

1
2
3
4
5

5 of 6

750240 CoC Print Group 002 of 002



P.O. Box 9000 • KILGORE, TEXAS 75663-9000 • 903/984-8551 • 903/984-5914
Quality Environmental Chemistry Since 1965
NELAP-accredited #02005

303705
369285

Date 8/3/16

Eurolna Eaton Analytical
110 HW St
South Elmd, D1 46617
800/332-4345

Please analyze the following samples:

Sample Identification	Matrix	Date Taken	Time Taken	TAT	Testing Required
1512471	DW	8/3/16	1016	Routine	2376-tetrachlorodibenzo-p-dioxin (1) <i>3012018</i> DW PCBs (1) <i>3012017</i> Endothel (1) <i>352680</i> Dioxin (1) <i>352681</i> <i>OK to continue</i> <i>standing report</i> <i>TL 4/16</i>

Require RUSH status (24 Hour Turn Around Time) Require E-mail as soon as completed (skeeter@ana-lab.com)

If you have any questions about the testing, contact Bill Peery or Skeeter Ludwig at 903-984-0551.

Sincerely,

Card Provided Sample Co-Laborer

atec wet

Skeeter Ludwig
Operations Manager

Date	Time	Print Name	Signature	Affiliation
8/3/16	11:00	<i>Steve Ludwig</i>	<i>[Signature]</i>	ANA-Lab
8/4/16	11:00	<i>[Signature]</i>	<i>[Signature]</i>	EEA



Anna-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Report Page 1 of 48

Phone 903/984-8551 e-Mail corp@ana-lab.com LELAP-accredited #02005
Employee Owned Integrity Caring Continual Improvement
Printed 09/09/2016 Page 1 of 1

Report

Table of Contents

Report To

City of Grand Saline
Carol Acker
Water & Sewer Dept.
132 E. Frank St.
Grand Saline, TX 75140-1824

Account
GRA1 -A

Project
750240

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
750240_r03_03_ProjectResults	Ana-Lab Project P:750240 C:GRA1 Project Results	11
750240_r10_05_ProjectQC	Ana-Lab Project P:750240 C:GRA1 Project Quality Control Groups	21
750240_r99_09_CoC_1_of_2	Ana-Lab CoC GRA1 750240_1_of_2	10
750240_r99_09_CoC_2_of_2	Ana-Lab CoC GRA1 750240_2_of_2	5
Total Pages:		47

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



NELAP-accredited #T104704201



Referred To:
 City of Grand Saline
 Carol Acker
 Water & Sewer Dept
 132 E. Frank St.
 Grand Saline, TX 75140-1824

Account: **GRAI-A**
 Project: **750240**

750240 CoC Print Group 002 of 002

Client Name: Anna-Lab

Report #: 309265

Results

1511471	TCRQ 290	Received:	08/03/2016
Drinking Water			
Analytes subcertified to EMSL. Diquat, Endosulfan, Dieldrin, and PCB subcertified to Eurofins/Exxon.			
Collection	Parameter	Prepared	08/09/2016 09:05:41
z	Sulfide as Hydrogen Sulfide	Results	Units
		0.027	mg/L
			0.0159
EPA 1613 - SUB	Parameter	Prepared	06/25/2016 11:05:00
	2376-tetrachlorodibenzo-p-dioxin	Results	Units
		See attached	
EPA 200.7.4.4	Parameter	Prepared	07/31/11 06/09/2016 10:15:00
N	Calcium	Results	Units
		4.52	mg/L
N	Total Iron	Results	Units
		0.214	mg/L
EPA 200.8.5.4	Parameter	Prepared	07/31/11 06/09/2016 10:15:00
N	Aluminum, Total	Results	Units
		0.126	mg/L
N	Antimony, Total	Results	Units
		0.0005	mg/L
N	Arsenic, Total	Results	Units
		0.002948	mg/L
N	Barium	Results	Units
		0.8326	mg/L
N	Beryllium, Total	Results	Units
		<0.0005	mg/L

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard consisting one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCC, CCV, ICV, and IPC are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an amount of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBA, and FBS are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Empty or Blank (FEB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FEB/LTB container follows the collection routine to and from the collection site, but the FEB/LTB is not opened at any time during the trip. The FEB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SSM, SSM, and SSM / LFSMD, LFSMD, and LFSMD are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MS, MS, and MS / LFSM, LFSMD, and LFSMD are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUA) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, matrix and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



