BW - ___004___

WATER QUALITY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Wayne Price
Price LLC
312 Encantado Ridge Ct. NE
Rio Rancho, NM, 87124

Report Date: July 31, 2014

Work Order: 14072110

Project Location: Buckeye, NM-Tatum, NM
Project Name: Quarterly Samples
Project Number: Buckeye Station-Tatum Station

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
368929	BS FW	water	2014-07-17	13:05	2014-07-17
368930	BS BW	water	2014-07-17	13:08	2014-07-17
368931	TS FW	water	2014-07-17	13:59	2014-07-17
368932	TS BW	water	2014-07-17	14:03	2014-07-17

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 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director

Report Contents

Case Narrative

Samples for project Quarterly Samples were received by TraceAnalysis, Inc. on 2014-07-17 and assigned to work order 14072110. Samples for work order 14072110 were received intact at a temperature of 1.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	96480	2014-07-29 at 16:46	114086	2014-07-29 at 16:46
Density	ASTM D854-92	96429	2014-07-28 at 11:00	114019	2014-07-28 at 11:15
Na, Dissolved	S 6010C	96355	2014-07-24 at 13:18	114016	2014-07-25 at 15:56
pH	SM 4500-H+	96321	2014-07-23 at 10:49	113880	2014-07-23 at 10:50
TDS	SM 2540C	96388	2014-07-23 at 11:00	113960	2014-07-23 at 11:00
TDS	SM 2540C	96452	2014-07-25 at 11:40	114047	2014-07-25 at 11:40

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14072110 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 368929 - BS FW

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	114086	Date Analyzed:	2014-07-29	Analyzed By:	JR
Prep Batch:	96480	Sample Preparation:	2014-07-29	Prepared By:	JR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		1,4,6	**341**	mg/L	10	2.50

Sample: 368929 - BS FW

Laboratory:	Lubbock				
Analysis:	Density	Analytical Method:	ASTM D854-92	Prep Method:	N/A
QC Batch:	114019	Date Analyzed:	2014-07-28	Analyzed By:	CF
Prep Batch:	96429	Sample Preparation:	2014-07-28	Prepared By:	CF

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Density			**0.995**	g/ml	1	0.00

Sample: 368929 - BS FW

Laboratory:	Lubbock				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	113880	Date Analyzed:	2014-07-23	Analyzed By:	AT
Prep Batch:	96321	Sample Preparation:	2014-07-23	Prepared By:	AT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
pH		2,3,7,8	**7.62**	s.u.	1	2.00

Sample: 368929 - BS FW

Laboratory:	Lubbock				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	114047	Date Analyzed:	2014-07-25	Analyzed By:	CF
Prep Batch:	96452	Sample Preparation:	2014-07-25	Prepared By:	CF

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Dissolved Solids	Qr	2,3,5,7,8	**864**	mg/L	20	2.50

Sample: 368930 - BS BW

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	114086	Date Analyzed:	2014-07-29	Analyzed By:	JR
Prep Batch:	96480	Sample Preparation:	2014-07-29	Prepared By:	JR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		1,4,6	**200000**	mg/L	5000	2.50

Sample: 368930 - BS BW

Laboratory:	Lubbock				
Analysis:	Density	Analytical Method:	ASTM D854-92	Prep Method:	N/A
QC Batch:	114019	Date Analyzed:	2014-07-28	Analyzed By:	CF
Prep Batch:	96429	Sample Preparation:	2014-07-28	Prepared By:	CF

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Density			**1.20**	g/ml	1	0.00

Sample: 368930 - BS BW

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010C	Prep Method:	S 3005A
QC Batch:	114016	Date Analyzed:	2014-07-25	Analyzed By:	LM
Prep Batch:	96355	Sample Preparation:	2014-07-24	Prepared By:	LM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Dissolved Sodium		3,5,7,8	**149000**	mg/L	10000	1.00

