## CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

**OCTOBER 2016** 

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#### **CITY COUNCIL**

JIM GAZELEY MARK WARONEK HENRY SANCHEZ, JR MICHAEL G. SAVIDAN BEN TRAINA



#### **ADMINISTRATION**

RYAN SMOOT
CITY MANAGER

## **CITY OF LOMITA**

November 10, 2016

Mr. Paul Williams, P.E.
District Engineer – Hollywood District
State Water Resources Control Board – Division of Drinking Water
500 North Central Avenue, Suite 500
Glendale, CA 91203

<u>Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of October 1 through October 31, 2016.</u>

Dear Mr. Williams,

In accordance with the Department of Public Health temporary approval letter dated March 15, 2013 and Permit Amendment No. 1910073, I am submitting the following report for the Cypress Water Production Facility operations for the month of October 2016.

If you should have any questions or concerns, please contact me at 310-325-7110 x124.

Sincerely,

Mark A. McAvoy, P.E.

Mark Making

Public Works Director/City Engineer

#### A. BACKGROUND

On March 15, 2013, the City of Lomita received conditional approval from the Department of Public Health (DPH) to distribute blended water from the Cypress Water Production Facility (CWPF) Well No. 5 to the City's customers.

The CWPF is an iron-manganese greensand filtration treatment system designed to remove primarily iron, manganese, and color. The CWPF was recently modified to enable aeration and blending with Metropolitan Water District (MWD) imported water to address the aesthetic secondary issues of Total Dissolved Solids (TDS), Hardness (as Calcium Carbonate), and Taste/Odor.

The CWPF came online on April 1, 2013. The first week of operations from April 1 to April 5, 2013 was utilized for conducting routine startup activities. The distribution of blended water to the City's residents began on April 5, 2013.

#### **B. WELL PRODUCTION**

The CWPF operated continuously for the final week of October 2016 maintaining water levels inside the reservoir ranging from 7' to 10'. The average flow from Well No. 5 was 410 gpm and 550 gpm from MWD. The blend ratio for the final week of October 2016 was 44% Well water and 56% MWD water. See Table 1 below for production totals for the month of October 2016.

		<b>Production</b>	for October 2016
Well No. 5	16.98	ac-ft	(739,608 gallons)
MWD	21.47	ac-ft	(6,995,000 gallons)
Combined Total	38.45	ac-ft	(12,527,264 gallons)
Daily	5.49	ac-ft/day	(1,789,609 gallons/day)

#### **C. OPERATIONAL INTERRUPTIONS**

The CWPF was taken offline during the months of August, September and the first three weeks of October 2016. The CWPF was put back online on October 24, 2016 and water was released into Zone I on October 25, 2016. No major planned operational interruptions are anticipated for the following month.

#### D. SAMPLE LOCATIONS

Compliance monitoring is performed at the following sample locations: SP1, SP2, SP3, SP5, and SP6. The SP1 sample location is the raw well water sample location. The SP2 sample location is on the effluent side of the greensand filter (before ammonia injection or full chloramination). The SP3 sample location is downstream of the greensand filter after full chloramination and the static mixer before entering the reservoir. The SP5 sample location is the reservoir effluent sample location before entering the distribution system. The SP6 sample location is the MWD source sample location before blending occurs.

#### **E. WATER QUALITY MONITORING**

All water quality monitoring analyses were performed by laboratories certified by the Department of Health's Environmental Laboratory Accreditation Branch (ELAB). The CWPF has been continuously monitored, maintained and inspected, per the CWPF Operations Monitoring and Maintenance Plan. A brief discussion of the laboratory and/or monitoring results is provided below. Refer to Appendix A for laboratory results.

### **E1. IRON, MANGANESE AND COLOR**

See Table 2 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color for raw water (SP1) was at the MCL. Iron and Manganese in the raw water (SP1) for the month were below the MCL. Iron and Manganese levels entering the reservoir (SP3) show non-detect, indicating the greensand filtration system remains highly effective.

#### **E2. FREE AND TOTAL CHLORINE RESIDUALS**

Daily free chlorine residuals were monitored at SP2, SP3, SP4 and SP5. Daily total chlorine residuals were monitored at SP3, SP4 and SP5. Free chlorine and total chlorine residuals, at all respective sample points, were monitored using a combination of continuous chlorine analyzers and SCADA. See Table 3 below for a weekly summary of results.

#### E3. TOTAL DISSOLVED SOLIDS (TDS), ODOR, HARDNESS AND METHANE

See Table 4 below for a summary of the results for the monitoring of Total Dissolved Solids (TDS), Odor (as measured by the Threshold Odor No. - T.O.N.), Total Hardness as Calcium Carbonate, and Methane levels in water at three sample locations SP1, SP5 and SP6.

#### E3-1 TOTAL DISSOLVED SOLIDS (TDS)

The sampling results indicate the TDS levels of the effluent blended water to be on average 610 mg/L. The TDS level of the effluent water meets the City's Water Quality Objective/Goal of 500 to 750 mg/L. The sampling results indicate the TDS levels in the raw water and MWD water source to be 727 mg/L and 543 mg/L, respectively.

#### E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 310 mg/L. Although, this hardness level is in the upper range of the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the water distribution system. The City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

Staff continues to use an orthophosphate/polyphosphate additive to sequester calcium hardness. Orthophosphate/Polyphosphate is a food grade National Sanitation Foundation (NSF 60) approved additive which decreases iron tuberculation, diminishes calcium scale deposits, minimizes corrosion, reduces discoloration, reduces staining and mineral build-up resulting in fewer customer complaints.

### E3-3 DISSOLVED METHANE (IN WATER)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.35 mg/L.

#### E3-4 METHANE (IN AIR)

The methane levels in the reservoir headspace are monitored daily by staff using a handheld device. These readings have consistently read non-detect to low concentrations for methane in air. Available methane hand held monitoring instruments can only detect levels of 1% Lower Explosive Limit (LEL) or greater. The handheld methane readings during the month were below the 50,000 ppm LEL. See attached methane log for the month of October 2016 in Appendix B.

#### **E3-5 ODOR**

The odor levels at the CWPF effluent averaged 4 units for the month.

#### **E4. NITRIFICATION MONITORING**

Weekly Nitrification sampling was performed during the month of October 2016, see Appendix C.

#### F. TABLES

Table 2. Monitoring Results for SP1, SP2, and SP3 Sample Locations.

		SP1, W	/ell Raw	Water	Discha	irge		SP2, 0 Press Et		ilter	SP3, A		nloramina eservoir		tatic mix	ær;
Date, week of	Iron, ug/L	*MCL = 3 00 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
10/5/2016	520	300	110	50	15	15	Α	-	-	500	빌	-	Щ	-	ЭZ	-
10/12/2016	300	300	140	50	15	15	Α				OFFLINE	-	OFFLINE	-	OFFLINE	-
10/19/2016	310	300	150	50	10	15	Α				P	-	Q	-	OF	-
10/26/2016											ND	300	ND	50	ND	15

Notes:

Monthly- Orange; Weekly- Yellow

A – Absent ND – Non Detect

 $\hbox{$^*$Per the SWRCB Drinking Water "Chemicals and Contaminants in Drinking Water" Regulations}$ 

Table 3. Monitoring Results for Free and Total Chlorine at SP2, SP3, SP4 and SP5 Sample Locations.

