



ELAP#2647

Project Name:OpenAWG

Sample Received:2/29/15 @ 14:50
Sample Analyzed:2/29/16 to 3/04/16
Reporting Date:3/08/16
Matrix: Drinking water
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Case Narrative

This report presents the results of the analysis of the drinking water samples received on 2/29/2016.

Analysis were conducted according to approved ELAP Methods. All QA/QC requirements were met and no anomalies associated with the analysis of these sample(s) were observed.

Reviewed by:

A handwritten signature in black ink, appearing to read 'Yeggie Dearborn', written over a horizontal line.

Yeggie Dearborn, Ph.D.
Laboratory Director



ELAP# 2647

Project Name:OpenAWG

Sample Received:2/29/16 @ 14:50

Sample Analyzed:2/29/16

Reporting Date:3/08/16

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Analyst: MW

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Standard turn around

Laboratory Report pH and Turbidity

		Results	
Lab ID	Sample ID/Description	pH (unit)	Turbidity (NTU)
01	Effluent-discharge	9.10	1.96

Parameter	Laboratory Reporting Limit	Method
pH	unit	SM4500H*B
Turbidity	0.1 NTU	SM2130B

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Laboratory Director



ELAP# 2647

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Analyst:ST

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Standard turn around

Laboratory Report Metals

Analyte	Reporting Limit	unit	Results	
			01	Effluent discharge
Aluminum	0.005	mg/L	0.013	
Antimony	0.005	mg/L	ND	
Arsenic	0.005	mg/L	ND	
Barium	0.005	mg/L	ND	
Beryllium	0.005	mg/L	ND	
Cadmium	0.005	mg/L	ND	
Chromium total	0.005	mg/L	ND	
Copper	0.005	mg/L	ND	
Iron	0.005	mg/L	0.010	
Lead	0.005	mg/L	ND	
Nickel	0.005	mg/L	ND	
Selenium	0.005	mg/L	ND	
Silver	0.005	mg/L	ND	
Thallium	0.005	mg/L	ND	

ND=Not Detected

Parameter	Method
Metals	EPA200.7

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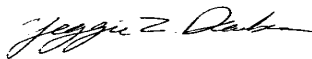
Standard turn around

Laboratory Report Mineral

Analyte	Reporting Limit	unit	Results
			01 Effluent-discharge
Calcium	0.005	mg/L	5.012
Potassium	0.005	mg/L	0.214
Sodium	0.005	mg/L	0.502

Parameter	Method
Minerals	EPA200.7

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cel analytical, inc.

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Standard turn around

Laboratory Report

Total Coliform/*E.Coli* SM9223B

Lab ID	Sample	Location/ID	Sample Date/Time	Results	
				Total Coliforms/100mL	<i>E.Coli</i> /100mL
01	Effluent-discharge		2/28/2016 23:30	A	A

P=Present, A=Absent

Reviewed by:

Yeggie Dearborn, Ph.D.

Laboratory Director



Quality Control Summary Report

Turbidity

Method SM2130B

LFB=Laboratory Fortified Blank Sample

Dup=duplicate analysis

LFBD=Laboratory Fortified Blank Sample

RPD=Relative percent (%) difference of duplicate analysis

Analyte	Reporting Limit NTU	Spike Added	Spike Dup Added	LFB Reading	LFBD Reading	RPD%
Turbidity	0.1	15.0	15.0	15.1	15.1	0.0

pH

Method SM4500H+B

Lab ID	Sample ID/Description	unit	Cell K (value/cm)
Std.1	pH4 Buffer	4.01	97.9
Std.2	pH7 Buffer	7.02	97.9
Std.3	pH10 Buffer	10.04	97.9

Reviewed by:

Yeggie Dearborn, Ph.D.

Laboratory Director



Quality Control Report

Metals Method EPA200.7

RPD=Relative percent (%) difference of duplicate analysis

LFB=Laboratory Fortified Blank

Matrix Spike Blank

LFBD=Laboratory Fortified Blank Duplicate

Analyte	Reporting Limit (mg/L)	Sample results (mg/L)	Spike added (mg/L)	LFB results (mg/L)	LFBD Results (mg/L)	LFB % recovery	LFBD % Recovery	%RPD
Aluminum	0.005	ND	0.5	0.491	0.493	98.2	98.6	0.4
Antimony	0.005	ND	0.5	0.491	0.491	98.2	98.2	0.0
Arsenic	0.005	ND	0.5	0.479	0.485	95.8	97	1.2
Barium	0.005	ND	0.5	0.518	0.520	103.6	104	0.4
Beryllium	0.005	ND	0.5	0.505	0.519	101	103.8	2.7
Cadmium	0.005	ND	0.5	0.489	0.498	97.8	99.6	1.8
Chromium Total	0.005	ND	0.5	0.504	0.508	100.8	101.6	0.8
Copper	0.005	ND	0.5	0.528	0.532	105.6	106.4	0.8
Iron	0.005	ND	0.5	0.528	0.540	105.6	108	2.2
Lead	0.005	ND	0.5	0.489	0.497	97.8	99.4	1.6
Nickel	0.005	ND	0.5	0.498	0.502	99.6	100.4	0.8
Selenium	0.005	ND	0.5	0.471	0.474	94.2	94.8	0.6
Silver	0.005	ND	0.5	0.492	0.500	98.4	100	1.6
Thallium	0.005	ND	0.5	0.487	0.493	97.4	98.6	1.2

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cel analytical, inc.

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Quality Control Report

Minerals Method EPA200.7

RPD=Relative percent (%) difference of duplicate analysis

Matrix Spike Blank

LFB=Laboratory Fortified Blank

LFBD=Laboratory Fortified Blank Duplicate

Analyte	Reporting Limit (mg/L)	Sample results (mg/L)	Spike added (mg/L)	LFB results (mg/L)	LFBD Results (mg/L)	LFB % recovery	LFBD % Recovery	%RPD
Calcium	0.005	ND	0.5	0.509	0.512	101.8	102.4	0.6
Potassium	0.005	ND	0.5	0.493	0.495	98.6	99	0.4
Sodium	0.005	ND	0.5	0.511	0.500	102.2	100	2.2

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Quality Control Report

Total Coliform/E.Coli Present/Absent SM9223B

LFSP=Laboratory Fortified Sample Positive

Laboratory ID	Total Coliform/100mL	E.Coli/100mL
Laboratory Blank	A	A
LFSP	P	P

P=Present, A=Absent

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