Sample: 368930 - BS BW

Laboratory:	Lubbock				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	113880	Date Analyzed:	2014-07-23	Analyzed By:	AT
Prep Batch:	96321	Sample Preparation:	2014-07-23	Prepared By:	AT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
pH		2,3,7,8	**6.90**	s.u.	1	2.00

Sample: 368930 - BS BW

Laboratory:	Lubbock				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	113960	Date Analyzed:	2014-07-23	Analyzed By:	CF
Prep Batch:	96388	Sample Preparation:	2014-07-23	Prepared By:	CF

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Dissolved Solids		2,3,5,7,8	**295000**	mg/L	2000	2.50

Sample: 368931 - TS FW

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	114086	Date Analyzed:	2014-07-29	Analyzed By:	JR
Prep Batch:	96480	Sample Preparation:	2014-07-29	Prepared By:	JR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		1,4,6	**76.8**	mg/L	10	2.50

Sample: 368931 - TS FW

Laboratory:	Lubbock				
Analysis:	Density	Analytical Method:	ASTM D854-92	Prep Method:	N/A
QC Batch:	114019	Date Analyzed:	2014-07-28	Analyzed By:	CF
Prep Batch:	96429	Sample Preparation:	2014-07-28	Prepared By:	CF

continued . . .

sample 368931 continued . . .

Parameter	Flag	Cert	Result	Units	Dilution	RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Density			**0.994**	g/ml	1	0.00

Sample: 368931 - TS FW

Laboratory:	Lubbock				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	113880	Date Analyzed:	2014-07-23	Analyzed By:	AT
Prep Batch:	96321	Sample Preparation:	2014-07-23	Prepared By:	AT

Parameter	Flag	Cert	Result	Units	Dilution	RL
pH		2,3,7,8	**9.30**	s.u.	1	2.00

Sample: 368931 - TS FW

Laboratory:	Lubbock				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	113960	Date Analyzed:	2014-07-23	Analyzed By:	CF
Prep Batch:	96388	Sample Preparation:	2014-07-23	Prepared By:	CF

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Dissolved Solids		2,3,5,7,8	**639**	mg/L	10	2.50

Sample: 368932 - TS BW

Laboratory:	El Paso				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	114086	Date Analyzed:	2014-07-29	Analyzed By:	JR
Prep Batch:	96480	Sample Preparation:	2014-07-29	Prepared By:	JR

Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride		1,4,6	**17900**	mg/L	500	2.50

Sample: 368932 - TS BW

Laboratory:	Lubbock				
Analysis:	Density	Analytical Method:	ASTM D854-92	Prep Method:	N/A
QC Batch:	114019	Date Analyzed:	2014-07-28	Analyzed By:	CF
Prep Batch:	96429	Sample Preparation:	2014-07-28	Prepared By:	CF

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Density			**1.02**	g/ml	1	0.00

Sample: 368932 - TS BW

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010C	Prep Method:	S 3005A
QC Batch:	114016	Date Analyzed:	2014-07-25	Analyzed By:	LM
Prep Batch:	96355	Sample Preparation:	2014-07-24	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Dissolved Sodium		3,5,7,8	**11300**	mg/L	100	1.00

Sample: 368932 - TS BW

Laboratory:	Lubbock				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	113880	Date Analyzed:	2014-07-23	Analyzed By:	AT
Prep Batch:	96321	Sample Preparation:	2014-07-23	Prepared By:	AT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
pH		2,3,7,8	**6.21**	s.u.	1	2.00

Sample: 368932 - TS BW

Laboratory:	Lubbock				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	113960	Date Analyzed:	2014-07-23	Analyzed By:	CF
Prep Batch:	96388	Sample Preparation:	2014-07-23	Prepared By:	CF

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Dissolved Solids		2,3,5,7,8	**34600**	mg/L	1000	2.50

Method Blanks

Method Blank (1) QC Batch: 113960

QC Batch:	113960	Date Analyzed:	2014-07-23	Analyzed By:	CF
Prep Batch:	96388	QC Preparation:	2014-07-23	Prepared By:	CF

