <mmolina@leaco.net>; "Marilyn Dill" <marilyn@leaco.net>; "Mark Bawcum" <mbawcum@fbfs.com>; "Marshall Cohen" <mcohen@nefnm.com>; "Marty Cope" <mcope@leaco.net>; "Mike Hoyl" <mhoyle@wcb.com>; "Mike Tinley" <mtinley@danielsinsuranceinc.com>; "Mike Whitehead" <bg_transportation@leaco.net>; "Monty Newman" <mayor@hobbssnm.org>; "Monty Newman" <mnewman@hobbssfinesthomes.com>; "Pat Wise" <pwise@lovington-nm.org>; "Paul Campbell" <pcampbell@forresttire.com>; "Paul Starr" <paul@1radiosquare.com>; "Ray Battaglini" <hobbsschamber@leaco.net>; "Ray Betzen" <rbetzen@farmersagent.com>; "Richard Hunt" <richard.hunt@state.nm.us>; "Rick Bruce" <rbruce@leacounty.net>; "Robert Dunn" <bob.dunn@lcsb.com>; "Robert Rivinoja" <rivinoja@jmcpa.com>; "Robert Wallach" <rwallach@leaco.net>; "Rose Scott" <rose.scott@wipp.ws>; "Sam Cobb" <scobb1@kraft.com>; "Scotty Holloman" <scotty@leaco.net>; "Seborn South" <ssouth@zngc.com>; "Shane Cavitt" <scavitt@leaco.net>; "Skeet Posey" <skeetposey@yahoo.com>; "Stan Rounds" <srounds@cdrservices.com>; "Steve McCleery" <smccleery@nmjc.cc.nm.us>; "Sydney Kennedy" <swells@leaco.net>; "T.J. Parks" <tj@tatumschools.org>; "Tom Jones" <tjones@wcstexas.com>; "Troy Teague" <troy.teague@teacoenergy.com>; "Zane Bergman" <zbergman@1stnbnm.com>
Sent: Thursday, June 29, 2006 2:47 PM
Subject: Membership Drive Reception

Greetings!

EDC of Lea County will be hosting a membership drive reception on **July 20, 2006 at Zia Park Racetrack & Casino - Turf Club from 6-8 p.m.** Everyone is invited to attend, please RSVP to mmolina@leaco.net or 505-397-2039. We are collecting door prizes to give away at the reception. If your business would like to be featured or has any prizes to donate to be given away, please contact me. This is the first time we have held a membership reception and would like our new members to feel like an important part of the organization, so your cooperation is greatly appreciated.

Lets make it a fun evening with colleagues and leaders. If you have any questions, contact me at 505-397-2039.

Thanks!

Manuel R. Molina
Community Development Specialist/Marketing Director
Economic Development Corporation of Lea County
505/397-2039
505/392-2300 fax
www.leanm.org

Pat Wise

From: "Patrick B. McMahon" <hsncpbm@leaco.net>
To: "Pat Wise" <pwise@lovington-nm.org>
Sent: Wednesday, June 28, 2006 8:58 AM
Subject: Fw: Lovington Fresh Water Well Field Audit

----- Original Message -----

From: Price, Wayne, EMNRD
To: Williams, Chris, EMNRD ; Johnson, Larry, EMNRD
Cc: hsncpbm@leaco.net ; VonGonten, Glenn, EMNRD ; Sanchez, Daniel J., EMNRD ; Fesmire, Mark, EMNRD
Sent: Tuesday, June 27, 2006 4:45 PM
Subject: Lovington Fresh Water Well Field Audit

Dear Chris and Larry:

I am meeting with Patrick McMahon Lovington's attorney at am Thursday morning June 29 for the start of a comprehensive environmental audit of the Lovington well field. We will focus on well #17 and #21 initially but will expand beyond this in the near future. OCD will approach this project in three phases. Phase I will be to conduct an environmental audit of the area. Phase II will consist of summarizing the audit results by identifying areas of concern, recommend BMP's, clean-up action plans and set schedules for future activities. Phase III will consist of implementing Phase II recommendations and requirements within OCD rules and regulations.

Phase I

1. Identify all operators in the Well Field.
2. Map location of all wells, tank batteries, pipelines and pits in reference to fresh water wells.
3. Prioritize sites that are in close proximity to the fresh water wells.
4. Obtain Fresh water well data from the City and evaluate for contamination.
5. Research OCD spill and remediation/abatement reports for the area.

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Pat Wise

From: "Patrick B. McMahon" <hsncpbm@leaco.net>
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Sent: Wednesday, June 28, 2006 8:58 AM
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From: Price, Wayne, EMNRD
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Houston, TX 77210-0466