1
2
3
4

3 of 5

750240 CoC Print Group 002 of 002

Client Name: Ana-Lab

Report #: 369285

Sampling Point: 1512471

PWS ID: Not Supplied

Analyte ID #	Analyte	Method	Reg. Limit	MCL	Result	Units	Preparation Date	Analyzed	EPA ID #
12971112	Arsoide 0018	605	---	0.08	<0.04	ug/L	06/12/16 16:23	06/13/16 06:23	211973
11162162	Arsoide 1221	605	---	0.19	<0.10	ug/L	06/12/16 16:23	06/13/16 06:23	261272
11161164	Arsoide 1222	605	---	0.22	<0.23	ug/L	06/12/16 16:23	06/13/16 06:23	361287
83492168	Arsoide 1243	605	---	0.28	<0.28	ug/L	06/12/16 16:23	06/13/16 06:23	361287
12972294	Arsoide 1243	605	---	0.1	<0.1	ug/L	06/12/16 16:23	06/13/16 06:23	261272
11011491	Arsoide 1228	605	---	0.1	<0.1	ug/L	06/12/16 16:23	06/13/16 06:23	361287
11094424	Arsoide 1280	605	---	0.2	<0.2	ug/L	06/12/16 16:23	06/13/16 06:23	361287
97214	Chlorure	605	2"	0.1	<0.1	ug/L	06/12/16 16:23	06/13/16 06:23	361287
6021382	Tempere	605	2"	1.0	<1.0	ug/L	06/12/16 16:23	06/13/16 06:23	361287
161232	Iron-tot	605	100"	0.8	<0.8	ug/L	06/12/16 16:23	06/13/16 11:29	261272
85207	Cuivre	605	20"	0.4	<0.4	ug/L	06/05/16 12:13	06/06/16 12:13	361287

Any positive Arsoide result would require analysis for total PCB as per 606A (MCL = 0.5 ug/L)

Analyte ID #	Analyte	Method	Reg. Limit	MCL	Result	Units	Preparation Date	Analyzed	EPA ID #
1246418	Duane	1813	30"	0.0	<0.0	ug/L	---	06/13/16 06:12	361287

1. EEA has demonstrated it can achieve these report limits in respect water, but can not document them in all sample locations.
Reg. Limit Type: MCL
Symbol: 2
MCL: 1
Reg. Limit Type: RL
Symbol: 1



Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com
 Analytical Services Division
 Printed: 09/09/2016

Results

1
2
3
4
5

1512471 TCEQ 290 Received: 08/03/2016
 Drinking Water Collected by: DOJ Affiliation: Ana-Lab 08/03/2016 10:15:00

Asbestos subcontracted to EMSL. Depot, Enkefball, Desiza, and PCB subcontracted to EurofinsEaba

EPA 200.8-5.4	Parameter	Prepared	Results	Units	RL	Analyzed	Flags	MCL	CAS	Result	CLC
N	Cadmium, Total	673151	<0.005	mg/L	0.005	05/01/2016		0.005	7440-43-9	34	
N	Chromium, Total	673151	0.005195	mg/L	0.005	05/01/2016	J	100	7440-47-3	34	
N	Copper, Total	673151	0.015	mg/L	0.001	05/01/2016	D	1.30	MCL 2448-59-8	34	
N	Lead, Total	673151	0.000027	mg/L	0.005	05/01/2016	JR	0.015	7439-92-1	34	
N	Manganese, Total	673151	0.0519	mg/L	0.051	05/01/2016		0.050	7439-96-5	34	
N	Thalium, Total	673151	<0.005	mg/L	0.005	05/01/2016		0.002	7449-29-0	34	
N	Zinc, Total	673151	<0.005	mg/L	0.001	05/01/2016	J	5.00	7440-66-4	34	
EPA 200.8-5.4	Parameter	Prepared	Results	Units	RL	Analyzed	Flags	MCL	CAS	Result	CLC
N	Selenium, Total	673151	<0.001	mg/L	0.001	05/01/2016		0.050	7782-49-2	34	
N	Silver, Total	673151	<0.005	mg/L	0.005	05/01/2016		0.100	7440-22-4	34	
EPA 245.1-3	Parameter	Prepared	Results	Units	RL	Analyzed	Flags	MCL	CAS	Result	LFS
N	Mercury	673151	<0.200	ug/L	0.200	05/01/2016		2.00	MCL 495-97-4	37	
EPA 300.0-2.1	Parameter	Prepared	Results	Units	RL	Analyzed	Flags	MCL	CAS	Result	ALB
N	Fluoride	673151	0.261	mg/L	0.100	05/01/2016		4.00	MCL	01	

Corporate Address: 2400 Dallas Rd. Kilgore, TX 75642

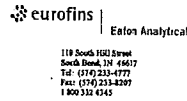
Corporate: 2400 Dallas Road Kilgore TX 75642