Parameter	Flag	Cert	MDL Result	Units	RL
Total Dissolved Solids		2,3,5,7,8	<2.50	mg/L	2.5

Method Blank (1) QC Batch: 114016

QC Batch:	114016	Date Analyzed:	2014-07-25	Analyzed By:	LM
Prep Batch:	96355	QC Preparation:	2014-07-24	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Dissolved Sodium		3,5,7,8	<0.0184	mg/L	1

Method Blank (1) QC Batch: 114019

QC Batch:	114019	Date Analyzed:	2014-07-28	Analyzed By:	CF
Prep Batch:	96429	QC Preparation:	2014-07-28	Prepared By:	CF

Parameter	Flag	Cert	MDL Result	Units	RL
Density			0.995	g/ml	

Method Blank (1) QC Batch: 114047

QC Batch:	114047	Date Analyzed:	2014-07-25	Analyzed By:	CF
Prep Batch:	96452	QC Preparation:	2014-07-25	Prepared By:	CF

Parameter	Flag	Cert	MDL Result	Units	RL
Total Dissolved Solids		2,3,5,7,8	<2.50	mg/L	2.5

Method Blank (1) QC Batch: 114086

QC Batch:	114086	Date Analyzed:	2014-07-29	Analyzed By:	JR
Prep Batch:	96480	QC Preparation:	2014-07-29	Prepared By:	JR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		1,4,6	<0.00680	mg/L	2.5

Duplicates

Duplicates (1) Duplicated Sample: 368940

QC Batch: 113880 | Date Analyzed: 2014-07-23 | Analyzed By: AT
Prep Batch: 96321 | QC Preparation: 2014-07-23 | Prepared By: AT

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	2,3,7,8	8.16	8.20	s.u.	1	0	20

Duplicates (1) Duplicated Sample: 369075

QC Batch: 113960 | Date Analyzed: 2014-07-23 | Analyzed By: CF
Prep Batch: 96388 | QC Preparation: 2014-07-23 | Prepared By: CF

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	2,3,5,7,8	381	380	mg/L	10	0	10

Duplicates (1) Duplicated Sample: 368932

QC Batch: 114019 | Date Analyzed: 2014-07-28 | Analyzed By: CF
Prep Batch: 96429 | QC Preparation: 2014-07-28 | Prepared By: CF

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Density	1.02	1.02	g/ml	1	0	20

Duplicates (1) Duplicated Sample: 369374

QC Batch: 114047 | Date Analyzed: 2014-07-25 | Analyzed By: CF
Prep Batch: 96452 | QC Preparation: 2014-07-25 | Prepared By: CF

Param				Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	Qr	Qr	2,3,5,7,8	2660	2300	mg/L	50	14	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 113960 | Date Analyzed: 2014-07-23 | Analyzed By: CF
Prep Batch: 96388 | QC Preparation: 2014-07-23 | Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		2,3,5,7,8	1000	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		2,3,5,7,8	1040	mg/L	1	1000	<2.50	104	90 - 110	4	10

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: 114016 | Date Analyzed: 2014-07-25 | Analyzed By: LM
Prep Batch: 96355 | QC Preparation: 2014-07-24 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium		3,5,7,8	49.5	mg/L	1	52.5	<0.0184	94	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium		3,5,7,8	50.2	mg/L	1	52.5	<0.0184	96	85 - 115	1	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: 114047 | Date Analyzed: 2014-07-25 | Analyzed By: CF
Prep Batch: 96452 | QC Preparation: 2014-07-25 | Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		2,3,5,7,8	972	mg/L	1	1000	<2.50	97	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		2,3,5,7,8	1020	mg/L	1	1000	<2.50	102	90 - 110	5	10

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: 114086 | Date Analyzed: 2014-07-29 | Analyzed By: JR
Prep Batch: 96480 | QC Preparation: 2014-07-29 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	25.2	mg/L	1	25.0	<0.00680	101	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	25.1	mg/L	1	25.0	<0.00680	100	90 - 110	0	20

