Basic Analytical Testing 5935 Glenoak Ln Amarillo, TX 79109 806-353-4425 • 800-423-9443 Web Site: www.batlaboratoriesllc.com Email: admin@batlaboratoriesllc.com

City of Dalhart WWTP P.O. Box 2005 Dalhart, TX 79022 Attn: Ty Hancock



T104704346-20-17

Sample Cross Reference and Identification

Lab ID	Customer ID	Matrix Collected	Lab ID	Customer ID	Matrix Collected
20080072-001	321 W. 1st	Drink 08/26/2020 08:25	20080072-003	501 Olive	Drink 08/26/2020 09:08
20080072-002	1818 Oak	Drink 08/26/2020 08:45	20080072-004	1113 Sagebrush	Drink 08/26/2020 09:30

Sample(s) Received: 08/26/2020 14:12

Certified By Vincient R Barnes

President

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T104704346-20-17

Customer ID: 321 W. 1st

Analytical Report

BATLabs ID: 20080072-001

WQP Total Alkalinity 1 231 mg/L (CaCO3) 20.0 1 EM 08/28/2020 Chloride 2 17.0 mg/L 3.00 3.00 1 SUB-ELI 08/31/2020 09: Specific Conductance 1 3240 umhos/cm 2.00 2.00 1 PAT 08/27/2020 Total Hardness 1 210.0 mg/L (CaCO3) 1.000 1 RLG 08/28/2020 16:		
Sulfate 2 28.2 mg/L 2.00 1 SUB-ELI 09/02/2020 14:3 Total Dissolved Solids 1 384 mg/L 10.0 10.0 1 RLG 08/28/2020 14:3 Calcium 2 38.1 mg/L 2.00 2.00 1 SUB-ELI 09/02/2020 14:3 Iron 2 38.1 mg/L 2.00 2.00 1 SUB-ELI 08/31/2020 Manganese 2 ND mg/L 0.005 0.005 1 SUB-ELI 08/31/2020 Sodium 2 21.0 mg/L 2.00 2.00 1 SUB-ELI 08/31/2020	Chloride Specific Conductance Total Hardness Sulfate Total Dissolved Solids Calcium Iron Manganese	9:52 B0H4734 0 WCPRB04-20-08-03- 6:20 WCOBS01-20-08-02 4:57 B0H1743 0 WCBAL01C-20-08-1 0 B010145 0 B010145 0 B010145

BATLabs ID: 20080072-002

Customer ID: 1818 Oak

Sample Collected: 08/26/2020 08:45

Sample Collected: 08/26/2020 08:25

Analyte WQP	Rur	Result	Flag	Units	MQL	SQL	FAC	Analyst	Analysis Date	QC Batch ID
Total Alkalinity	1	231	m	ng/L (CaCO3)	20.0	20.0	1	EM	08/28/2020	WCPRB05-20-08-03
Chloride	2	19.0		mg/L	3.00	3.00	1	SUB-ELI ()	8/31/2020 09:52	B0H4734
Specific Conductance	1	895	ι	umhos/cm	2.00	2.00	1	PAT	08/27/2020	WCPRB04-20-08-03-1
Total Hardness	1	220.0	m	ng/L (CaCO3)	1.000	1.000	1	RLG 0	8/28/2020 16:20	WCOBS01-20-08-02
Sulfate	2	34.4		mg/L	2.00	2.00	1	SUB-ELI ()	9/02/2020 14:57	B0H1743
Total Dissolved Solids	1	396		mg/L	10.0	10.0	1	RLG	08/28/2020	WCBAL01C-20-08-11
Calcium	2	36.0		mg/L	2.00	2.00	1	SUB-ELI	08/31/2020	B010149
Iron	2	0.022		mg/L	0.005	0.005	1	SUB-ELI	08/31/2020	B010149
Manganese	2	ND		mg/L	0.005	0.005	1	SUB-ELI	08/31/2020	B010149
Sodium	2	19.9		mg/L	2.00	2.00	1	SUB-ELI	08/31/2020	B010149