	SP2		SP3			SP4			SP5	
Date, week of	Free CI	Free CI	Total CI	Total NH₃	Free CI	Total CI	Total NH₃	Free CI	Total CI	Total NH₃
10/5/2016	NE	N N	NE	INE	INE	INE	ΔĒ	NE	INE	INE
10/12/2016	FFLIN	Į.	FLII	FLI	FFLII	FLII	FLI	il.	FLII	FLI
10/19/2016	O	Q	O	9	Q	OF	OF	Q	O	9
10/26/2016	4.26	0.44	3.26	0.82	0.25	2.87	0.61	0.05	2.23	0.56

Table 4. Monitoring Requirements and Frequencies for SP1, SP5, and SP6.

		TDS	S, mg/L		т.о	.N.		Hardn	ess, mg	<sub>J</sub> /L		hane r), mg/L
Date, week of	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 500 - 750 mg/L	SP5 - Reservoir Effluent	MCL= 3	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 180 - 250 mg/L	SP1 - Raw Well Water	SP5 - Reservoir Effluent
10/5/2016	740	470	빌	-	빌	-	290	210			3.7	빌
10/12/2016	720	620	OFFLINE	-	OFFLINE	-	300	250			3.7	OFFLINE
10/19/2016	720	540	P	-	Р	-	330	240			3.8	P
10/26/2016			610	500-750	4	3			310	180-250		0.35
Average	727	543	610	500-750	4	3	307	233	285	180-250	3.7	0.35

#### Notes:

Monthly- Orange; Weekly- Yellow

ppm – parts per million mg/L – milligram per liter

T.O.N. - Threshold Odor Number

TDS - Total Dissolved Solids Hardness - As total CaCO3

Methane (Water) - Methane dissolved in water

\*Hardness read missed during the last week of October 2016. Result from 11/2/16 was used to substitute in for the missed result. Additional sample will be taken in November 2016.

# Monthly CWPF Monitoring Report – OCTOBER 2016 Cypress Water Production Facility City of Lomita; System No. 1910073

Sample Locations	Frequency	MCL/	10/5	10/12	10/19	10/26		Comments
and Parameters		Goal	1stWk	2 <sup>nd</sup> Wk	3rdWk	4 <sup>th</sup> Wk	5 <sup>th</sup> Wk	and/or
			13000	Z VVK	JIGVVK	7 771	J WK	Other Info.
			or Mo.					Other mile.
			Result					
			(date)					
SP1 Also called	Well 5 Rav	Water o	or Site#1.					
TDS, ppm	Monthly	See SP5	727	Operations	Data/Inforn	nation:		*Chlorine injected after
	NA (1.1	See SP5	Avg	CWPF opera	ation days			SP1, before entering the greensand filter.
Hardness	Monthly		307 Avg	'		flow - <mark>410</mark> gpm	o total prod	* THE CWPF WAS OFFLINE DURING
CH4, ppm	Monthly	See SP5	<b>3.7</b> Avg	- 16.98 AF	-	ata: Average V		THE 1 <sup>ST</sup> THREE WEEKS OF
Iron, ppb	Monthly	See SP3	<b>378</b> Avg	blend Ratio - 38.45 AF	- 44% WELL:5	6% MWD; tota	al prod	OCTOBER. THE CWPF WAS PUT
Manganese, ppb	Monthly	See SP3	133 Avg		sage: N/A*			BACK ONLINE ON OCTOBER 24, 2015
Color, units	Monthly	See SP3	13 Avg	Official De	sage. IVA			AND RELEASED WATER INTO ZONE I
Total Coliform, P or A	Monthly	Α	A Ava					ON OCTOBER 25, 2016.
SP2 Also called	Filter Efflu	ent or Si						
Total Coliform, P or A	Monthly	A	-					*Ammonia added after
HPC,MPN/100 mI	Monthly	500	-	Ammonia D	osage: N/A*			filter effluent
Free Cl Res, ppm	Continuous		4.26; Ran	ge: 4.26 – 4	.26			
SP3 Also called	the Site Af					endina or	Site#4.	•
Iron, ppb	Weekly	300	_	-	-	ND	<u> </u>	
Manganese, ppb	Weekly	50	_	_	_	ND		
Color	Weekly	15	-	_	-	ND		
Free and Total Cl Res,	Continuous		Average: 0.4	4; Range:		110		
ppm		Total Cl: A	Average: 3.2	6; Range:				
				.82; Range:				
SP4 Also called	Reservoir				WD Water	Blend Po	int/Phosp	hate Injection.
Phosphate Injection			e Dosage: 1					
Free and Total CI Res,	Continuous	Free CI:	Average: 0.2	5; Range:				CI/NH3 Ratio:
ppm			Average: 2.8	.61; Range:				4.75
SP5 Also called	Posorvoir				harace in	to Zono 1	of the dis	tribution eyetom
	_	SI Goal:	or Site#3.	J G G G G	narges in	lo Zone i	or the dis	Tibulion system.
TDS, ppm	Weekly	500-750ppm	-	-	-	610		
Hardness	Monthly	SI Goal: 180-250ppm	-	-	-	310		
CH4, ppm	Weekly	Goal: from PA	-	-	-	0.35		% CH4 Removal: 91%
Odor, units	Monthly	1	-	-	-	4		
Free and Total CI Res,	Continuous		Average: 0.0		-	-	-	CI/NH3 Ratio:
ppm			Average: 2.2					4.00
Headspace of the C	L Cynress Re		: Average: 0	. <u>56;</u> Range:				
<sup>1</sup> CH4 ppmv; using	Daily	Goal -	CH4 Aver	age: 0.14%				1
Portable Device	(from log)	LEL		nge: 0% - 1%				
SP 6 MWD Source	<u> </u>		1			ribution s	vstem or	Site #6
TDS, ppm	Monthly		543	Lone	l the dist			
Hardness	Monthly		233	<del>                                     </del>				1
	,				L 100 5 = 5			<u> </u>
Notes: ¹Self-Imposed (SI) G ***This Report is du						n.		

Other Notes/Comments: (1) See comments on the last column

## **APPENDIX A**

LABORATORY RESULTS



21 October 2016 Clinical Lab No.: 16J0544

Mark Andersen Lomita, City of 24373 Walnut Avenue Lomita, CA 91717

Project Name: Standard Analysis

Sub Project: Monthly Compliance / Weekly 1st Week October

Enclosed are the results of the analyses for samples received at the laboratory on 10/05/16 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProject:Standard AnalysisWork Order:16J054424373 Walnut AvenueSub Project:Monthly Compliance / Weekly 1st Week OctoberReceived:10/05/16 17:00Lomita CA, 91717Project Manager:Mark AndersenReported:10/21/16