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

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 368864

QC Batch: 114016 | Date Analyzed: 2014-07-25 | Analyzed By: LM
Prep Batch: 96355 | QC Preparation: 2014-07-24 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium		3,5,7,8	4530	mg/L	10	525	4100	82	75 - 125

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium		3,5,7,8	4540	mg/L	10	525	4100	84	75 - 125	0	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: 368931

QC Batch: 114086 | Date Analyzed: 2014-07-29 | Analyzed By: JR
Prep Batch: 96480 | QC Preparation: 2014-07-29 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,4,6	1480	mg/L	55.6	1390	76.8	101	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,4,6	1480	mg/L	55.6	1390	76.8	101	80 - 120	0	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 113880 Date Analyzed: 2014-07-23 Analyzed By: AT

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		2,3,7,8	s.u.	7.00	7.01	100	98 - 102	2014-07-23

Standard (CCV-1)

QC Batch: 113880 Date Analyzed: 2014-07-23 Analyzed By: AT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		2,3,7,8	s.u.	7.00	7.01	100	98 - 102	2014-07-23

Standard (ICV-1)

QC Batch: 114016 Date Analyzed: 2014-07-25 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		3,5,7,8	mg/L	51.0	48.8	96	90 - 110	2014-07-25

Standard (CCV-1)

QC Batch: 114016 Date Analyzed: 2014-07-25 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		3,5,7,8	mg/L	51.0	49.9	98	90 - 110	2014-07-25

Standard (CCV-1)

QC Batch: 114086 Date Analyzed: 2014-07-29 Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	24.8	99	90 - 110	2014-07-29

Standard (CCV-2)

QC Batch: 114086 Date Analyzed: 2014-07-29 Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.0	100	90 - 110	2014-07-29

Standard (CCV-3)

QC Batch: 114086 Date Analyzed: 2014-07-29 Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,4,6	mg/L	25.0	25.2	101	90 - 110	2014-07-29

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-103	El Paso
2	PJLA	L14-93	Lubbock
3	Kansas	Kansas E-10317	Lubbock
4	LELAP	LELAP-02002	El Paso
5	LELAP	LELAP-02003	Lubbock
6	NELAP	T104704221-12-3	El Paso
7	NELAP	T104704219-14-10	Lubbock
8		2013-083	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.

F	Description
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 14072110

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: PRICE LLC
Phone #: 505-715-2809
Address: (Street, City, Zip) 312 Enchanted Ridge Court NE Rio Rancho 87124 NM
Fax #: 505-892-6643
Contact Person: WAYNE PRICE
E-mail: waynepriceTTO@earthlink.net
Invoice to: (If different from above) Wassonhund 1623 S. Main Lovington NM 88260
Project #: Buckeye Station Tatum Station
Project Name: Quarterly Samples
Project Location (including state): Buckeye NM, Tatum NM
Sampler Signature: LWPdR

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	PH, SO4, TDS, Chlorides	Sodium, Na	Density / BW 7/18/14	Turn Around Time if different from standard	Hold
368924	BS FW	1	1L Plastic	X								X		7/17/14	1:06PM																		X		X		
930	BS BW	1	1L Plastic	X								X		7/17/14	1:08PM																		X	X	X		
~~931~~																																							
~~932~~ 931	TS FW	1	1L Plastic	X								X		7/17/14	1:59PM																		X		X		
932	TS BW	1	1L Plastic	X								X		7/17/14	2:03PM																		X	X	X		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
LWPdR	PRICE LLC	7/17/14	4:45PM	John Garcia	B&C	7-17-14	4:35
				AT	TA	7/19/14	9:45

INST / OBS / COR temperatures: 1 °C / 1.1 °C / -.5 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review BW

