



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)

Completed by Laboratory

PWS Name: Granbury Mine

71092

Laboratory Name: Fort Worth Centralized Water & Wastewater Laboratory

PWS ID #: 1110131

TCEQ Lab ID #: 48135

PWS Address: 3549 Monroe Hwy, Granbury, TX 7604

Work Order ID: Granbury Mine PWS 1110131

2600 SE Loop 820

PWS Contact: Nate Peterson

Laboratory Address: Fort Worth, TX 76140

PWS Contact Phone #: 682-500-4388

Laboratory Contact: David Nelson

Inhibitor or Stabilizer Used (v): ☐ Phosphate ☐ Silica ☐ Calcium carbonate

TREATMENT

Alkalinity
Dosage
Rate: NA

Inhibitor Dosage Rate: NA

Laboratory Contact Phone #: [817] 392-5900

Sample Type (v): ☒ Compliance

Non-compliance

Sample Collector (v): ☒ Public Water System

☒ Accredited Lab

☐ 3rd Party Contractor --> LAB ID

Temperature and pH (Y or N): ☒ Y

Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?

☒ Y

Were temperature and pH measured in the field within 15 minutes of sample collection?

Parameters Requested: Analyses are required for the parameters checked. * If inhibitors containing phosphate or silica are used, then these parameters should also be analyzed depending on which is in use.

Facility ID (e.g. DS01, PBCU001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement? (v)	Original Sample ID #	Original Sample Date (MMDDYY)	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-Phosphate (1044) *	Silica (1049) *
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)																
DS01	DSTWQP	Sample Port	111418	1135	7.51	20.6				71092 01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
PBCU001	EWQP	3549 Monroe Hwy; Granbury	111418	1125	7.19	22.1				7109202	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

I acknowledge that information on this form is true and correct and sites selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)

Sample Conditions Upon Receipt (v)

☒ Samples received unpreserved? ☒ Iced ☐ Ambient

Name of Authorized PWS Representative (Print)

Signature

Organization

Date

Rejection Code (if applicable):

Actual / Corrected
sample temperature:

17.4

Nate Peterson

VPROP

11/14/18

Date & Time of Sample Preservation
(Acidified):

11-15-18 17:05

Thermometer ID #:

K

Chain of Custody

Relinquished By (Signature)

Date/Time:

11/14/18 13:08

Relinquished By Courier (Signature)

Date/Time:

Received By Courier (Signature)

Date/Time:

Received By Lab (Signature)

Date/Time:

Laboratory Comments:

11-14-18
1308



Centralized Water and Wastewater Laboratory



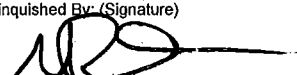
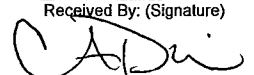
2600 S.E. Loop 820 Fort Worth, TX 76140 Phone (817) 392-5900 Fax (817) 392-5920

Please print legibly

CHAIN OF CUSTODY RECORD

Client Contact Information			State (of sample origin)	Project Name	Sampler (Printed)	AREA FOR 71092  Work Order ID: Granbury Mine PWS 1110131	# of Containers	Matrix Code	Sample Type
Granbury Mine 3549 Monroe Hwy Granbury TX 76049 682-500-4388			TX	Contract WQP PWS#1110131	Name of Sampler: Nate Petesen				
Sample ID #	Collection Date	Collection Time	Sampling Site		Test Name	Sample Remarks			
7109201	11/14/18	1135 AM	Sample Port		2320B-TALK; 3500-CALC; 2510-COND; 2340C-HARD; 200.8MNDW; 300.0-S04; 2540C-TDS; 300.0-Cl; [CONABLAB] 200.7 Iron & Sodium		5	DW	G
7109202	11/14/18	1125 AM	3549 Monroe Hwy; Granbury		2320B-TALK; 3500-CALC; 2510-COND; 2340C-HARD; 200.8MNDW; 300.0-S04; 2540C-TDS; 300.0-Cl; [CONABLAB]; 200.7 Iron & Sodium		5	DW	G