NELAP-accredited #1104704201



1512471	TCEQ 290	Received:	08/03/2016
Drinking Water			
Collected by: DJJ			
Analysis: Ana-Lab			
Date: 08/03/2016 10:15:00			
Analysis subcontracted to LSNL. Dquat, Endo/Bact, Dissolve, and PCB subcontracted to Eurofins Eto			
EPA 300.0 2.1	Parameter	Results	Units
N	Sulfate	9.27	mg/L
EPA 300.0 2.1	Parameter	Results	Units
N	Chloride	255	mg/L
N	Nitrate-Nitrite Nitrogen	<0.200	mg/L
EPA 300.0 2.1	Parameter	Results	Units
N	DW Nitrate-Nitrogen Total	0.0107	mg/L
N	DW Nitrite-Nitrogen, Total	<0.008	mg/L
EPA 505 - Subcontract	Parameter	Results	Units
	DW PCBs - Subcontract	See attached	
EPA 508.3.1	Parameter	Results	Units
N	Chlordane	<0.0102	ug/L
N	Toxaphene	<0.0102	ug/L
EPA 615.1.4	Parameter	Results	Units
N	2,4-Dichlorophenoxyacetic acid	<0.623	ug/L
N	2,4,6-TP (S/Vest)	<0.623	ug/L
N	Dakapon (2-chlorophenoxyacetic acid)	<2.49	ug/L
N	Dinoseb	<0.623	ug/L
Z	Pentachlorophenol	<0.623	ug/L
N	Fluorim	<0.623	ug/L



750240 CoC Print Group 002 of 002

Laboratory Report

Client: Ana-Lab
 Address: Skewier Ludwig 2500 Dudley Road P.O. Box 9000 Kilgore, TX 75663
 Report: 369285
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

EPA ID #	Client ID	Method	Collected Date / Time	Collected Qty	Received Date / Time
361978	1512471	1815	08/03/16 10:15	Client	08/04/16 10:00
361978	1512471	609	08/03/16 10:15	Client	08/04/16 10:00
361980	1512471	648.1	08/03/16 10:15	Client	08/04/16 10:00
361981	1512471	549.2	08/03/16 10:15	Client	08/04/16 10:00

Note: Sample containers were provided by the client.
 Note: Dissin analysis was performed by Pace Analytical Services, Inc., Minneapolis, MN.
 Note: The sample submitted for Method 549.2 analysis was received at a pH=2, which is outside of method requirements. The sample pH was adjusted by laboratory personnel prior to analysis.
 Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.
 We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Tina Chelbowick at (974) 233-4777.
 Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Authorized Signature: *[Signature]*
 Client Name: Ana-Lab
 Report #: 369285
 Date: 09/09/2016
 Page 1 of 3

1
2
3
4

1 of 5

750240 CoC Print Group 002 of 002



Eaton Analytical

NELAC NARRATIVE PAGE

Client: Ana-Lab Report #: 359285NP

Eurofins Eaton Analytical, Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Trest Chelbowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

Method 549.2

In the analysis, the Diquat recovery in the CCC (122%) was outside the acceptance limits of 80-120%.

There were no additional quality control failures.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Trest Chelbowski ASM 09/24/2016
Authorized Signature Title Date

Page 1 of 1

Page 3 of 7



Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-6551 FAX 903/984-5914 e-Mail corp@ana-lab.com

Printed: 09/09/2016

1
2
3
4
5

Results

1512471	TCEQ 290	Received	08/03/2016
Ditching Water	Collected by: DCS	App: Unknown	Ana-Lab
Aldehydes re-reconstituted to EMSL. Diquat, Endo-Gall, Dioxins and PCB sub-contracted to Eurofins Eaton			
EPA 524.2-4.1	Prepared	08/03/2016	15-09-09
Parameter	Result	Units	RL
N 1,1,1-Trichloroethane	<1.00	ug/L	100
N 1,1,2-Trichloroethane	<1.00	ug/L	100
N 1,1-Dichloroethylene	<1.00	ug/L	100
N 1,2,4-Trichlorobenzene	<1.00	ug/L	100
N 1,2-Dichloroethane	<1.00	ug/L	100
N 1,2-Dichloropropane	<1.00	ug/L	100
N Benzene	<1.00	ug/L	100
N Bromodichloromethane	<1.00	ug/L	100
N Bromoform	<1.00	ug/L	100
N Carbon Tetrachloride	<1.00	ug/L	100
N Chlorobenzene	<1.00	ug/L	100
N Chloroform	<1.00	ug/L	100
N cis-1,2-Dichloroethylene	<1.00	ug/L	100
N Dibromochloromethane	<1.00	ug/L	100
N Dichloromethane	<1.00	ug/L	100
N Ethylbenzene	<1.00	ug/L	100
N m- and p-Xylene	<1.00	ug/L	100

Corporate Shipping 2600 Doolittle Rd Kilgore, TX 75662

Corporate 2600 Doolittle Road Kilgore, TX 75662



NELAP-accredited #T104704201



Ann-Lab Corp. P.O. Box 9000 Kilgore, TX 75663 Report Page 6 of 48

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com
http://www.ana-lab.com

Results

Printed: 09/09/2016 Page 5 of 11

Report Page 6 of 48

Report Page 43 of 48

1512471 TCEQ 290 Received: 08/03/2016
Drinking Water Collected by: DKJ (Station: Ana-Lab) (08/03/2016 10:15:00)

Asbestos subcontracted to EMSL. Dapax, Endosulf, Dioxins, and PCB subcontracted to Eurofins Eaton.