REMARKS: NA

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

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

Carrier # _____

ORIGINAL COPY

Summary Report

Wayne Price
Price LLC
312 Encantado Ridge Ct. NE
Rio Rancho, NM 87124

Report Date: July 31, 2014

Work Order: 14072110

Project Location: Buckeye, NM-Tatum, NM
Project Name: Quarterly Samples
Project Number: Buckeye Station-Tatum Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
368929	BS FW	water	2014-07-17	13:05	2014-07-17
368930	BS BW	water	2014-07-17	13:08	2014-07-17
368931	TS FW	water	2014-07-17	13:59	2014-07-17
368932	TS BW	water	2014-07-17	14:03	2014-07-17

Sample: 368929 - BS FW

Param	Flag	Result	Units	RL
Chloride		**341**	mg/L	2.5
Density		**0.995**	g/ml	
pH		**7.62**	s.u.	2
Total Dissolved Solids	Qr	**864**	mg/L	2.5

Sample: 368930 - BS BW

Param	Flag	Result	Units	RL
Chloride		**200000**	mg/L	2.5
Density		**1.20**	g/ml	
Dissolved Sodium		**149000**	mg/L	1
pH		**6.90**	s.u.	2
Total Dissolved Solids		**295000**	mg/L	2.5

Sample: 368931 - TS FW

Param	Flag	Result	Units	RL
Chloride		**76.8**	mg/L	2.5
Density		**0.994**	g/ml	
pH		**9.30**	s.u.	2
Total Dissolved Solids		**639**	mg/L	2.5

Sample: 368932 - TS BW

Param	Flag	Result	Units	RL
Chloride		**17900**	mg/L	2.5
Density		**1.02**	g/ml	
Dissolved Sodium		**11300**	mg/L	1
pH		**6.21**	s.u.	2
Total Dissolved Solids		**34600**	mg/L	2.5

Summary Report

Wayne Price
Price LLC
312 Encantado Ridge Ct. NE
Rio Rancho, NM 87124

Report Date: July 31, 2014

Work Order: 14072110

Project Location: Buckeye, NM-Tatum, NM
Project Name: Quarterly Samples
Project Number: Buckeye Station-Tatum Station

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
368929	BS FW	water	2014-07-17	13:05	2014-07-17
368930	BS BW	water	2014-07-17	13:08	2014-07-17
368931	TS FW	water	2014-07-17	13:59	2014-07-17
368932	TS BW	water	2014-07-17	14:03	2014-07-17

Sample: 368929 - BS FW

Param	Flag	Result	Units	RL
Chloride		**341**	mg/L	2.5
Density		**0.995**	g/ml	
pH		**7.62**	s.u.	2
Total Dissolved Solids	Qr	**864**	mg/L	2.5

Sample: 368930 - BS BW

Param	Flag	Result	Units	RL
Chloride		**200000**	mg/L	2.5
Density		**1.20**	g/ml	
Dissolved Sodium		**149000**	mg/L	1
pH		**6.90**	s.u.	2
Total Dissolved Solids		**295000**	mg/L	2.5

Sample: 368931 - TS FW

Param	Flag	Result	Units	RL
Chloride		**76.8**	mg/L	2.5
Density		**0.994**	g/ml	
pH		**9.30**	s.u.	2
Total Dissolved Solids		**639**	mg/L	2.5

Sample: 368932 - TS BW

Param	Flag	Result	Units	RL
Chloride		**17900**	mg/L	2.5
Density		**1.02**	g/ml	
Dissolved Sodium		**11300**	mg/L	1
pH		**6.21**	s.u.	2
Total Dissolved Solids		**34600**	mg/L	2.5

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Lester Waynce Price Jr.
Price LLC
312 Encantado Ridge Ct. NE
Rio Rancho, NM, 87124

Report Date: February 17, 2015

Work Order: 15012306

Project Location: Buckeye, NM
Project Name: Brine Well
Project Number: Brine Well-Buckeye

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
385130	Fresh	water	2015-01-16	15:51	2015-01-21
385131	Brine	water	2015-01-16	14:10	2015-01-21

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 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