BATLabs ID: 20080072-003

Customer ID: 501 Olive

Sample Collected: 08/26/2020 09:08

Analyte WQP	Run	Result	Flag	Units	MQL	SQL	FAC	Analyst	Analysis Date	QC Batch ID
Total Alkalinity	1	210	m	ng/L (CaCO3)	20.0	20.0	1	EM	08/28/2020	WCPRB05-20-08-03
Chloride	2	17.5		mg/L	3.00	3.00	1	SUB-ELI ()	8/31/2020 09:52	B0H4734
Specific Conductance	1	3250	ι	umhos/cm	2.00	2.00	1	PAT	08/27/2020	WCPRB04-20-08-03-1
Total Hardness	1	220.0	m	ng/L (CaCO3)	1.000	1.000	1	RLG 0	8/28/2020 16:20	WCOBS01-20-08-02
Sulfate	2	35.0		mg/L	2.00	2.00	1	SUB-ELI ()	9/02/2020 14:57	B0H1743
Total Dissolved Solids	1	352		mg/L	10.0	10.0	1	RLG	08/28/2020	WCBAL01C-20-08-11
Calcium	2	37.9		mg/L	2.00	2.00	1	SUB-ELI	08/31/2020	B010149
Iron	2	0.017		mg/L	0.005	0.005	1	SUB-ELI	08/31/2020	B010149
Manganese	2	ND		mg/L	0.005	0.005	1	SUB-ELI	08/31/2020	B010149
Sodium	2	20.6		mg/L	2.00	2.00	1	SUB-ELI	08/31/2020	B010149

BATLabs ID: 20080072-004

Customer ID: 1113 Sagebrush

Sample Collected: 08/26/2020 09:30

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T104704346-20-17

Analytical Report

BATLabs ID: 20080072-004		Custom	er ID: 1	113 Sageb	orush				Sample Collecte	d: 08/26/2020 09:30
Analyte WQP	Run	Result	Flag	Units	MQL	SQL	FAC	Analyst	Analysis Date	QC Batch ID
Total Alkalinity	1	210	m	ig/L (CaCO3)	20.0	20.0	1	EM	08/28/2020	WCPRB05-20-08-03
Chloride	2	18.0		mg/L	3.00	3.00	1	SUB-ELI	08/31/2020 09:52	B0H4734
Specific Conductance	1	1360	ι	umhos/cm	2.00	2.00	1	PAT	08/27/2020	WCPRB04-20-08-03-1
Total Hardness	1	220.0	m	ig/L (CaCO3)	1.000	1.000	1	RLG	08/28/2020 16:20	WCOBS01-20-08-02
Sulfate	2	31.6		mg/L	2.00	2.00	1	SUB-ELI	09/02/2020 14:57	B0H1743
Total Dissolved Solids	1	363		mg/L	10.0	10.0	1	RLG	08/28/2020	WCBAL01C-20-08-11
Calcium	2	37.2		mg/L	2.00	2.00	1	SUB-ELI	08/31/2020	B010149
Iron	2	ND		mg/L	0.005	0.005	1	SUB-ELI	08/31/2020	B010149
Manganese	2	ND		mg/L	0.005	0.005	1	SUB-ELI	08/31/2020	B010149
Sodium	2	20.4		mg/L	2.00	2.00	1	SUB-ELI	08/31/2020	B010149

QC Summary

Calibration Verification

		CV	CV		cv	CV2	CV2		CV2
QC Batch ID: WCPRB04-20-08-03-1	Units	Conc	Result	CV %	Limit	Conc	Result	CV2	Limit
Specific Conductance	umhos/cm	99.4	101	1.5%	5%	99.4	101	1.%%%	5%