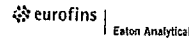
EPA 524.2.4.1	Prepared: 07/17/12	05/08/2016	13:49:00	Analyzed: 07/17/12	05/08/2016	13:49:00	JRH
Parameter	Results	Units	RL	Flags	MLC	CL5	Route
N o-Dichlorobenzene	<1.00	ug/L	1.00		600 MCL155-20-1		28
N o-Xylene	<1.00	ug/L	1.00		1000 95-47-6		28
N p-Dichlorobenzene	<1.00	ug/L	1.00		75.0 MCL106-46-7		28
N Styrene	<1.00	ug/L	1.00		100 MCL100-42-8		28
N Tetrachloroethylene	<1.00	ug/L	1.00		5.00 MCL137-18-4		28
N Toluene	<1.00	ug/L	1.00		1000 108-88-3		28
N trans-1,2-Dichloroethylene	<1.00	ug/L	1.00		100 MCL136-48-5		28
N Trichloroethylene	<1.00	ug/L	1.00		5.00 MCL137-81-6		28
N Vinyl Chloride	<1.00	ug/L	1.00		2.00 MCL154-1-1		28
EPA 524.2.4.1	Prepared: 07/17/12	06/09/2016	11:03:01	Calculated: 07/17/12	06/09/2016	11:03:01	CAL
Parameter	Results	Units	RL	Flags	MLC	CL5	Route
N Xylenes, Total	<1.00	ug/L	1.00		10000 1338-26-7		28
EPA 524.2.4.1	Prepared: 07/17/12	06/09/2016	11:03:01	Calculated: 07/17/12	06/09/2016	11:03:01	CAL
Parameter	Results	Units	RL	Flags	MLC	CL5	Route
N Trichloroethanes	<0.001	mg/L	0.001		0.050		28

EPA 525.2.2	Prepared: 07/17/12	06/09/2016	13:00:00	Analyzed: 07/17/12	06/22/2016	03:09:00	KLB
Parameter	Results	Units	RL	Flags	MLC	CL5	Route
N Atrazine	<0.105	ug/L	0.105	X	2.00 MCL15912-44-8		31
N Atrazine	<0.105	ug/L	0.105		3.00 MCL1912-24-9		31

Corporate Shipping: 2600 DuBek Rd. Kilgore, TX 75642

Corporate: 2600 DuBek Road Kilgore TX 75642

756240 CoC Print Group 001 of 002



STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87776
Arizona	AZ2432	Nevada	IN00035
Arkansas	IN00035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-935
Florida*	E87776	Ohio	87776
Georgia	929	Oklahoma	D5508
Hawaii	IN035	Oregon (Primary AB)*	4074-001
Idaho	IN00035/E87776	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAC00343
Indiana Chemistry	C-71-01	South Carolina	93005
Indiana Microbiology	M-78-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704/187-15-8
Kentucky	80058	Texas/TCEQ	TX207
Louisiana*	LA160002	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9928	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	850		

*NELAP/TNI Recognized Accreditation Bodies



NELAP Accredited #T104704201

www.ana-lab.com

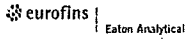
Form #P0URES Created 10/13/2014 v1.2

L25K10011 10/16/2014

Revision date: 04/14/2016

Page 2 of 7

750240 CoC Print Group 001 of 002



LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

This report may not be reproduced, except in full, without written approval from EEA.



Ann-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ann-lab.com

Printed: 09/09/2016

Results

1512471 TCEQ 250 Received: 08/03/2016
 Drinking Water Collected by: DQJ Affiliates: Ann-Lab 08/02/2016 10:15:00

Asbestos subcollected to EMCL. Diquat, Endothal, Dioxin, and PCB subcollected to Eurofins Labs