16J0544-01 (Water) 10/05/16 9:00 DGM Raw Water Site #1 **Sample Date:** Sampler: Analyte Method Result MCL Units Prepared Analyzed Batch Qualifier Rep. Limit Field Analyses 10/05/16 10/05/16 1641414 Field 8.5 pH (Field) N/A pH Units Temperature (Field) Field 22.5 N/A °C 10/05/16 10/05/16 1641414 **Microbiology Analyses** Total Coliform SM 9223 10/05/16 10/06/16 1641334 Α N/A P/A SM 9223 10/05/16 1641334 E. Coli Α 10/06/16 N/A P/A SM9215B 10/05/16 10/07/16 1641442 Plate Count ND 1 500 CFU/ml **General Physical Analyses Apparent Color** SM 2120B 15.0 3.0 Color Units 10/05/16 10/05/16 1641355 15 **General Chemical Analyses** Calculated Hardness, Total (as CaCO3) 290 10/13/16 10/13/16 [CALC] 6.6 N/A mg/L SM 2540C 10/12/16 10/17/16 1642173 Total Filterable Residue/TDS 740 5.0 1000 mg/L Metals EPA 200.7 10/13/16 10/13/16 1642253 Calcium (Ca) 75 1.0 N/A mg/L EPA 200.7 **520** 10/14/16 10/14/16 1642395 Iron (Fe) 200 300 ug/L EPA 200.7 25 10/13/16 10/13/16 1642253 Magnesium (Mg) 1.0 N/A mg/L 10/14/16 10/14/16 1642395 Manganese (Mn) EPA 200.7 110 40 ug/L **Zone #2 Site #6** 16J0544-02 (Water) 10/05/16 9:30 DGM **Sample Date:** Sampler: Analyte Method Result Batch Prepared Analyzed Qualifier Rep. Limit MCL Units Field Analyses Field 2.1 10/05/16 10/05/16 1642045 Cl Res Total (Field) N/A mg/LField pH (Field) 8.5 10/05/16 10/05/16 1641414 N/A pH Units Temperature (Field) Field 22.5 10/05/16 10/05/16 1641414 N/A °C **General Chemical Analyses** Hardness, Total (as CaCO3) Calculated 210 6.6 10/10/16 10/10/16 [CALC] N/A mg/L SM 2540C 10/12/16 10/17/16 Total Filterable Residue/TDS 470 5.0 1000 mg/L 1642173 Metals EPA 200.7 10/10/16 10/10/16 1641370 52 Calcium (Ca) 1.0 N/A mg/L EPA 200.7 10/10/16 10/10/16 1641370 19 Magnesium (Mg) 1.0 N/A mg/L

Analyte NOT DETECTED at or above the reporting limit



## Certificate of Analysis

FINAL REPORT

**Work Orders:** 6J07042 **Report Date:** 10/24/2016

**Received Date:** 10/7/2016

Turnaround Time: 7 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

**Project:** 16J0544

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.

21881 Barton Road

Grand Terrace, CA 92313

#### Dear John Styles,

Enclosed are the results of analyses for samples received 10/07/16 with the Chain-of-Custody document. The samples were received in good condition, at 3.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.



6J07042 Page 1 of 2



**Definition** 

## Certificate of Analysis

**FINAL REPORT** 



## **Notes and Definitions**

	= <del></del>
S_AIR	Analysis subcontracted to Air Technology Laboratories, Inc., NELAP Certificate # E87847
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.



## Not Certified Analyses Summary

Analyte	CAS#	Not Accredited By
RSK-175 in Water		
Methane	74-82-8	NELAP

Reviewed by:

**Brandon Gee** 

Operations Manager/Senior PM









Dod-elap #L15-366 • Elap-ca #1132 • Epa-ucmr #Ca00211 • HW-doh # • ISO 17025 #L15-365 • Lacsd #10143 • Nelap-or #4047 • NJ-dep #Ca015 • NV-dep #Nac 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## SUBCONTRACT ORDER

## Clinical Laboratory of San Bernardino 16J0544

6J07047

Report in mg/L

#### RECEIVING LABORATORY: SENDING LABORATORY: Weck Lab, Analytical & Environmental Clinical Laboratory of San Bernardino Analytical & Environmental Svc 14859 E Clark Ave 21881 Barton Road Industry, CA 91745 Grand Terrace, CA 92313 Phone: (626) 336-2139 Phone: 909.825.7693 Fax: (626) 336-2634 Fax: 909.825.7696 Project Manager: Stu Styles Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [Vstyles@clinical-lab.com [] nelson@clinical-lab.com California EDT transfer those samples with PS codes provided [ ] Yes [ No []Yes [No Water Trax Upload Client: \_\_\_\_\_ [\sqrt{10 Days} [ ] 5 Days [ ] Other \_\_ Days Turn Around Time Subcontract Comments: Comments Analysis Sampled: 10/05/16 09:00 PS Code: Sample ID: Raw Water Site #1 / 16J0544-01 WTX ID: Water

40mL Amber Vial w/ Na2S2O3 (C)

Methane RSK175 Containers Supplied:

40mL Amber Vial w/ Na2S2O3 (B)

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Cti	nical Lab	soratory	Clinical Laboratory of San Bernardino, Inc.	ис.			h450 E91	として		\$·				C -	Chain of Custody	
Client			City of Lomita	Sys	stem N	System Number		Analysis		Requested	ted					
Address		24	24373 Walnut Avenue		707	10072										
	,		Lomita, CA 91717		<u>D</u> .,	0.700161							M			
Phone #			(310) 325-9830	a	estinatic	Destination Laboratory	tory				Не		etha			
Fax#	•		(310) 325-3627	ت	X] Clinic	[X] Clinical Laboratory	tory			Т	tetr		ane			
Project			Standard Analysis		3WQCB	RWQCB Compliance	ey									
9.0		Monthly C	Monthly Compliance/ Weekly 1st week			YES			E. C			Ode Cole				
Sub Project			Aug			ELAP#				lifo				ness		
Comments		- •			•	000		nese Solic		rm	e Cou		(RS			
Sampled by			DGM		_	0001			-		ınt	-	K175			
Date	Time	Sa	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine						)		PLANT OFF LINE SCADA UPGRADE	A
10/5/2016	4994		Raw Water Site #1	GW	<u>*</u>	N/A	A/X	×				×			PH 8 50 TEMP 22.5	\ \n
10/5/2016	Ø260		Raw Water Site #1	GW	<u>%</u>	2,7			×	×	×		×	×		
10/5/2016			Raw Water Site #1	GW	1W	1,7										
		Filter Ei	Filter Effluent (Free Chlorine) Site#2	DW	1W	1,7										
		Filter Ef	Filter Effluent (Total Chlorinc) Sitc#3	DW	1W	N/A										
1015/16	DE63		Zone #2 Site #6	DW	1D	N/A	7.7	Х					H	×	PH 8.50 TEMP 22.5	9
,									-				$\dashv$	_		
		Re	Reservoir Effluent Site #5	DW	1D	A/N										
		Re	Reservoir Effluent Site #5	DW	1D	2,7										
Preservatives	Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3	(2) HCI (3) HI	NO3 (4) NH4CI		Mat	rix: DW-Di	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, Tyne, 4-Poutine, 2-Repost 3-Resiscement 4-Special	er, WW-Was	Waste	Water	, SW-Ste	Storm	rm Water	, GW- GI	GW- Ground Water, A-Air	
67U (C)	(a) hzso4 (b) wazso3 (7) cold (b) other.	(c) cold (d)				36.			' I 🔪		عرا				10 2.4 AT	
Veam	Keunquishea by (Sign)	(ugnc	Frint Name / Company			Date / 11me	ıme	+		vecepve V		(uSic)		+		
Daniel Mareik	P	hah	City of Lomita, CA		10/5/2016	910	1:15	1	7		$\stackrel{>}{\vdash}$			17	MCAD/CDR	
	7		J. Luceno Cust		15/01	, 9	1700	$\mathcal{F}$			1/2	7		$\mathcal{A}$	km,	
Comments	<b>S</b>				-	Sample	Samples received:	X	Series Series	$\bigvee_{\mathbf{g}}$	) Int	Intack F	C (	Cust	Custody seals Temp 6	
Shipped Via			[ ] Fed X [ ] Golden State	-	] UPS [	] C'lient	[ ] Other							P.	Page_1_ of_1_	