Blank and Laboratory Control Samples

QC Batch ID: B010149 Sodium Calcium Iron Manganese	Blank ND ND ND ND	LCS Conc 20 20 20 0.25	Units mg/L mg/L mg/L mg/L	LCS Results 20.6 20.6 261 0.260	LCS Recov 103% 103% 1305 104%	LCSD Results	LCSD Recov	RPD	Flags Qlcsh
			L	.imits: 85%	6-115%	85%	6-115%	20%	
QC Batch ID: B0H1743 Sulfate	Blank ND	LCS Conc 20.0	Units mg/L	LCS Results 18.0	LCS Recov 90%	LCSD Results	LCSD Recov	RPD	Flags
				Limits:	0%-0%		0%-0%	20%	
QC Batch ID: B0H4734 Chloride	Blank ND	LCS Conc 100	Units mg/L	LCS Results 102	LCS Recov 102%	LCSD Results	LCSD Recov	RPD	Flags
			L	.imits: 90%	6-110%	90%	6-110%	20%	
QC Batch ID: WCBAL01C-20-08-11 Total Dissolved Solids	Blank ND	LCS Conc 100	Units mg/L	LCS Results 169	LCS Recov 169%	LCSD Results 122	LCSD Recov 122%	RPD 32.3%	Flags Qlcsh,Qlcsh,Qrpd
			L	imits: 80%	%-120%	80%	%-120%	5.0%	

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QC Summary

Blank and Laboratory Control Samples

QC Batch ID: WCOBS01-20-08-02 Total Hardness	Blank ND	LCS Conc Units 10.0 mg/L (CaC	LCS Results O3) 10.00	LCS Recov 100%	LCSD Results 10.00	LCSD Recov 100%	RPD 0.0%	Flags
			Limits: 90%	%-110%	80%	%-120%	20%	
QC Batch ID: WCPRB04-20-08-03-1 Specific Conductance	Blank ND	LCS Conc Units 996 umhos/c	LCS Results m 989	LCS Recov 99%	LCSD Results 991	LCSD Recov 99%	RPD 0.2%	Flags
			Limits: 95%	%-105%	95%	%-105%	20%	
QC Batch ID: WCPRB05-20-08-03 Total Alkalinity	Blank ND	LCS Conc Units 25 mg/L (CaC	LCS Results O3) 31.5	LCS Recov 126%	LCSD Results 26.3	LCSD Recov 105%	RPD 18.0%	Flags Qlcsh
			Limits: 80%	6-120%	80%	%-120%	20%	

Batch Duplicates

QC Batch ID: WCBAL01C-20-08-11 Total Dissolved Solids	Reference 20080058-001A Run 1	Results 418	Dup Results 439	RPD 4.9%	Flags
		Lim	its:	5.0%	
QC Batch ID: WCOBS01-20-08-02 Total Hardness	Reference 20080058-001A3 Run 1	Results 210.0	Dup Results 230.0	RPD 9.1%	Flags
		Lim	its:	20%	
QC Batch ID: WCPRB05-20-08-03 Total Alkalinity	Reference 20080058-001A Run 1	Results 262	Dup Results 273	RPD 3.9%	Flags
		Lim	its:	20%	

Matrix Spike

QC Batch ID: B010149	Sample ID	Result	Spike Conc	Units	MS Result	MS Recov	MSD Result	MSD Recov	PPD	Flags
										i lags
Sodium	Batch	922	200	mg/L	1140	109%	1140	109%	0.0%	
Calcium	Batch	28.4	200	mg/L	235	103%	246	109%	4.6%	
Iron	Batch	0.388	5.00	mg/L	4.64	85%	5.60	104%	18.8%	
Manganese	Batch	ND	5.00	mg/L	4.74	95%	5.14	103%	8.1%	
				L	imits: 75%	%-125%	75%	%-125%	20%	