EPA 525.2.2	Prepared	07/29/16	08/03/2016	15:00:00	Analyst	07/29/16	08/21/2016	01:09:00	ELR
Parameter	Results	Units	RL	Flags	MUL	CAS	Results		
N Benz(a)pyrene	<0.105	ug/L	0.105	SD	0.200	50-32-4	31		
N Bis(2-ethylhexyl)adipate	<0.105	ug/L	0.105	D	400 MCL19-23-1		31		
N Bis(2-ethylhexyl)phthalate	0.578	ug/L	0.105	BK	6.00 MCL117-81-7		31		
Z Endrin	<0.105	ug/L	0.105		2.00 MCL23-20-8		31		
N gamma-BCH (Lindane)	<0.105	ug/L	0.105		0.200	50-83-9	31		
N Heptachlor	<0.105	ug/L	0.105		0.400	76-44-8	31		
N Heptachlor epoxide	<0.105	ug/L	0.105		0.200	1824-57-3	31		
N Hexachlorobenzene	<0.105	ug/L	0.105		1.00 MCL119-74-1		31		
N Hexachlorocyclopentadiene	<0.105	ug/L	0.105	SD	50.0 MCL37-47-4		31		
N Methoxychlor	<0.105	ug/L	0.105		40.0 MCL32-43-5		31		
N Simazine	<0.105	ug/L	0.105		4.00 MCL32-34-9		31		

EPA 531.1.3.1	Prepared	07/27/16	08/06/2016	16:06:00	Analyst	07/27/16	08/06/2016	16:06:00	ELR
Parameter	Results	Units	RL	Flags	MUL	CAS	Results		
N Carbofuran	<10.0	ug/L	10.0		40.0 MCL153-66-2		23		
N Diazinyl	<10.0	ug/L	10.0		200 MCL3135-21-0		23		

EPA 547	Prepared	07/27/16	08/16/2016	17:26:00	Analyst	07/27/16	08/16/2016	17:26:00	ELR
Parameter	Results	Units	RL	Flags	MUL	CAS	Results		

Corporate Shipping: 2609 DeSoto Rd. Kilgore, TX 75662

Corporate: 2609 DeSoto Road Kilgore TX 75662



NELAP accredited #T104704201



Ann-Lab Corp. P.O. Box 9000 Kilgore, TX 75663
 Phone 903-984-0551 FAX 903-984-5914 e-Mail corp@ana-lab.com
 Dr. Bruce C. Wood Director of Operations
 Printed: 09/09/2016 Page 7 of 11

Results

Report Page 8 of 48

Report Page 41 of 48

Sample ID	Parameter	Prepared	Results	Units	RL	Flags	MCL	CAS	Scale
1512471	TCEQ 290 Drinking Water	08/03/2016							
EPA 547	Parameter Glyphosate	08/16/2016	<10.0	ug/L	10.0		100 MCL Primary Standard		25
EPA 548.1 - Subcontract	Parameter Endothal Subcontract	08/25/2016	See attached				0.100 EHL1 MCL Primary Standard		
EPA 549.2 - Subcontract	Parameter Diquat (DWT) Subcontract	08/25/2016	See attached				0.020 EHL1 MCL Primary Standard		
SM 2150 B	Parameter DDB	08/04/2016	Not Observed	TON	1.6		3.00 Secondary Standard		01
SM 2120 B-1993	Parameter Color	08/10/2016	10	PCU Units	5.0		15.0 Secondary Standard		09
SM 2320 B-97	Parameter Total Alkalinity (as CaCO3)	08/04/2016	232	mg/L	140				02
SM 2330 B-1993	Parameter Langlier Saturation Index @22C	08/05/2016	-4.198	Units					
SM 2540 C-97	Parameter Total Dissolved Solids	08/24/2016	630	mg/L	100		500 Secondary Standard		01

Corporate Shipping: 2608 Dudley Rd, Kilgore, TX 75662

Corporate: 2608 Dudley Road Kilgore TX 75662



LDSCLab v1.10 16 1254

www.ana-lab.com

Form rpt/ROUTISS Created: 10/13/2004 v1.2

1
2
3
4
5

8 of 10

750240 CoC Print Group 001 of 002

orderID: 151405639



P.O. Box 9000 • KILGORE, TEXAS 75663-9000 • 903-984-0551 • 903-984-5914
 Quality Environmental Chemistry Since 1965
 NELAP-accredited #02008

151605639

Date 8-3-16

EMSL Analytical, Inc
 5950 Fairbanks North Houston Rd
 Houston, TX 77040
 713-886-3635

Please analyze the following samples:

Sample Identification	Matrix	Date Taken	Time Taken	TAT	Testing Required
1512471	DW	8/3/16	1018	Routine	Asbestos

___ Require RUSH status (24 Hour Turn Around Time) ___ Require E-mail as soon as completed (skewer@ana-lab.com)

If you have any questions about the testing, contact Bill Peery or Skeeter Ludwig at 903-984-0551.