# "Your Water and Wastewater Analysis Solution"



27 October 2016 Clinical Lab No.: 16J1058

Mark Andersen Lomita, City of 24373 Walnut Avenue Lomita, CA 91717

Project Name: Standard Analysis

Sub Project: CWPF 2ND Week OCT Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 10/12/16. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

Stu Styles

Client Services Manager



Lomita, City of Project: Standard Analysis Work Order: Sub Project: CWPF 2ND Week OCT Sampling 24373 Walnut Avenue

Lomita CA, 91717 Project Manager: Mark Andersen Received: 10/12/16 16:00 10/27/16 Reported:

Reservoir Influent Site #1		16J1058-0	1 (Water)		Sample Date	: 10/12/16	9:30	Sampler: CE	3
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
pH (Field)	Field	7.55		N/A	pH Units	10/12/16	10/12/16	1642396	
Temperature (Field)	Field	22.2		N/A	°C	10/12/16	10/12/16	1642396	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	10/12/16	10/13/16	1642323	
E. Coli	SM 9223	A		N/A	P/A	10/12/16	10/13/16	1642323	
Plate Count	SM9215B	15	1	500	CFU/ml	10/12/16	10/14/16	1642413	
General Physical Analyses									
Apparent Color	SM 2120B	15.0	3.0	15	Color Units	10/12/16	10/12/16	1642331	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	300	6.6	N/A	mg/L	10/19/16	10/19/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	720	5.0	1000	mg/L	10/18/16	10/20/16	1643084	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	79	1.0	N/A	mg/L	10/19/16	10/19/16	1643067	
Iron (Fe)	EPA 200.7	300	100	300	ug/L	10/21/16	10/21/16	1643306	
Magnesium (Mg)	EPA 200.7	25	1.0	N/A	mg/L	10/19/16	10/19/16	1643067	
Manganese (Mn)	EPA 200.7	140	20	50	ug/L	10/21/16	10/21/16	1643306	
Reservoir Effluent Site #6		16J1058-0	2 (Water)		Sample Date	: 10/12/16	10:00	Sampler: CE	3
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.1		N/A	mg/L	10/12/16	10/12/16	1642396	
pH (Field)	Field	8.19		N/A	pH Units	10/12/16	10/12/16	1642396	
Temperature (Field)	Field	23.4		N/A	°C	10/12/16	10/12/16	1642396	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	250	6.6	N/A	mg/L	10/19/16	10/19/16	[CALC]	
Total Eiltonahla Dagidua/TDC	SM 2540C	620	5.0	1000	mg/L	10/18/16	10/20/16	1643084	
Total Filterable Residue/TDS									
Metals  Calcium (Ca)	EPA 200.7	60	1.0	N/A	mg/L	10/19/16	10/19/16	1643067	

## **EDT Transfer Confirmation 1**



Work Order: 16J1058 Report Date: 10/27/2016

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH	Syste	em: 191	.0073
WELL 05	Sta	ation No.: 1910073	-003	Sam	pled: 161012 09:30
COLOR	Result: 15.0	Units: UNITS	Entry No.:	00081	Analyzed: 161012
TOTAL HARDNESS (AS CACO3)	Result: 300	Units: MG/L	Entry No.:	00900	Analyzed: 161019
CALCIUM	Result: 79	Units: MG/L	Entry No.:	00916	Analyzed: 161019
MAGNESIUM	Result: 25	Units: MG/L	Entry No.:	00927	Analyzed: 161019
IRON	Result: 300	Units: UG/L	Entry No.:	01045	Analyzed: 161021
MANGANESE	Result: 140	Units: UG/L	Entry No.:	01055	Analyzed: 161021
TOTAL DISSOLVED SOLIDS	Result: 720	Units: MG/L	Entry No.:	70300	Analyzed: 161020



## Certificate of Analysis

FINAL REPORT

Work Orders: 6J14034

Project: 16J1058

10/24/2016 **Report Date:** 

**Received Date:** 

10/14/2016

**Turnaround Time:** 

5 workdays

Phones:

(909) 825-7693

Fax:

(909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.

21881 Barton Road

Grand Terrace, CA 92313

#### Dear John Styles,

Enclosed are the results of analyses for samples received 10/14/16 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.





Definition

## Certificate of Analysis

FINAL REPORT



## **Notes and Definitions**

S_AIR	Analysis subcontracted to Air Technology Laboratories, Inc., NELAP Certificate # E87847
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.  The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.



## Not Certified Analyses Summary

Analyte	CAS#	Not Accredited By
RSK-175 in Water		
Methane	74-82-8	NELAP

Reviewed by:

Brandon Gee

Operations Manager/Senior PM









Dod-elap #L15-366 • Elap-ca #1132 • Epa-ucmr #Ca00211 • HW-doh # • ISO 17025 #L15-365 • Lacsd #10143 • Nelap-or #4047 • NJ-dep #Ca015 • NV-dep #Nac 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## SUBCONTRACT ORDER

# Clinical Laboratory of San Bernardino 16J1058

6314034

SENDING LABORATORY:		RECEIVING LABORATORY:
Clinical Laboratory of San Berna 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	ardino	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone: (626) 336-2139 Fax: (626) 336-2634
Please email results to Project M  [ ] glaubig@clinical-lab.com  California EDT transfer the	[ ] ybarra@clinical-lab.com [	styles@clinical-lab.com [ ] nelson@clinical-lab.com
Water Trax Upload Client	hose samples with PS codes provit:	[] Yes [v] No
	Days [ 1/5 Days [ ] Other	
Analysis		Comments
Sample ID: Reservoir Influent Site	e #1 / 16J1058-01 Samp Wate	oled: 10/12/16 09:30 PS Code: 1910073-003 er WTX ID:
Methane RSK175		Report in mg/L
Methane RSK175 Containers Supplied:		Report in mg/L

2.3c 911

Bo Dly	10/14/16 07:50	moly	10/14/14 8176
Released By	Date / Time	Received By	Date / Time
m cl	10/14/16 9:45	Muandian	1/14/16 19:05
Released By	Date / Time	Received By	Date Tinte