Field Comments: Carrier _____ Airbill No _____ Cooler No. _____ Date Shipped _____

Relinquished By: (Signature) 	Date 11/14/18	Time 308 AM	Received By: (Signature) 	Date 11-14-18	Time 308 AM	LAB COMMENTS Project Information Update: 12/08/14 
Relinquished By: (Signature)	Date	Time AM PM	Received By: (Signature)	Date	Time AM PM	IR Thermometer: _____
Relinquished By: (Signature)	Date	Time AM PM	Received By: (Signature)	Date	Time AM PM	CONDITIONS UPON RECEIPT (Check One) ☒ Ice ☐ Ambient 17.4 °C Upon Receipt

Matrix Codes: DW=Drinking Water NP=Non-Potable Water S=Solid Waste WW=Wastewater	Sample Types C=Composite G=Grab	Container Types V=VOA Vials AG=Amber Glass CG=Clear Glass P=Plastic	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
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OMS-003

Rev. 2

Issue Date: 12/23/2014

Effective Date: 01/01/2015



Centralized Water and Wastewater Laboratory

2600 South East Loop 820 Fort Worth, Texas 76140 Tel: 817-392-5900 Fax: 817-392-5920



T104704200-18-17

November 28, 2018

Nate Peterson
Granbury Mine
3549 Monroe Hwy
Granbury, TX 76049

RE: Workorder: 71092 Granbury Mine PWS 1110131

Dear Nate Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, November 14, 2018. Results reported herein conform to the 2009 TNI Standards, where applicable, unless otherwise narrated in the body of the report. All results being reported under this Report Identification Number apply only to the samples analyzed and properly identified with a Sample ID number.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by The City of Fort Worth Water Department Centralized Water and Wastewater Laboratory. This report will be filed for at least 10 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The sample(s) received, and described as recorded in this report will be stored up to 30 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample size exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting The City of Fort Worth Water Department Centralized Water and Wastewater Laboratory to serve your analytical needs. If you have any questions concerning this report, please feel free to contact the Laboratory at (817)392-5900 any time.

Sincerely,

Walter Kornegay for

David Nelson
Laboratory Manager



Centralized Water and Wastewater Laboratory

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T104704200-18-17

SAMPLE ANALYTE COUNT

Workorder: 71092 Granbury Mine PWS 1110131

Lab ID	Sample ID	Method	Analytes Reported
7109201	Sample Port	EPA 200.8, ICP-MS Metals	1
		EPA 300.0 PartA Anions	2
		SM 2320B Alkalinity	1
		SM 2340C Hardness	1
		SM 2510B Conductivity	1
		SM 2540C TDS	1
		SM 3500CaB Calcium	1
7109202	3549 Monroe Hwy	EPA 200.8, ICP-MS Metals	1
		EPA 300.0 PartA Anions	2
		SM 2320B Alkalinity	1
		SM 2340C Hardness	1
		SM 2510B Conductivity	1
		SM 2540C TDS	1
		SM 3500CaB Calcium	1



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T104704200-18-17

SAMPLE SUMMARY

Workorder: 71092 Granbury Mine PWS 1110131

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7109201	Sample Port	Drinking Water	11/14/2018 11:35	11/14/2018 13:08
7109202	3549 Monroe Hwy	Drinking Water	11/14/2018 11:25	11/14/2018 13:08



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T104704200-18-17

PROJECT SUMMARY

Workorder: 71092 Granbury Mine PWS 1110131

Sample Analysis Comments

Lab ID: 7109201	Sample ID: Sample Port	Analyte: Calcium
SQ5 Sample received with inadequate chemical preservation, but preserved by the laboratory.		
Lab ID: 7109201	Sample ID: Sample Port	Analyte: Hardness
SQ5 Sample received with inadequate chemical preservation, but preserved by the laboratory.		
Lab ID: 7109202	Sample ID: 3549 Monroe Hwy	Analyte: Calcium
SQ5 Sample received with inadequate chemical preservation, but preserved by the laboratory.		
Lab ID: 7109202	Sample ID: 3549 Monroe Hwy	Analyte: Hardness
SQ5 Sample received with inadequate chemical preservation, but preserved by the laboratory.		