Case Narrative

Samples for project Brine Well were received by TraceAnalysis, Inc. on 2015-01-21 and assigned to work order 15012306. Samples for work order 15012306 were received intact at a temperature of 0.3 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	100982	2015-02-16 at 12:00	119410	2015-02-16 at 12:53
Na, Dissolved	S 6010C	100546	2015-01-27 at 17:40	119127	2015-02-06 at 09:23
pH	SM 4500-H+	100544	2015-01-27 at 04:00	118893	2015-01-27 at 16:44
Specific Gravity	ASTM D1429-95	100533	2015-01-27 at 13:00	118885	2015-01-27 at 13:10
TDS	SM 2540C	100553	2015-01-26 at 09:00	118905	2015-01-26 at 17:00

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15012306 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 385130 - Fresh

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	119410	Date Analyzed:	2015-02-16	Analyzed By:	RL
Prep Batch:	100982	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	H	1,2,3,4,5	**338**		mg/L	10	2.50

Sample: 385130 - Fresh

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010C	Prep Method:	S 3005A
QC Batch:	119127	Date Analyzed:	2015-02-06	Analyzed By:	RR
Prep Batch:	100546	Sample Preparation:	2015-01-27	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Dissolved Sodium	Qs	2,3,4,5	**221**		mg/L	1	1.00

Sample: 385130 - Fresh

Laboratory:	Lubbock				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	118893	Date Analyzed:	2015-01-27	Analyzed By:	AT
Prep Batch:	100544	Sample Preparation:	2015-01-27	Prepared By:	AT

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
pH		1,2,4,5	**8.03**		s.u.	1	2.00

Sample: 385130 - Fresh

Laboratory:	Lubbock				
Analysis:	Specific Gravity	Analytical Method:	ASTM D1429-95	Prep Method:	N/A
QC Batch:	118885	Date Analyzed:	2015-01-27	Analyzed By:	CF
Prep Batch:	100533	Sample Preparation:	2015-01-27	Prepared By:	CF

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Specific Gravity			**0.9918**		g/ml	1	0.000

Sample: 385130 - Fresh

Laboratory:	Lubbock				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	118905	Date Analyzed:	2015-01-26	Analyzed By:	RL
Prep Batch:	100553	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Dissolved Solids		1,2,3,4,5	**806**		mg/L	20	2.50

Sample: 385131 - Brine

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	119410	Date Analyzed:	2015-02-16	Analyzed By:	RL
Prep Batch:	100982	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	H	1,2,3,4,5	**106000**		mg/L	5000	2.50

Sample: 385131 - Brine

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010C	Prep Method:	S 3005A
QC Batch:	119127	Date Analyzed:	2015-02-06	Analyzed By:	RR
Prep Batch:	100546	Sample Preparation:	2015-01-27	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Dissolved Sodium	Qs	2,3,4,5	**81300**		mg/L	1000	1.00

Sample: 385131 - Brine

Laboratory:	Lubbock				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	118893	Date Analyzed:	2015-01-27	Analyzed By:	AT
Prep Batch:	100544	Sample Preparation:	2015-01-27	Prepared By:	AT

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
pH		1,2,4,5	**7.12**		s.u.	1	2.00

Sample: 385131 - Brine

Laboratory:	Lubbock				
Analysis:	Specific Gravity	Analytical Method:	ASTM D1429-95	Prep Method:	N/A
QC Batch:	118885	Date Analyzed:	2015-01-27	Analyzed By:	CF
Prep Batch:	100533	Sample Preparation:	2015-01-27	Prepared By:	CF

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Specific Gravity			**1.124**		g/ml	1	0.000

Sample: 385131 - Brine

Laboratory:	Lubbock				
Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	118905	Date Analyzed:	2015-01-26	Analyzed By:	RL
Prep Batch:	100553	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Dissolved Solids		1,2,3,4,5	**186000**		mg/L	2000	2.50