Sincerely,

Skeeter Ludwig
 Operations Manager

Release/Accept	Date	Time	Print Name	Signature	Affiliation
Release/Accept	08/03/16	1700	LAWRENCE HANCOCK	[Signature]	ANA-LAB
Release/Accept	8/4/16		KEVIN A. COOPER	[Signature]	EMSL
Release/Accept					

178-110
 4.4/-0.1/4.3

Conc. - 1.50



1
2
3
4
5



Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663
 Phone 903.984.0551 FAX 903.984.5914 e-Mail corp@ana-lab.com
 Employee Contact Subject Client and Reference #
 Printed: 09/09/2016 Page 8 of 11

Results

7 of 10

750240 CoC Print Group C01 of C02



EMSL Analytical, Inc.
 6950 Fairbanks N. Houston Rd., Houston, TX 77040
 Phone/Fac: (713) 885-3033 / (713) 885-3045
 Email: www.EMSL.com / houston@emsl.com

EMSL Order ID: 15160539
 Customer ID: ANA12
 Customer PO:
 Project ID:

Alt: Steeler Ludwig
 ANA Lab, Corp.
 PO Box 9000
 Kilgore, TX 75663-9000
 Phone: (903) 984-0551
 Fax: (903) 984-5914
 Collected: 08/02/2016
 Received: 08/04/2016
 Analyzed: 08/15/2016

Test Report: Determination of Asbestos Structures >10µm in Drinking Water
 Performed by the 100.2 Method (EPA 600/R-84/134)

Sample ID Client ID/REF	Sample Filter/Date	Original Sample Vol. Filtered (µl)	Filter Area (cm²)	Area Analyzed (cm²)	ASBESTOS				
					Asbestos Type	Fibers Detected	Analytical Sensitivity	Concentration (NELP-fibers/liter per liter)	Confidence Limit
1512471 15160543-001	8/2/16 8/2/16 PM	100	1398	0.076	None Detected	ND	0.17	<0.17	0.00 - 8.83

Analyzed by:
 Jessica Blake (1)

Michelle Leggett
 Michelle Leggett, Laboratory Manager
 or Other Approved Signatory

Any questions please contact Michelle Leggett.

Printed Report from 08/15/2016 17:56:32

Sample integrity and storage conditions for the above samples have been checked to be in compliance with NELAP rules. No issues were noted. This report reflects only the data from the samples analyzed and does not include any other data.

Samples analyzed by EMSL Analytical, Inc. Houston, TX licensed by Texas Commission on Env. Quality

See Report Form 903-128-15 Revised 07/27/14 Section 1

Page 1 of 1

Sample ID	Parameter	Prepared	Results	Units	RL	Flags	Method	Class	Revised	Limit
1512471	TCEQ 200	08/02/2016	08/02/2016	08/02/2016	08/02/2016	08/02/2016	08/02/2016	08/02/2016	08/02/2016	08/02/2016
Drinking Water		Collected by: DSI	Application: ANA-Lab	08/02/2016	10:15:00					
Asbestos subcategory in EMSL: Diquat, Endosulfan, Dieldrin, and PCB subcategory to Eurasia Extra										
SM 4500-CN E-1999	Parameter: Cyanide	Prepared: 07/31/16	08/05/2016	11:00:00	Analyzed: 07/31/16	08/05/2016	12:16:00	MLC		
		Results: 0.0228	mg/L	0.035	J	0.200	MLC	Primary Standard		
SM 4500-CN E-1999	Parameter: Cyanide After Chlorination	Prepared: 07/31/16	08/05/2016	11:00:00	Analyzed: 07/31/16	08/05/2016	14:51:03	MLC		
		Results: <0.005	mg/L	0.015				Primary Standard		
SM 4500-CN G-1999	Parameter: Cyanide - Available/Amenable	Prepared: 08/02/2016	08/05/2016	09:05:01	Calculated: 08/02/2016	08/05/2016	09:05:01	MLC		
		Results: 0.0003	mg/L	0.035	J	0.200	MLC	Primary Standard		
SM 4500-H+ B-2000	Parameter: Laboratory pH	Prepared: 07/31/16	08/05/2016	16:10:00	Analyzed: 07/31/16	08/05/2016	16:10:00	MLC		
		Results: 8.5 @ 20C	SU	2.00		0.50		Secondary Standard		
SM 4500-S2 D-2000	Parameter: Sulfide	Prepared: 07/31/16	08/07/2016	17:09:00	Analyzed: 07/31/16	08/07/2016	17:09:00	MLC		
		Results: 0.0255	mg/L	0.015				Primary Standard		
SM 5540 C-2000	Parameter: HBA8 (Surfactant/Foaming Agents)	Prepared: 07/31/16	08/05/2016	09:35:00	Analyzed: 07/31/16	08/05/2016	09:35:00	MLC		
		Results: <0.20	mg/L	0.20		0.500		Secondary Standard		
SM 9223 B (Colturb-18)-07	Parameter: Total Coliform Colturb 18	Prepared: 07/31/16	08/04/2016	10:40:00	Analyzed: 07/31/16	08/04/2016	10:40:00	MLC		
		Results: NEGATIVE	in 100 mL			0 MCL		Primary Standard		
SM 9223 B (Colturb-18)-07	Parameter: E-coli Colturb-18	Prepared: 07/31/16	08/04/2016	10:40:00	Analyzed: 07/31/16	08/04/2016	10:40:00	MLC		
		Results: NEGATIVE	in 100 mL			0 MCL		Primary Standard		