ANALYTICAL RESULTS

Workorder: 71092 Granbury Mine PWS 1110131

Lab ID: **7109201**

Date Received: 11/14/2018

Matrix: Drinking Water

Sample ID: **Sample Port**

Date Collected: 11/14/2018 11:35

Parameters	Results	Units	RDL	MDL	Cert	DF	Prepared	By	Analyzed	By	Qual
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Metals

Analytical Method: EPA 200.8, ICP-MS Metals

Manganese	<0.00500	mg/L	0.00500	0.00023	TX,LA	1	11/15/2018 17:05	KYB	11/16/2018 17:30	KYB
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Ion Chromatography

Analytical Method: EPA 300.0 Part A Anions

Sulfate	20.2	mg/L	5.00	0.94	TX,LA	1			11/16/2018 21:30	KB
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Chloride	8.20	mg/L	5.00	0.45	TX	1			11/16/2018 21:30	KB
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General Chemistry

Analytical Method: SM 2320B Alkalinity

Total Alkalinity	216	mg/L	30.0	9.2	TX App	1			11/15/2018 09:30	LAB
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Gravimetric

Analytical Method: SM 2540C TDS

Total Dissolved Solids	270	mg/L	50.0	6.00	TX App	1			11/15/2018 16:00	AV
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General Chemistry

Analytical Method: SM 2340C Hardness

Hardness	246	mg/L	5.00		TX,LA	1			11/16/2018 10:15	MA1	2
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Analytical Method: SM 2510B Conductivity

Specific Conductance	426	umhos/cm	2.0		TX,LA	1			11/15/2018 14:00	MA1
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Analytical Method: SM 3500CaB Calcium

Calcium	95.4	mg/L	5.00		TX App	1			11/19/2018 14:50	LAB	1
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T104704200-18-17

ANALYTICAL RESULTS

Workorder: 71092 Granbury Mine PWS 1110131

Lab ID: **7109202**

Date Received: 11/14/2018

Matrix: Drinking Water

Sample ID: **3549 Monroe Hwy**

Date Collected: 11/14/2018 11:25

Parameters	Results	Units	RDL	MDL	Cert	DF	Prepared	By	Analyzed	By	Qual
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Metals

Analytical Method: EPA 200.8, ICP-MS Metals

Manganese	<0.00500	mg/L	0.00500	0.00023	TX,LA	1	11/15/2018 17:05	KYB	11/16/2018 17:34	KYB
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Ion Chromatography

Analytical Method: EPA 300.0 Part A Anions

Sulfate	20.4	mg/L	5.00	0.94	TX,LA	1			11/16/2018 23:19	KB
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Chloride	6.77	mg/L	5.00	0.45	TX	1			11/16/2018 23:19	KB
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General Chemistry

Analytical Method: SM 2320B Alkalinity

Total Alkalinity	213	mg/L	30.0	9.2	TX App	1			11/15/2018 09:30	LAB
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Gravimetric

Analytical Method: SM 2540C TDS

Total Dissolved Solids	274	mg/L	50.0	6.00	TX App	1			11/15/2018 16:00	AV
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General Chemistry

Analytical Method: SM 2340C Hardness

Hardness	243	mg/L	5.00		TX,LA	1			11/16/2018 10:15	MA1	2
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Analytical Method: SM 2510B Conductivity

Specific Conductance	422	umhos/cm	2.0		TX,LA	1			11/15/2018 14:00	MA1
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Analytical Method: SM 3500CaB Calcium

Calcium	97.7	mg/L	5.00		TX App	1			11/19/2018 14:50	LAB	1
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ANALYTICAL RESULTS QUALIFIERS