Client		City of Lomita	S	System Number	umber		Ana	lysis	Red	Analysis Requested	ρε				
Address		24373 Walnut Avenue		101	1010073										
		Lomita, CA 91717		2	000					Me					
Phone #		(310) 325-9830		Destinatic	Destination Laboratory	ý			1	etha					
Fax#		(310) 325-3627		[X] Clinic	[X] Clinical Laboratory	Σ.			otal	ne					
Project		Standard Analysis		RWQCB	RWQCB Compliance	đ,	Iı	Man	Diss			CT/	0		
Sub Droject		CWDE 2nd Wook OCT Counting			No		ron	gane		ter olor			dor		
nosio Li dec		CWFF 2nd Week UCI Sampung		田田	ELAP#			ese							
Comments				7	000				lids	KSK.					
Sampled by		CB	Γ	-	000				-	175)	(03)				
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine				)				Commen	Comments / P.S. Codes
10/12/2016 🖉	933 Re:	10/12/2016 🔗곳의 Reservoir Influent Site #1	DW	<u>*</u>	HCL	N/A	×	<b>&gt;</b>	\ \ \	X	×	×		74 7.55	15MP 22,
10/12/2016	100 Res	10/12/2016 (	DW	1W	A/N	7.1			/	+	×	-	_	24.8.19	TEMP 73.
											+	-	$\perp$		
									$\dashv$		$\dashv$				
											+		_		
										+	++	+	$\prod$		
								+		+	-	-	-		
											-				
											+-	+	-		
Preservatives:	(1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO3 (4) NH4Cl		Matrix	c: DW-Drink	ing Water,	WW-N	Vaste	Water,	SW-S	torm	Water	, GW	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	r, A-Air
(5) H2SO4	(6) Na2SO	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:			Type- 1	1-Routine, i	2-Repe	eat, 3-,	Replan	emen	t, 4-S	oecial	1 - X	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.	
Relingui	Relinguished By (Sign)	(Sign) Print Name / Company	Å		Date / Time	ime			Zece Zece	ecojived By (Sign)	By 63	(uSi		Print Na	Print Name / Company
Carles Bobadilla	Ja Kal	City of Lomita		10/12/2016	016 / 12	9 <b>0</b> ;		$\lambda$	Z	$\mathcal{Z}$	7	$ \langle $	1	J. M.	400 161V
	No.	7.WCOPO (1.58		10.12.1	,9	4:8		()	<b>,</b>		-			)	, ( 1)
Comments:					<u>`</u>	Samples received: Tem	receiv	red:J	<b>7</b> =	で うべ	<u>چ</u> ف	() F	Intact (F)	$\int_{\mathbf{X}}$	Custody seals
Shipped Via		Fed X     Golden State	UPS	[ ] Client		Other							P	Page 1 of 1	
-															



03 November 2016 Clinical Lab No.: 16J1612

Mark Andersen Lomita, City of 24373 Walnut Avenue Lomita, CA 91717

Project Name: Standard Analysis

Sub Project: CWPF 3rd Week OCT Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 10/19/16. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:16J161224373 Walnut AvenueSub Project:CWPF 3rd Week OCT SamplingReceived:10/19/16 16:00

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 11/03/16

Reservoir Influent Site #1		16J1612-0	01 (Water)		Sample Da	<b>te:</b> 10/19/16	9:30 <b>Sa</b>	mpler: D	M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
pH (Field)	Field	7.47		N/A	pH Units	10/19/16	10/19/16	1644064	
Temperature (Field)	Field	21.5		N/A	°C	10/19/16	10/19/16	1644064	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	10/19/16	10/20/16	1643307	
E. Coli	SM 9223	A		N/A	P/A	10/19/16	10/20/16	1643307	
Plate Count	SM9215B	21	1	500	CFU/ml	10/19/16	10/21/16	1643424	
General Physical Analyses									
Apparent Color	SM 2120B	10.0	3.0	15	Color Units	10/19/16	10/19/16	1643328	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	330	6.6	N/A	mg/L	10/25/16	10/25/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	720	5.0	1000	mg/L	10/26/16	10/31/16	1644212	
Metals									
Calcium (Ca)	EPA 200.7	87	1.0	N/A	mg/L	10/25/16	10/25/16	1644008	
Iron (Fe)	EPA 200.7	310	100	300	ug/L	10/27/16	10/27/16	1644218	
Magnesium (Mg)	EPA 200.7	28	1.0	N/A	mg/L	10/25/16	10/25/16	1644008	
Manganese (Mn)	EPA 200.7	150	20	50	ug/L	10/27/16	10/27/16	1644218	
Reservoir Effluent Site #6		16J1612-0	02 (Water)		Sample Da	te: 10/19/16	5 10:00 Sa	mpler: D	M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.19		N/A	mg/L	10/19/16	10/19/16	1644064	
pH (Field)	Field	8.14		N/A	pH Units	10/19/16	10/19/16	1644064	
Temperature (Field)	Field	22.4		N/A	°C	10/19/16	10/19/16	1644064	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	240	6.6	N/A	mg/L	10/25/16	10/25/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	540	5.0	1000	mg/L	10/26/16	10/31/16	1644212	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	58	1.0	N/A	mg/L	10/25/16	10/25/16	1644008	
Magnesium (Mg)	EPA 200.7	23	1.0	N/A	mg/L	10/25/16	10/25/16	1644008	
ND Analyte NOT DETECTED at or	above the reporting limi	it							

## **EDT Transfer Confirmation 1**



Work Order: 16J1612 Report Date: 11/03/2016

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH	Syste	m: 1910073
WELL 05	Sta	ation No.: 1910073-	-003	Sampled: 161019 09:30
COLOR	Result: 10.0	Units: UNITS	Entry No.: (	00081 Analyzed: 161019
TOTAL HARDNESS (AS CACO3)	Result: 330	Units: MG/L	Entry No.:	00900 Analyzed: 161025
CALCIUM	Result: 87	Units: MG/L	Entry No.:	00916 Analyzed: 161025
MAGNESIUM	Result: 28	Units: MG/L	Entry No.:	00927 Analyzed: 161025
IRON	Result: 310	Units: UG/L	Entry No.:	01045 Analyzed: 161027
MANGANESE	Result: 150	Units: UG/L	Entry No.:	01055 Analyzed: 161027
TOTAL DISSOLVED SOLIDS	Result: 720	Units: MG/L	Entry No.:	70300 Analyzed: 161031



## Certificate of Analysis

FINAL REPORT

Work Orders: 6J21016

Report Date: 11/03/2016

**Received Date:** 10/21/2016

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

**Project:** 16J1612

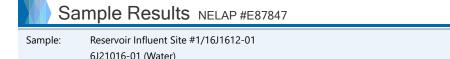
Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.

21881 Barton Road Grand Terrace, CA 92313

#### Dear John Styles,

Enclosed are the results of analyses for samples received 10/21/16 with the Chain-of-Custody document. The samples were received in good condition, at 1.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.



6J21016-01 (water)						
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Dissolved Gases in Water by RSK-175						
Method: RSK-175	Batch ID: W6K0217	Prepared: 10/31/	16 10:05			Analyst: _sub
Methane	3.8	0.0010	mg/l	1	10/31/16	S_AIR



## Certificate of Analysis

**FINAL REPORT** 



## **Notes and Definitions**

S_AIR	Analysis subcontracted to Air Technology Laboratories, Inc., NELAP Certificate # E87847
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.



## Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
RSK-175 in Water		
Methane	74-82-8	NELAP

Reviewed by:

Chris Samatmanakit For Brandon Gee Operations Manager/Senior PM

Stole

1964 South Parker Laborate 1964 South Parker Lab







Dod-Elap #L15-366 • Elap-ca #1132 • Epa-ucmr #Ca00211 • HW-doh # • ISO 17025 #L15-365 • Lacsd #10143 • Nelap-or #4047 • NJ-dep #Ca015 • NV-dep #NAC 445A

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## SUBCONTRACT ORDER

## Clinical Laboratory of San Bernardino

## 16J1612

GJZ1016

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone: (626) 336-2139 Fax: (626) 336-2634
Please email results to Project Manager: Stu Styles  [ ] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.  California EDT transfer those samples with PS co Water Trax Upload Client:  Turn Around Time [ ] 10 Days [ 5 Days [ ] Subcontract Comments:	odes provided [] Yes [] No [] Yes [] No
Analysis	Comments
Sample ID: Reservoir Influent Site #1 / 16J1612-01	Sampled: 10/19/16 09:30 PS Code: 1910073-003 Water WTX ID:
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (C) 40ml Amber	Vial (D)