Corporate Shipping: 2600 Dallas Rd. Kilgore, TX 75662

Client use: 2600 Dallas Road Kilgore TX 75662



NELAP Accredited FT104704201

LAB Form 10/15/12/14

www.ana-lab.com

Form 10/15/12/14 Rev. 10/15/2014 v1.2



1
2
3
4
5

1
2
3
4
5

750240 CoC Print Group 001 of 002

Subcontract	Parameter	Prepared	Number	Unit	Analysed	Flags	Method	Result
z	Asbestos-liquid (Election Micros)	06/18/2016	See attached		05/18/2016		7.00 MCL/MSL Houston Primary Standard	

Sample Preparation

Sample ID	Parameter	Prepared	Number	Unit	Analysed	Flags	Method	Result
1512471	TCEQ 290	06/03/2016	14.58.00		06/03/2016		CCP	
z	Bottle pH	<2	SU					18
z	SUB Shipped	06/04/2016	14.19.32	Calculated	06/04/2016		CAL	
EPA 200.2.2.0		07/11/11	06/04/2016	10.15.00	07/11/11		06/04/2016	10.15.00 TES
N	Liquid Metals Digestion	50.50	ml					18
EPA 245.1.3		07/10/14	05/04/2016	06.40.00	07/10/14		05/04/2016	06.40.00 ALB
N	Mercury Liquid Metals Digestion	50.25	ml					18
EPA 245.1.3		07/10/14	05/08/2016	14.11.00	07/10/14		05/08/2016	14.11.00 ALB
N	Mercury Liquid Metals Digestion	50.25	ml					18
EPA 503.3.1		07/10/14	04/04/2016	07.30.00	07/10/14		04/04/2016	07.30.00 S&H
	GCXL using chlordanes/hexachlorocyclopentadiene	10.984	ml					07
EPA 503.3.1		07/10/14	06/04/2016	07.10.00	07/10/14		06/04/2016	19.50.00 SLC
N	Chlordane, Toxaphene Esp	Entered						32
EPA 515.1.4		07/10/14	05/11/2016	11.00.00	07/10/14		05/11/2016	11.00.00 S&H
N	Herbicides Extraction/Derivative	10.980	ml					09
EPA 515.1.4		07/10/14	05/11/2016	11.00.00	07/10/14		05/11/2016	19.11.00 E&H
N	Drinking Water Herbicides	Entered						35

Corporate Midway: 2600 Dauby Rd. Kilgore, TX 75662

Corporate Midway: 2600 Dauby Road Kilgore TX 75662



NELAP-accredited #T104704201



Date 8-3-16

EMSL Analytical, Inc
5950 Fairbanks North Houston Rd
Houston, TX 77040
713-680-3635

Please analyze the following samples:

Sample Identification	Matrix	Date Taken	Time Taken	TAT	Testing Required
1512471	DW	8/3/16	1018	Routine	Asbestos

Require RUSH status (24 Hour Turn Around Time) Require E-mail as soon as completed (sludwig@ana-lab.com)

If you have any questions about the testing, contact Bill Peery or Skeeter Ludwig at 903-984-0551.

Sincerely,

Skeeter Ludwig
Operations Manager

Release/Accept	Date	Time	Print Name	Signature	Affiliation
Release/Accept					Ana-Lab
Release/Accept					
Release/Accept					





P.O. Box 9000 • KILGORE, TEXAS 75663-9000 • 903/984-0551 • 903/984-5914
 Quality Environmental Chemistry Since 1965
 NELAP-accredited #02608

Date 8/3/16

Eurofins Eton Analytical
 110 Hill St
 South Bend, IN 46617
 800/332-4345

Please analyze the following samples:

Sample Identification	Matrix	Date Taken	Time Taken	TAT	Testing Required
1612471	DW	8/3/16	1015	Routine	2378-tetrachlorodibenzo-p-dioxin DW PCBs Endosulfan Diquat

Require RUSH status (24 Hour Turn Around Time) Require E-mail as soon as completed (slaster@ana-lab.com)

If you have any questions about the testing, contact Bill Peery or Skeeter Ludwig at 903-984-0651.