Workorder: 71092 Granbury Mine PWS 1110131

PARAMETER QUALIFIERS

Lab ID: 7109201

- | | | |
|---|-----|---|
| 1 | SQ5 | Sample received with inadequate chemical preservation, but preserved by the laboratory. |
| 2 | SQ5 | Sample received with inadequate chemical preservation, but preserved by the laboratory. |

Lab ID: 7109202

- | | | |
|---|-----|---|
| 1 | SQ5 | Sample received with inadequate chemical preservation, but preserved by the laboratory. |
| 2 | SQ5 | Sample received with inadequate chemical preservation, but preserved by the laboratory. |



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T104704200-18-17

QUALITY CONTROL DATA

Workorder: 71092 Granbury Mine PWS 1110131

QC Batch: ORG/10780 **Analysis Method:** EPA 300.0 PartA Anions
QC Batch Method: EPA 300.0 PartA Anions
Associated Lab Samples: 7109201, 7109202

METHOD BLANK: 276926

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<2.50	2.50	
Sulfate	mg/L	<2.50	2.50	

LABORATORY CONTROL SAMPLE: 276928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Qualifiers
Chloride	mg/L	20	18.9	94	90 - 110	
Sulfate	mg/L	20	19.8	99	90 - 110	

MATRIX SPIKE SAMPLE: 277221 ORIGINAL: 7109201

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limit	Qualifiers
Chloride	mg/L	8.2	20	28.2	100	80 - 120	
Sulfate	mg/L	20.2	20	39.6	97	80 - 120	



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QUALITY CONTROL DATA

Workorder: 71092 Granbury Mine PWS 1110131

QC Batch: INOR/61799 **Analysis Method:** SM 2320B Alkalinity
QC Batch Method: SM 2320B Alkalinity
Associated Lab Samples: 7109201, 7109202

METHOD BLANK: 276931

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Alkalinity	mg/L	<15	15	

LABORATORY CONTROL SAMPLE: 276933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Qualifiers
Total Alkalinity	mg/L	50	50.4	101	98 - 110	

SAMPLE DUPLICATE: 276935 ORIGINAL: 7109201

Parameter	Units	Original Result	DUP Result	RPD	Max	Qualifiers
Total Alkalinity	mg/L	216	219	1	5	



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T104704200-18-17

QUALITY CONTROL DATA

Workorder: 71092 Granbury Mine PWS 1110131

QC Batch: INOR/61843 **Analysis Method:** SM 2510B Conductivity
QC Batch Method: SM 2510B Conductivity
Associated Lab Samples: 7109201, 7109202

METHOD BLANK: 277127

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Specific Conductance	umhos/cm	<2.0	2.0	

LABORATORY CONTROL SAMPLE: 277129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Qualifiers
Specific Conductance	umhos/cm	447	455	102	98 - 105	

SAMPLE DUPLICATE: 277131 ORIGINAL: 7109201

Parameter	Units	Original Result	DUP Result	RPD	Max	Qualifiers
Specific Conductance	umhos/cm	426	426	0	3	



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T104704200-18-17

QUALITY CONTROL DATA

Workorder: 71092 Granbury Mine PWS 1110131

QC Batch: INOR/61844 **Analysis Method:** SM 2540C TDS

QC Batch Method: SM 2540C TDS

Associated Lab Samples: 7109201, 7109202

METHOD BLANK: 277132

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	<50.0	50.0	

LABORATORY CONTROL SAMPLE: 277133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Qualifiers
Total Dissolved Solids	mg/L	1000	1020	102	80 - 120	

SAMPLE DUPLICATE: 277134 ORIGINAL: 7109202

Parameter	Units	Original Result	DUP Result	RPD	Max	Qualifiers
Total Dissolved Solids	mg/L	274	268	2	10	



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T104704200-18-17

QUALITY CONTROL DATA

Workorder: 71092 Granbury Mine PWS 1110131

QC Batch: INOR/61856 **Analysis Method:** SM 2340C Hardness
QC Batch Method: SM 2340C Hardness
Associated Lab Samples: 7109201, 7109202