Released By Date / Time Received By Date / Time Date / Time Received By Date / Time Date / Time Received By Date / Time Date / Time Received By Date / Time Date / Time Date / Time Date / Time / Date / Date / Time / Date /

1651612

Client		City of Lomita	Sy	stem N	umber		Ana	alysi	s Re	eque	stec	ı				
Address		24373 Walnut Avenue		101	0073	:										
		Lomita, CA 91717		191	0073						Z	T <sub>0</sub>				
hone #		(310) 325-9830	- 17	Destinatio	n Laborato	ory	3				핥	tal				
ax#		(310) 325-3627		[X] Clinica	i Laborato	гу			otal		ine (	Har	BA			
Project -		Standard Analysis		RWQCB (	Complianc	в		Man	Diss	C	(Wa	dne	CIV	ဝ		
Sub Proje	ct	CWPF 3rd Week OCT Sampling			No AP#		Iron	Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Total Hardness (as CaCO3)	BACT/TC/HPC	Odor		
Comments	5			4	000		1		lids		SK	[3C	Ğ			
Sampled b	эу	DM		11	880	}					175)	[3]				
Date	Time	Sample Idenitification	Matrix	Туре	Preserv	Total Chlorine									Comments / P.S. Code	es
10/19/2016	0930	Reservoir Influent Site #1	DW	1 <b>W</b>	HCL	NIA	X	X	X	X	X	X	X		TEMP 21,5 PH7.4	7
	ļ						<b>↓</b>									
10/19/2016	1800	Reservoir Influent Site #6	DW	1W	N/A	Z,19			X		<u> </u>	X	-	1	TEMP 22,4 PH 8.	14
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							<del>-  </del>		T				1	1		
Preservatives	s: (1) Na <sub>2</sub>	S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO3 (4) NH4Cl		Matrix	: DW-Drini	king Water	, ww-	Wast	e Wa	ter, S	W-Sto	orm V	Vater,	GW-	Ground Water, A-Air	
(5) H2S	504 (6) Na	a2SO3 (7) Cold (8) Other:		500 G-94 TV-97 TV-11		10000 8820	2-Rep	eat, S	3-Rep				energy sales	W-W	eli D-Dist.	
Relin	quished .	By (Sign) Print Name / Company			Date / ]				R	cely	ed B	(Się	gn)		Print Name / Compan	γ <u> </u>
Daniel Matei	K Will	City of Lomita		10/19/20	016	12:3	<u>0</u>	$\succ$	$\rightarrow$	<b>&gt;//</b> 2	<u>ソ</u>	M	<u></u>	_	JUGONO/0	<b>41</b> 19
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	C	),				Samples	recei					(>	≯In	tact	( ) Custody seals	
Commen	l <b>3</b> .				/			Te	emp_	10	9	_ (	) <b>F</b>	' ( <b>'</b>	<b>*</b> C	
Shipped Via		[ ] Fed X [ ] Golden State	[ ] UPS	[ ] Cli	ent []	Other					1			D	ge_1_of_1_	



03 November 2016 Clinical Lab No.: 16J2061

Mark Andersen Lomita, City of 24373 Walnut Avenue Lomita, CA 91717

Project Name: Standard Analysis

Sub Project: CWPF 4th Week Oct Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 10/26/16 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProject:Standard AnalysisWork Order:16J206124373 Walnut AvenueSub Project:CWPF 4th Week Oct Compliance SamplingReceived:10/26/16 15:50Lomita CA, 91717Project Manager:Mark AndersenReported:11/03/16

10/26/16 9:15 16J2061-01 (Water) **Sample Date:** DGM Reservoir Influent Site #3 Sampler: Analyte Method Result MCL Units Prepared Analyzed Batch Qualifier Rep. Limit Field Analyses Field 10/26/16 10/26/16 1644331 2.98 Cl Res Total (Field) N/A mg/LpH (Field) Field 7.64 N/A pH Units 10/26/16 10/26/16 1644331 Field 20.8 10/26/16 10/26/16 1644331 Temperature (Field)  $^{\circ}\mathrm{C}$ N/A **General Physical Analyses** SM 2120B ND 10/26/16 10/26/16 1644318 Apparent Color 3.0 15 Color Units Metals 1644417 EPA 200.7 ND 10/31/16 10/31/16 Iron (Fe) 100 300 ug/L EPA 200.7 ND 10/31/16 10/31/16 1644417 Manganese (Mn) 50 ug/L Reservoir Effluent Site #5 16J2061-02 (Water) 10/26/16 9:30 **Sample Date:** Sampler: Analyte Method Prepared Analyzed Qualifier Result Batch Rep. Limit MCL Units Field Analyses Cl Res Total (Field) Field 2.3 10/26/16 10/26/16 1644331 N/A mg/L Field 10/26/16 10/26/16 1644331 pH (Field) 8.08 pH Units N/A Field 0 10/26/16 10/26/16 1644331 Temperature (Field) N/A °C **General Physical Analyses** Apparent Color SM 2120B ND 3.0 15 Color Units 10/26/16 10/26/16 1644318 EPA 140.1M **Odor Threshold** 4 3 TON 10/26/16 10/26/16 1644318 **General Chemical Analyses** Total Filterable Residue/TDS SM 2540C 610 10/27/16 10/31/16 1644277 5.0 1000 mg/L

ND Analyte NOT DETECTED at or above the reporting limit

EPA 200.7

EPA 200.7

ND

ND

100

20

300

50

ug/L

ug/L

10/31/16

10/31/16

10/31/16

10/31/16

1644417

1644417

Metals
Iron (Fe)

Manganese (Mn)

## **EDT Transfer Confirmation 1**



Work Order: 16J2061 Report Date: 11/03/2016

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

System: 1910073 LOMITA-CITY, WATER DEPT. User ID: 4TH WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 161026 09:15 Units: UNITS Entry No.: 00081 Analyzed: 161026 Result: ND Entry No.: 01045 Analyzed: 161031 IRON Units: UG/L Result: ND MANGANESE Entry No.: 01055 Analyzed: 161031 Result: ND Units: UG/L



## Certificate of Analysis

FINAL REPORT

Work Orders: 6J28019

**Project:** 16J2061

Report Date: 11/03/2016

Received Date:

10/28/2016

**Turnaround Time:** 

5 workdays

Phones:

(909) 825-7693 (909) 825-7696

P.O. #:

Fax:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.

21881 Barton Road

Grand Terrace, CA 92313

#### Dear John Styles,

Enclosed are the results of analyses for samples received 10/28/16 with the Chain-of-Custody document. The samples were received in good condition, at 1.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.



## Sample Results NELAP #E87847

Sample:	Reservoir Effluent Site #5/16J2061-02						
	6J28019-01 (Water)						
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Dissolved Gas	ses in Water by RSK-175						
Method: RSK	-175 <b>Bat</b>	ch ID: W6K0217	Prepared: 10/31/1	6 09:52			Analyst: _sub
Methane		0.35	0.0010	mg/l	1	10/31/16	S_AIR



## Certificate of Analysis

**FINAL REPORT** 



## **Notes and Definitions**

item	Definition
S_AIR	Analysis subcontracted to Air Technology Laboratories, Inc., NELAP Certificate # E87847
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.  The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at. or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.



## Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
RSK-175 in Water		
Methane	74-82-8	NELAP

Reviewed by:

Chris Samatmanakit For Brandon Gee Operations Manager/Senior PM

1: State

1964 South Laborate L







Dod-Elap #L15-366 • Elap-ca #1132 • Epa-ucmr #Ca00211 • HW-doh # • ISO 17025 #L15-365 • Lacsd #10143 • Nelap-or #4047 • NJ-dep #Ca015 • NV-dep #NAC 445A

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

#### SUBCONTRACT ORDER

# Clinical Laboratory of San Bernardino 16J2061

6728019

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone: (626) 336-2139 Fax: (626) 336-2634
Please email results to Project Manager: Stu Styles  [ ] glaubig@clinical-lab.com [ ] ybarra@clinical-lab  California EDT transfer those samples with PS of Water Trax Upload Client:  Turn Around Time [ ] 10 Days [ v ] 5 Days [ Subcontract Comments:	,
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 16J2061-02	Sampled: 10/26/16 09:30 PS Code: Water WTX ID:
Methane RSK175	Report in mg/L

Released By Cloud

Containers Supplied: 40ml Amber Vial (B)

10/27/16 14:30 M Clan
Date / Time Received By

40ml Amber Vial (C)

Received Be

1028 16 8:30

0/28/16 1043

Date / Time

Chain of Custody

City of Lonnita						6	163 200	30				_			
Chapter   Chap	Client	City of Lomita	Syste	m Numb	er	Ā	nalys	is Re	dnes	ted			)		
CMPF 4th Week OCT Compliance   August 10	Address	24373 Walnut Avenue		040	13	-			$\vdash$	-		<u> </u>			
CAPP 411 Neek OCT Compliance   Analysis		Lomita, CA 91717		3000	2						78				
Chincial Laboratory   Chincial Laboratory	Phone #	(310) 325-9830	Dest	ination Lab	oratory										
Corporation   Standard Analysis   Standard Analysis   Standard Analysis   Standard Analysis   Standard Analysis   Standard Analysis   Standard Standard Standard   Standard	Fax#	(310) 325-3627	X	Clinical Lab	oratory			Tota							
Cut   Week OCT Compliance Sampling	Project	Standard Analysis	RW	QCB Comp	liance			l Dis							
For TC/EC/BACT see weekly Distro Coc	Sub Project	CWPF 4th Week OCT Compliance Sampling		yes ELAP	34	Iron		solved S							
Time   Sample Identification   Marrix   Type   Process   Chiefelber   Chiefelber	Comments	For TC/EC/BACT see weekly Distro CoC		000				olids							
Time   Sample Identitification   Matrix   Type   Prever   Closing   Chicken   Chicke	Sampled by	DGM		1088							000				
1   Fed X   1   Golden State   1   Gol		Sample Idenitification	ļ	-		i z			,				Comment	ts / P.S. Codes	
	10/26/2016 06515	Reservoir Influent Site #3	H			Н	╁┼		×	+	H		PH 7.64	Temp 20.8	
17.20  Reservoir Effluent Site #5   DW   1W   HCL   N   N   N   N   N   N   N   N   N	10/26/2016 AC 20	THE COLUMN TERMINATION OF THE COLUMN TERMINA	_	+	_			-	+;			;			
### 1075/20   Reservoir Effluent Site #5   DW   1W   HCL	7C1 7 0107/07/01	Reservoir Emident Site #5	$\downarrow$	+	4		$\dashv$	/	/			×	PH 8.	22.	
Sign   City of Lomita   10/26/2016   Samples received: On ice (×) Intact (+) Integral   10/26/2016   City of Logida	10/26/2016 0434	Reservoir Effluent Site #5	-		3					$\frac{x}{x}$	$\perp$	_			
Signate   Sign						-	$\perp$					_			
s.: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI  Sod (6) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI  Sod (6) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI  Aquished By (Sign)  City of Lomita  City of Lomita  City of Lomita  10/26/2016  Samples received:  Conpany  10/26/2016  Samples received:  Temp   0.5   F   X   1   Fed X   1   Golden State   1   UPS   1   Client   1   Other							$\perp$		+	+	+	$\perp \mid$			
s: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO3 (4) NH4Cl  Sod (6) Na2SO3 (7) Cold (8) Other:    Author										-	-	_			
Sign   City of Lomita   10/26/2016   City of Lomita   City of Lomita   10/26/2016   City of Lomita   City of										H	-				
Scale   Scal						-			-	-	+	_			
Type-1-Routine, 2-Replacement, 4-Special W-Well I   Type-1-Routine, 3-Replacement, 4-Special W-Well I   Type-1-Routine, 4-Replacement, 4-Repl	Preservatives: (1) Na	2S <sub>2</sub> O <sub>3</sub> (2) HCi (3) HNO3 (4) NH4Ci	2	fatrix: DW-L	Drinking Wa	ater, WM	-Waste	Wate	r, SW.	Storm	Water	, GW.	'- Ground Water,	, A-Air	
City of Lomita   10/26/2016   1:00   City of Lomita   10/26/2016   City of Lomita   City of Lomita   10/26/2016   City of Lomita   City of Lomi	(5) H2SO4 (6) N			7	rpe- 1-Routi	ine, 2-Re	peat, 3	-Repl	cemer	it, 4-S	pecial	<u>7</u> -Z	Vell D- Dist.		
City of Lomita 10/26/2016 / 1:00	Relinquished			Dat	e / Time		-	M	eived	By (S	ign)		Print Nan	me / Company	
ts:    T-Lucello   CLIS   10.26-16   3:50	Daniel Materik	City of Lomita	10/2	26/2016	11:00	_	1	Z	8	17	3		TWO	80 M Alk	
ts:    Samples received: On ice (X) Intact ( )		Jucello/ce	9	.56.16	13:50	_		1		\$			とその	25	
[   Fed X     Golden State     UPS     Client     Other   Page 1	Comments:				Samp	les rec	sived: Te	X		310	\S \rangle \r	ntact	(C)	ody seals	
	Shipped Via	[ ] Golden State		Client	Other			1				1	~		

"Your Water and Wastewater Analysis Solution"



Lomita, City ofProject:Standard AnalysisWork Order:16K033924373 Walnut AvenueSub Project:Monthly Compliance / Weekly 1st Week NovemberReceived:11/02/16 15:50Lomita CA, 91717Project Manager:Mark AndersenReported:11/09/16

Reservoir Effluen	t Site #5		16K0339-0	5 (Water)		Sample Date	e: 11/02/16	9:00 <b>Sa</b>	9:00 Sampler: DO		
Analyte		Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier	
Clinical Laborato	ry of San Bernardino										
General Chemical A	<u>Analyses</u>										
Hardness, Total (a	s CaCO3)	Calculated	310	mg/L	6.6		11/08/16	11/08/16	[CALC]		
<u>Metals</u>											
Calcium (Ca)		EPA 200.7	80	mg/L	1.0		11/08/16	11/08/16	1646053	F-06	
Magnesium (Mg)		EPA 200.7	28	mg/L	1.0		11/08/16	11/08/16	1646053	F-06	
F-06 Sample	e results non-reportable due	to metals internal sta	andard failure								
ND Analyt	e NOT DETECTED at or ab	nove the reporting li	mit								

