

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO RD. WEST, TX 76691

ANALYTICAL REPORT**CLIENT IDENTIFICATION INFORMATION:**

DONALD GILBERT
 PO BOX 1800
 KILLEEN, TX 76540-1800
 CLIENT CONTACT: 254.681.9822

OCTOBER 2018 CENTRAL TEXAS COLLEGE DWQP

REPORT ID: CTCO-110918
LAB CONTACT: ANDREW JANEK
REPORT DATE: 11.9.18

FIELD DATA / SAMPLE DESCRIPTION

	DS01 EWQP BLDG 154 PUMP HOUSE	DS01 DSTWQP BLDG 118 VOC SKILLS	DS01 DSTWQP BLDG 157 FAC MANG
Collection Point			
Date/ Time Collected	10.4.18 / 12:06	10.4.18 / 12:16	10.4.18 / 12:31
Date/ Time received by Lab	10.4.18 / 17:33	10.4.18 / 17:33	10.4.18 / 17:33
Laboratory Sample ID	11037-18	11038-18	11039-18
Sampling Description/Procedure	Client Collected	Client Collected	Client Collected
Sample Type	Grab	Grab	Grab
Sample Matrix	Aqueous-PW	Aqueous-PW	Aqueous-PW
pH, SU SM ₂₀ 4500-H+B.	7.3	7.4	7.3
Temperature, C	26.9	26.6	28.7
Collector	D. Gilbert	D. Gilbert	D. Gilbert

PARAMETER / UNIT / METHOD

Chloride, mg/L EPA-300.0	33.1	31.7	34.2
Reporting Limit, mg/L	1.00	1.00	1.00
Dilution Factor	10	10	10
Date / Time Analyzed	10.9.18 / 19:44	10.9.18 / 19:24	10.9.18 / 20:04
Analyst Initials	JLJ	JLJ	JLJ

Conductivity, umhos SM ₂₀ 2510-B	385.	391.	390.
Reporting Limit, umhos	100.	10.	10.
Dilution Factor	1	1	1
Date / Time Analyzed	10.10.18 / 15:30	10.10.18 / 15:30	10.10.18 / 15:30
Analyst Initials	AJ	AJ	AJ

Sulfate, mg/L EPA-300.0	25.3	24.8	24.5
Reporting Limit, mg/L	1.00	1.00	1.00
Dilution Factor	10	10	10
Date / Time Analyzed	10.9.18 / 19:44	10.9.18 / 19:24	10.9.18 / 20:04
Analyst Initials	JLJ	JLJ	JLJ

Total Dissolved Solids, mg SM ₂₀ 2540-C	224.	238.	254.
Reporting Limit, mg/L	20.	20.	20.
Dilution Factor	1	1	1
Date / Time Analyzed	10.8.18 / 17:45	10.8.18 / 17:45	10.8.18 / 17:45
Analyst Initials	SH	SH	SH

ANALYTICAL NOTES, INTERPRETATIONS, METHOD DEVIATIONS OR ENVIRONMENTAL CONDITIONS :

NONE TO REPORT

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QC SUMMARY**CHLORIDE**

SETUP DATE	SEQUENCE ID		ANALYST	
10.9.18	IC-100918-05		JLJ	
SAMPLE ID	RESULT 1	RESULT 2		% DEV
11122-18	226.6	225.3		0.3
11184-18	208.7	208.9		0.0
SPIKE ID:	RESULT 1	RESULT 2		% REC
11122-18	226.6	414.6		94.0
11184-18	208.7	404.7		98.0
IPCS-1 % REC	94.0	IPCS-2 % REC	96.9	
LCS % REC	90.8	LCSD % REC	91.2	
BLANK, mg/L	ND	QCS % REC	-----	

CONDUCTIVITY

SETUP DATE	SETUP ID		ANALYST	
10.10.18	EC-101018-02		AJ	
SAMPLE ID	RESULT 1	RESULT 2		% DEV
11037-18	385	388		0.4
50271964	1450	1400		1.8
LCS % REC	102.8	LCSD % REC	99.3	
BLANK, mg/L	ND	QCS % REC	-----	

SULFATE

SETUP DATE	SEQUENCE ID		ANALYST	
10.9.18	IC-100918-05		JLJ	
SAMPLE ID	RESULT 1	RESULT 2		% DEV
11122-18	102.1	102.9		0.4
11184-18	115.7	115.1		0.3
SPIKE ID:	RESULT 1	RESULT 2		% REC
11122-18	102.1	295.5		96.7
11184-18	115.7	311.6		98.0
IPCS-1 % REC	97.7	IPCS-2 % REC	100.4	
LCS % REC	96.5	LCSD % REC	96.6	
BLANK, mg/L	ND	QCS % REC	-----	