METHOD BLANK: 277236

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Hardness	mg/L	<2.5	2.5	

LABORATORY CONTROL SAMPLE: 277238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Qualifiers
Hardness	mg/L	50	50.6	101	80 - 120	

MATRIX SPIKE: 277239 DUPLICATE: 277240 ORIGINAL: 7109201

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifie
Hardness	mg/L	246	50	296	298	100	104	80 - 120	4	20	1



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T104704200-18-17

QUALITY CONTROL DATA

Workorder: 71092 Granbury Mine PWS 1110131

QC Batch: MET/5379 **Analysis Method:** EPA 200.8, ICP-MS Metals
QC Batch Method: EPA 200.8 - ICP-MS Metals Prep
Associated Lab Samples: 7109201, 7109202

METHOD BLANK: 277333

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Manganese	mg/L	<0.00023	0.00023	

LABORATORY CONTROL SAMPLE: 277334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Qualifiers
Manganese	mg/L	.1	.1	101	85 - 115	

MATRIX SPIKE: 277336 DUPLICATE: 277337 ORIGINAL: 7099901

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifie
Manganese	mg/L	0	.1	.1	.1	101	101	70 - 130	0	20	

MATRIX SPIKE: 277338 DUPLICATE: 277339 ORIGINAL: 7100102

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifie
Manganese	mg/L	0	.1	.1	.1	100	101	70 - 130	1	20	



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T104704200-18-17

QUALITY CONTROL DATA

Workorder: 71092 Granbury Mine PWS 1110131

QC Batch: INOR/61899 **Analysis Method:** SM 3500CaB Calcium
QC Batch Method: SM 3500CaB Calcium
Associated Lab Samples: 7109201, 7109202

METHOD BLANK: 277474

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Calcium	mg/L	<2.50	2.50	

LABORATORY CONTROL SAMPLE: 277476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Qualifiers
Calcium	mg/L	20	20.3	102	80 - 120	

MATRIX SPIKE: 277478 DUPLICATE: 277479 ORIGINAL: 7109201

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifie
Calcium	mg/L	95.4	20	115	116	98	103	80 - 120	5	20	1



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T104704200-18-17

QUALITY CONTROL DATA QUALIFIERS

Workorder: 71092 Granbury Mine PWS 1110131

QUALITY CONTROL PARAMETER QUALIFIERS

SQ5 Sample received with inadequate chemical preservation, but preserved by the laboratory.



Centralized Water and Wastewater Laboratory

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T104704200-18-17

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 71092 Granbury Mine PWS 1110131

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
7109201	Sample Port			EPA 300.0 PartA Anions	ORG/10780
7109202	3549 Monroe Hwy			EPA 300.0 PartA Anions	ORG/10780
7109201	Sample Port			SM 2320B Alkalinity	INOR/61799
7109202	3549 Monroe Hwy			SM 2320B Alkalinity	INOR/61799
7109201	Sample Port			SM 2510B Conductivity	INOR/61843
7109202	3549 Monroe Hwy			SM 2510B Conductivity	INOR/61843
7109201	Sample Port			SM 2540C TDS	INOR/61844
7109202	3549 Monroe Hwy			SM 2540C TDS	INOR/61844
7109201	Sample Port			SM 2340C Hardness	INOR/61856
7109202	3549 Monroe Hwy			SM 2340C Hardness	INOR/61856
7109201	Sample Port	SM 2130B Turbidity	MET/5376	EPA 200.8, ICP-MS Metals	MET/5384
7109202	3549 Monroe Hwy	SM 2130B Turbidity	MET/5376	EPA 200.8, ICP-MS Metals	MET/5384
7109201	Sample Port			SM 3500CaB Calcium	INOR/61899
7109202	3549 Monroe Hwy			SM 3500CaB Calcium	INOR/61899