Method Blanks

Method Blank (1) QC Batch: 118885

QC Batch:	118885	Date Analyzed:	2015-01-27	Analyzed By:	CF
Prep Batch:	100533	QC Preparation:	2015-01-27	Prepared By:	CF

Parameter	Flag	Cert	MDL Result	Units	RL
Specific Gravity			0.9916	g/ml	

Method Blank (1) QC Batch: 118905

QC Batch:	118905	Date Analyzed:	2015-01-26	Analyzed By:	RL
Prep Batch:	100553	QC Preparation:	2015-01-26	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Total Dissolved Solids		1,2,3,4,5	<25.0	mg/L	2.5

Method Blank (1) QC Batch: 119127

QC Batch:	119127	Date Analyzed:	2015-02-06	Analyzed By:	RR
Prep Batch:	100546	QC Preparation:	2015-01-27	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Dissolved Sodium		2,3,4,5	<0.0184	mg/L	1

Method Blank (1) QC Batch: 119410

QC Batch:	119410	Date Analyzed:	2015-02-16	Analyzed By:	RL
Prep Batch:	100982	QC Preparation:	2015-02-16	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		1,2,3,4,5	0.767	mg/L	2.5

Duplicates

Duplicates (1) Duplicated Sample: 385269

QC Batch: 118885 | Date Analyzed: 2015-01-27 | Analyzed By: CF
Prep Batch: 100533 | QC Preparation: 2015-01-27 | Prepared By: CF

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Gravity		1.074	1.072	g/ml	1	0	200

Duplicates (1) Duplicated Sample: 385269

QC Batch: 118893 | Date Analyzed: 2015-01-27 | Analyzed By: AT
Prep Batch: 100544 | QC Preparation: 2015-01-27 | Prepared By: AT

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	1,2,4,5	6.79	6.78	s.u.	1	0	20

Duplicates (1) Duplicated Sample: 385130

QC Batch: 118905 | Date Analyzed: 2015-01-26 | Analyzed By: RL
Prep Batch: 100553 | QC Preparation: 2015-01-26 | Prepared By: RL

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1,2,3,4,5	850	806	mg/L	20	5	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 118905 | Date Analyzed: 2015-01-26 | Analyzed By: RL
Prep Batch: 100553 | QC Preparation: 2015-01-26 | Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1,2,3,4,5	988	mg/L	10	1000	<25.0	99	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1,2,3,4,5	978	mg/L	10	1000	<25.0	98	90 - 110	1	10

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: 119127 | Date Analyzed: 2015-02-06 | Analyzed By: RR
Prep Batch: 100546 | QC Preparation: 2015-01-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium		2,3,4,5	56.0	mg/L	1	52.5	<0.0184	107	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium		2,3,4,5	57.2	mg/L	1	52.5	<0.0184	109	85 - 115	2	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: 119410 | Date Analyzed: 2015-02-16 | Analyzed By: RL
Prep Batch: 100982 | QC Preparation: 2015-02-16 | Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,2,3,4,5	24.0	mg/L	1	25.0	0.767	93	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,2,3,4,5	23.5	mg/L	1	25.0	0.767	91	90 - 110	2	20

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

Matrix Spikes

Matrix Spike (xMS-1) Spiked Sample: 385041

QC Batch: 119127 | Date Analyzed: 2015-02-06 | Analyzed By: RR
Prep Batch: 100546 | QC Preparation: 2015-01-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium		2,3,4,5	1660	mg/L	1	525	1210	86	75 - 125

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium	Qs Qs	2,3,4,5	1580	mg/L	1	525	1210	70	75 - 125	5	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: 386889

QC Batch: 119410 | Date Analyzed: 2015-02-16 | Analyzed By: RL
Prep Batch: 100982 | QC Preparation: 2015-02-16 | Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1,2,3,4,5	3350	mg/L	100	2500	812	102	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1,2,3,4,5	3290	mg/L	100	2500	812	99	80 - 120	2	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 118893 Date Analyzed: 2015-01-27 Analyzed By: AT