Sincerely,

Skeeter Ludwig
 Operations Manager

Release/Accept	Date	Time	Print Name	Signature	Affiliation
Release/Accept					Ana-Lab
Release/Accept					
Release/Accept					



Results

Sample ID	Method	Prepared	Received	Analyzed	Released	Result
1512471	TCEQ 290		08/03/2016			
EPA 524.2 4.1		Prepared: 075742 08/06/2016 15:49:00		Analyzed: 075702 08/06/2016 15:49:00		RSL
N EPA Primary DW List Volatiles		Entered				28
EPA 525.2 2		Prepared: 074912 08/03/2016 11:00:00		Analyzed: 074902 08/03/2016 15:00:00		CR1
N Solid Phase Extraction 815.2 SV		LMS2 ml				08
EPA 525.2 2		Prepared: 074932 08/03/2016 15:00:00		Analyzed: 078105 08/21/2016 01:09:00		KLB
N EPA Primary DW ABIN/Pest		Entered				31
EPA 631.1 3.1		Prepared: 073725 08/03/2016 16:06:00		Analyzed: 073725 08/06/2016 16:06:00		RSL
N Oxemyl & Carboheren Expansion		Entered				23
EPA 547		Prepared: 077235 08/16/2016 17:26:00		Analyzed: 077235 08/16/2016 17:26:00		RSL
N Glyphosate Expansion		Entered				25
SM 2510 C-97		Prepared: 074975 08/03/2016 14:26:10		Analyzed: 074975 08/03/2016 14:26:10		TR2
N Total Dissolved Solids Started		Started				
SM 4500-CM ⁻ C-1999		Prepared: 075335 08/03/2016 11:00:00		Analyzed: 075335 08/03/2016 11:00:00		GR4
N CN Dist After Chlorination		25.50 ml				16
SM 4500-CM ⁻ E-1999		Prepared: 075329 08/03/2016 09:45:00		Analyzed: 075330 08/03/2016 09:45:00		GR4
N Cyanide Distillation		25.50 ml				16
SM 9223 B (Coll/Std-16)-97		Prepared: 075148 08/03/2016 15:20:00		Analyzed: 075148 08/03/2016 15:20:00		SDM1
N Total Coliform Set Started		STARTED				10





Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

Environmental Chemical Instrumentation Contract Preparation

Results

Printed: 09/09/2016

Page 11 of 11

Report Page 12 of 48

Report Page 37 of 48

Qualifiers:

- J - Analyte detected below quantitation limit
- D - Duplicate RPD was higher than expected
- S - Standard reads lower than desired
- B - Analyte detected in the associated method blank
- X - Standard reads higher than desired.

We report results on a 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-Lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate #125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, L.E.L.A.P.) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N - NELAC, or x - not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC. RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Level (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "$^$" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Barney



Paul Zhang, Ph.D., Quality Director

Corporate Shipping 2600 Dusley Rd. Kilgore, TX 75662

Corporate 2600 Dusley Road Kilgore TX 75662



NELAP-accredited #T104704201

www.ana-lab.com

Form 999/RCUES Created 10/13/2014 v1.2

LDSC Item # 101361234



Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com
 Environmental Chemical Instrumentation Contract Preparation
 OGC Printed 08/02/2016 Page 4 of 4

Chain of Custody

GRA1 -A
102

Phone 903/962-5601
Fax 903/962-3363

City of Grand Saline
Carol Acker
Water & Sewer Dept.
132 E. Frank St.
Grand Saline, TX 75140-1824

VORX DW Vial - HCl add/5%

DW Vial - HCl add/5% Quality Control - 3/16

Collected By: *Paul Zhang* Date: _____ Time: _____ Analyzed By: _____ Date: _____ Time: _____
 Remarks: _____ Units: _____ Temp: _____ C Duplicate: _____ Units: _____ Temp: _____ C

1 N/AH for pH 7.13 Purity/Res 330 ml/Analog
 N CH4 Cyside SM 4500-CH E-199
 N CH4 Cyside - Available/Analog SM 4500-CH G-199

Date	Time	Prepared	Relinquished	Received
8/31/16	14:30	<i>Paul Zhang</i>	<i>Christi Parker</i>	<i>Christi Parker</i>
		<i>Paul Zhang</i>		

Sample Received on Ice? Yes No Method of Storage: Upr Inv Packed Low Temp Other
 Cooler/Refrigerator Secured? Yes No Tracking/Shipping # _____
 The accredited lab must be accredited by A, I, L, A, N, NELAC, or a not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these services at no charge to our clients. Conditions of service are available for download from the website page at <http://www.ana-lab.com>. See Lab personnel collect samples as specified by Ana-Lab SOP #000011.

Comments: Flow was too high out of 3" pipe. Had to fill vials and some other bottles out of a clean glass jar. D.L.C.

Corporate Shipping: 2600 Dusley Rd. Kilgore, TX 75662
 005057 CF
 005881 CF *D.L.C.*
 003888 CF
 NELAP-accredited #T104704201
 www.ana-lab.com
 Form 999/RCUES Created 08/28/2014 v1.6