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QC Summary

Matrix Spike

QC Batch ID: B0H1743 Sulfate	Sample ID Batch	Result 28.2	Spike Conc 20.0	Units mg/L	MS Result 49.0 Limits:	MS Recov 104%	MSD Result 51.0	MSD Recov 114%	RPD 4.0% 20%	Flags Qspkh
QC Batch ID: B0H4734 Chloride	Sample ID Batch	Result 18.0	Spike Conc 20.0	Units mg/L	MS Result 340	MS Recov 80%	34.5	MSD Recov 82%		Flags Qspkl

Methods Cross Reference

SUB-200.7	Trace metals analysis by EPA 200.7
SUB-CL	Method: SM 4500-Cl B (Chloride) ASTM D516-07 (Sulfate)
SUB_IONC	Anions by Ion Chromatrography FI, CI, NO2, NO3, o-PO4, SO4, Br Reference Methods: EPA 300.0, SW-846 9056
WCBAL01_2007	Solids Determinations using gravimetric techniques Reference Methods: SM 2540 B (TS), SM 2540 C(TDS), SM 2540 D(TSS)
WCOBS01_2008	Total Hardness (Titration) Reference Method: SM 2340 C
WCPRB04_2007	Specific Conductance Reference Method: SM 2510 B, EPA 9050
WCPRB05_2007	Total Alkalinity as CaCO3 Reference Method: SM 2320 B

Definitions

Abbreviations

[]	Analyte accreditation not currently available through NELAC protocols.
[ד]	Analyte determined using method protocols for Tentatively Indentified compounds. Results should be considered estimated values only.
ВАТСН	A sample other than the order number listed was spiked within this analytical run. Alternately, a post preparation matrix spike may have been used on a diluted sample due to high matrix constituents.
CCV	Continuing Calibration Verification

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Definitions

Abbreviations

Conc	Concentration
CV	Calibration Verification
FAC	Preparation and/or Dilution factor for the analysis listed.
ICS	Interference Control SampleA = Control Matrix, B = Spiked Control Matrix
LCS/LCSD	Laboratory control spike/Laboratory control spike duplicate A laboratory spike of a clean matrix, carried through all method preparation and analysis steps.
LFB/LFBD	Lab fortified blank/duplicate For ICPMS or Hg results from this laboratory the LFB/LFBD cannot be substituted for an LCS/LCSD. The LFB/LFBD is not carried through all preparation steps for the method; the LCS/LCSD is carried through the entire method.
MQL	Method quantitation limit (the LOQ adjusted to reflect any laboratory adjustments made to the sample during analysis such as dry weight or dilutions) i.e. the Method reporting Limit.
MS/MSD	Matrix spike/Matrix spike duplicate Laboratory spike of a client sample.
NA	Not Applicable/Not Analyzed
ND	Analyte not detected at or below SQL
PMS/PMSD	Post Preparation Matrix spike/duplicate
PQL	Project quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions) i.e. the Project reporting Limit.
QC	Quality Control
RPD	Relative percent difference
SQL	Sample quantitation limit analogous to the sample detection limit (the MDL adjusted to reflect any laboratory adjustments made to the sample during analysis such as dry weight or dilutions) i.e. the Sample Detection Limit for the method as prepared. Or same as MQL.
Sub	Analysis performed by subcontract laboratory. See listing of subcontractor certificates for analysis laboratory.
Units of Measurement	
mg/L	mg/L = milligrams per liter (ppm)
mg/L (CaCO3)	mg/L = milligrams per liter (ppm) as Calcium Carbonate
umhos/cm	micro mhos/centimeter
Flags	
Qlcsh	LCS or LCSD recovery outside laboratory limits - high

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Definitions

Flags

Qrpd	RPD for duplicate results (LCS or MS or LFB or Sample) exceeds laboratory recommended limits
Qspkh	LFB/PMS/ MS or LFBD/PMSD/MSD recovery outside laboratory limits - high
Qspkl	LFB/PMS/ MS or LFBD/PMSD/MSD recovery outside laboratory limits - low

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City of Dalhart Work Order ID: 20-08-0072 Date: 09/28/2020 16:55 Page: 8 of 8

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