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		1,2,4,5	s.u.	7.00	7.01	100	98.6 - 101.4	2015-01-27

Standard (CCV-1)

QC Batch: 118893 Date Analyzed: 2015-01-27 Analyzed By: AT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		1,2,4,5	s.u.	7.00	7.01	100	98.6 - 101.4	2015-01-27

Standard (ICV-1)

QC Batch: 119127 Date Analyzed: 2015-02-06 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		2,3,4,5	mg/L	51.0	51.7	101	90 - 110	2015-02-06

Standard (CCV-1)

QC Batch: 119127 Date Analyzed: 2015-02-06 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		2,3,4,5	mg/L	51.0	55.9	110	90 - 110	2015-02-06

Standard (CCV-1)

QC Batch: 119410 Date Analyzed: 2015-02-16 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,2,3,4,5	mg/L	25.0	23.8	95	90 - 110	2015-02-16

Standard (CCV-2)

QC Batch: 119410 Date Analyzed: 2015-02-16 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1,2,3,4,5	mg/L	25.0	23.9	96	90 - 110	2015-02-16

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F	Description
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 1501230C

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: PRICE LLC
Phone #: 505 892 6643
Address: (Street, City, Zip) 312 ENCANTADO RIDGE COURT NE RIO RANCHO NM 87124
Fax #: 505 892 6643
Contact Person: LESTER WAYNE PRICE JR
E-mail: WAPRICE23@HOTMAIL.COM
Invoice to: (If different from above) WASSERHUND MANDY
Project #: NA
Project Name: BRINE WELL
Project Location (including state): BUCKEYE NM
Sampler Signature: LWPJR

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
385130	FRESH	1	1 Liter Plastic	X								X		1/16/15	3:57PM
131	BRINE	1	1 Liter Plastic	X								X		1/16/15	4:10PM

LAB # (LAB USE ONLY)	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC	CHLORIDES, PH, SO4, TDS	DISSOLVED SODIUM			Turn Around Time if different from standard	Hold
385130																				X				
131																				X	X			

Relinquished by: LESTER WAYNE PRICE JR **Company:** PRICE LLC **Date:** 1/21/15 **Time:** 4:50PM
Received by: Billy Bender **Company:** Brandon + Clark **Date:** 1-21-15 **Time:** 4:51 PM
INST ____ OBS ____ °C COR ____ °C

Relinquished by: **Company:** **Date:** **Time:**
Received by: **Company:** **Date:** **Time:**
INST ____ OBS ____ °C COR ____ °C

Relinquished by: **Company:** **Date:** **Time:**
Received by: Brenda Ward **Company:** TA Lubbock **Date:** 1/23/15 **Time:** 8:30
INST ____ OBS 1.9 °C COR 1.9 °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review

REMARKS: N/A

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

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

-3c

Carrier # LS 250141344

ORIGINAL COPY

Summary Report

Lester Waynce Price Jr.
Price LLC
312 Encantado Ridge Ct. NE
Rio Rancho, NM 87124

Report Date: February 17, 2015

Work Order: 15012306

Project Location: Buckeye, NM
Project Name: Brine Well

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
385130	Fresh	water	2015-01-16	15:51	2015-01-21
385131	Brine	water	2015-01-16	14:10	2015-01-21

Sample: 385130 - Fresh

Param	Flag	Result	Units	RL
Chloride	H	**338**	mg/L	2.5
Dissolved Sodium	Qs	**221**	mg/L	1
pH		**8.03**	s.u.	2
Specific Gravity		**0.9918**	g/ml	
Total Dissolved Solids		**806**	mg/L	2.5

Sample: 385131 - Brine

Param	Flag	Result	Units	RL
Chloride	H	**106000**	mg/L	2.5
Dissolved Sodium	Qs	**81300**	mg/L	1
pH		**7.12**	s.u.	2
Specific Gravity		**1.124**	g/ml	
Total Dissolved Solids		**186000**	mg/L	2.5