TDS

DATE	SETUP ID	BATCH ID	ANALYST
10.8.18	DS-100818-05	DS-100818-05-01	SH
SAMPLE ID:	RESULT 1	RESULT 2	% DEV
11026-18	456	476	2.1
SPIKE ID:	RESULT 1	RESULT 2	% REC
11037-18	244	752	101.6
BLANK, mg/L	ND	LCS, %REC	100.9

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QC SUMMARY**QC DATA LEGEND - ACCEPTABLE RANGES****ANION ANALYSIS**

% DEV: PRECISION ACCEPTABLE RANGE 0-10%

BLANK: LESS THAN 0.10 mg/L OF TARGET ANION

LCS % REC/ QCS: ACCEPTABLE RECOVERY 90-110%

MS % REC: ACCEPTABLE RECOVERY 80-120% (SPIKE)

IPCS-1 % REC: ACCEPTABLE RECOVERY 90-110% (INSTRUMENT PERFORMANCE CHECK / INITIAL

IPCS-2 % REC: ACCEPTABLE RECOVERY 90-110% (INSTRUMENT PERFORMANCE CHECK / FINAL

TDS ANALYSIS

% DEV: PRECISION ACCEPTABLE RANGE 0-10%

LCS % REC: ACCEPTABLE RECOVERY 80-120%

MS % REC: ACCEPTABLE RECOVERY 80-120%

BLANK: < 0.0005 g

QC DATA LEGEND - ANALYTICAL FLAGS / QUALIFIERS

Q1: BLANK OUTSIDE METHOD SPECIFIED LIMITS

Q2: LCS / STANDARD OUTSIDE METHOD SPECIFIED LIMITS

Q3: MATRIX SPIKE/ MATRIX SPIKE DUPLICATE OUTSIDE METHOD SPECIFIED LIMITS

Q4: PRECISION / DUPLICATE OUTSIDE METHOD SPECIFIED LIMITS

QM: MICRO QUALIFIER: SEE INCLUDED NARRATIVE

STATEMENT OF COMPLIANCE/NON-COMPLIANCE:

The above analytical data was derived from submitted samples that have met all established acceptance criteria, unless otherwise qualified, and are compliant with the laboratory's Quality System. The Director of Operations or designee has authorized the release of this report. The results contained herein relate only to the Laboratory Sample ID(s) documented above. This analytical test report may not be reproduced except in full, without the written approval of the laboratory.

Quality Assurance / Quality Control Data associated with results within this report are documented in the attached QA/QC Report.

Please contact 254.829.8001 with any questions or concerns.



Andrew Janek, Technical Director
 Bio Chem Lab, Inc.

**DATA QUALIFIERS**

HT- Holding Time **T**-Thermal preservation **P**- pH Preservation **V**- Sample Volume Inadequate **ND**- Not Detected
O- Outside of Laboratory's Accreditation **L**- Laboratory Error **Q**- Failed Quality Data

ANALYTICAL REPORT

OCTOBER 2018 CENTRAL TEXAS COLLEGE DWQP

REPORT ID:	CTCO-110918
LAB CONTACT:	ANDREW JANEK
REPORT DATE:	11.9.18

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY PARAMETER MONITORING FORM 20679									
Completed by PWS (or Agent)					Completed by Laboratory				
PWS Name:		CENTRAL TEXAS COLLEGE KILLEEN			Laboratory Name:		Bio Chem Lab		
PWS ID#:		TX 0140174			TCEQ Lab ID #:		TX257		
PWS Address:		P.O. BOX 1800 KILLEEN, TX 76540			Laboratory Address:		P.O. Box 356 West, Tx. 76691		
PWS Contact:		DONALD GILBERT			Laboratory Contact:		Andy Janek		
PWS Contact Phone #:		(254) 681-9822			Laboratory Contact Phone #:		254-829-8001		
Inhibitor or Stabilizer Used (Y/N):		Alkalinity Dosage Rate:		Phosphate Dosage Rate:	Silica		Calcium carbonate		
TREATMENT		Sample Information		Inhibitor Dosage Rate:					
Sample Type (Y/N):		Compliance		Non-compliance					
Sample Collector (Y/N):		Public Water System		Accredited Lab		3rd Party Contractor --> LAB ID: AL			
Temperature and pH (Y or N):		X		X		Were temperature and pH measured in the field within 15 minutes of sample collection?			
Sample Point ID (e.g., DSTWQP, BLDG154, etc.)		Sample Location		Date (MMDDYY)		Time - 24 hr (HHMM)		pH	
DS01		BLDG 154 PUMP HOUSE		100418		1206		7.3	
DS01		BLDG118VOC SKILLS		100418		1216		7.4	
DS01		BLDG157EAC MANG		100418		1231		7.3	
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