DRAFT REPORT
DATA SUBJECT TO CHANGE

## **APPENDIX B**

METHANE MONITORING LOG



# CITY OF LOMITA PUBLIC WORKS DEPARTMENT

# CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

		OC	TOBER 2016	
DATE	DAY	METHANE	HANDHELD	COMMENTS
10/1/2016	SA			CWPF OFFLINE
10/2/2016	SU			CWPF OFFLINE
10/3/2016	М			CWPF OFFLINE
10/4/2016	Т			CWPF OFFLINE
10/5/2016	W			CWPF OFFLINE
10/6/2016	TH			CWPF OFFLINE
10/7/2016	F			CWPF OFFLINE
10/8/2016	SA			CWPF OFFLINE
10/9/2016	SU			CWPF OFFLINE
10/10/2016	М			CWPF OFFLINE
10/11/2016	Т			CWPF OFFLINE
10/12/2016	W			CWPF OFFLINE
10/13/2016	TH			CWPF OFFLINE
10/14/2016	F			CWPF OFFLINE
10/15/2016	SA			CWPF OFFLINE
10/16/2016	SU			CWPF OFFLINE
10/17/2016	М			CWPF OFFLINE
10/18/2016	Т			CWPF OFFLINE
10/19/2016	W			CWPF OFFLINE
10/20/2016	TH			CWPF OFFLINE
10/21/2016	F			CWPF OFFLINE
10/22/2016	SA			CWPF OFFLINE
10/23/2016	SU			CWPF OFFLINE
10/24/2016	М	CH4- 0%	Oxy- 20.1%	
10/25/2016	Т	CH4- 0%	Oxy- 20.9%	
10/26/2016	W	CH4- 0%	Oxy- 20.1%	
10/27/2016	TH	CH4- 0%	Oxy- 20.9%	
10/28/2016	F	CH4- 0%	Oxy- 20.3%	
10/29/2016	SA	CH4- 1%	Oxy- 19.9%	
10/30/2016	SU	CH4- 0%	Oxy- 20.1%	
10/31/2016	М	CH4- 0%	Oxy- 20.2%	

ND- Non Detect

CH4- Methane

Oxy- Oxygen

Day Off/Holiday- Red

## **APPENDIX C**

NITRIFICATION MONITORING DATA SUMMARY

# <sup>1</sup>MONTHLY NITRIFICATION MONITORING SUMMARY REPORT CITY OF LOMITA, System No. 1910073 --- Month, Year: <u>October 2016</u>

#	C 0	Sample I.D	Location	Sample Date (and Time)	Temp	рН	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite	Nitrate	Coliform <sup>2</sup>	HPC	<i>Z</i>	Comments
	d e			(und rimo)											n e	
U		Others ->		MM/DD/YYYY Xx:xx am/pm	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/mI		
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	10/5/2016	23.5	8.4	2.04	0.03	0.38	0.13	0.007	0.48	А	ND	1	MWD Only
2	D	S13-004	24632 S Moon Av	10/5/2016	23.6	8.38	1.96	0.09	0.36	0.07	0.005	0.47	А	ND	1	MWD Only
3	D	S13-008	25417 Pennsylvania Av	10/5/2016	24.1	8.41	1.22	0.53	0.31	0.14	0.006	0.62	Α	ND	1	MWD Only
4	D	Α	2052 Dawn St	10/5/2016	23.0	8.5	1.81	0.13	0.41	0.21	0.010	ND	Α	ND	1	MWD Only
5	D		Reservoir			J			WPF OFFLINE		l l				1	-
6	D	S13-001	1912 W. 259 <sup>th</sup> PI	10/5/2016	21.9	8.47	2.2	0.11	0.37	0.17	0.004	0.48	Α	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vta.	10/5/2016	21.2	8.66	2.1	0.19	0.39	0.22	0.005	0.49	Α	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/5/2016	24.5	8.42	1.84	0.11	0.34	0.11	0.009	0.61	Α	ND	2	MWD Only
				•			•									
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	10/12/2016	21.4	8.03	2.4	0.12	0.38	0.10	0.003	ND	Α	ND	1	MWD Only
2	D	S13-004	24632 S Moon Av	10/12/2016	21.9	8.11	2.06	0.07	0.38	0.14	0.005	ND	Α	ND	1	MWD Only
3	D	S13-008	25417 Pennsylvania Av	10/12/2016	22.4	8.12	1.31	0	0.31	0.15	0.006	ND	Α	ND	1	MWD Only
4	D	Α	2052 Dawn St	10/12/2016	22.5	7.29	1.90	0.17	0.38	0.19	0.006	ND	Α	2	1	MWD Only
5	D		Reservoir					C	WPF OFFLINE						1	-
6	D	S13-001	1912 W. 259 <sup>th</sup> PI	10/12/2016	23.2	8.26	2.3	0	0.39	0.18	0.004	ND	Α	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vta.	10/12/2016	23.1	8.22	2.3	0	0.37	0.16	0.004	ND	Α	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/12/2016	22.9	8.18	1.6	0.46	0.38	0.11	0.006	ND	Α	ND	2	MWD Only
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	10/19/2016	19.1	8.37	1.94	0.19	0.38	0.13	0.008	ND	Α	ND	1	MWD Only
2	D	S13-004	24632 S Moon Av	10/19/2016	19.7	8.3	1.81	0.75	0.38	0.14	0.010	ND	Α	ND	1	MWD Only
3	D	S13-008	25417 Pennsylvania Av	10/19/2016	20.5	8.26	1.22	0.13	0.29	0.19	0.019	ND	Α	ND	1	MWD Only
4	D	Α	2052 Dawn St	10/19/2016	21.8	8.42	1.82	0.35	0.38	0.16	0.019	ND	Α	10	1	MWD Only
5	D		Reservoir					C	WPF OFFLINE						1	-
6	D	S13-001	1912 W. 259 <sup>th</sup> PI	10/19/2016	21.7	8.24	1.98	0	0.41	0.17	0.011	ND	Α	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vta.	10/19/2016	21.9	8.21	1.86	0.24	0.32	0.17	0.011	ND	Α	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/19/2016	19.0	8.12	1.3	0.06	0.43	0.19	0.015	0.41	Α	ND	2	MWD Only
1	_	S13-003	1948 W. 252 <sup>nd</sup> St	10/26/2016	21.6	8.31	1.92	0.19	0.41	0.13	0.005	ND	Α	ND	1	We///MWD Blend
2	D	S13-004	24632 S Moon Av	10/26/2016	21.0	8.16	1.95	0.05	0.44	0.21	0.008	ND	Α	ND	1	We///MWD Blend
3	D	S13-008	25417 Pennsylvania Av	10/26/2016	21.7	8.12	1.1	0.38	0.37	0.17	0.011	ND	Α	ND	1	We///MWD Blend
4	D	Α	2052 Dawn St	10/26/2016	23.3	8.13	2.01	0	0.43	0.18	0.009	ND	Α	ND	1	We///MWD Blend
5	D		Reservoir	10/26/2016	21.4	8.00	2.40	0.19	0.60	0.17	-	ND	Α	ND	1	We///MWD Blend
6	D	S13-001	1912 W. 259 <sup>th</sup> PI	10/26/2016	21.8	8.23	2.00	0.10	0.38	0.15	0.010	ND	Α	1	2	MWD Only
7	D	S13-002	26314 S Monte Vta.	10/26/2016	22.3	8.24	2.17	0.26	0.34	0.15	0.012	ND	Α	1	3	MWD Only
8	D	S13-005	2500 PCH	10/26/2016	21.3	8.25	2.04	0	0.39	0.17	0.015	ND	Α	ND	2	MWD Only

<sup>1</sup>Notes: Report Due to DDW by the 10<sup>th</sup> of the following month. This Report can be used for the routine weekly monitoring (one Report per month) as well as for daily monitoring when there is actual and potential for nitrification (about four or five Reports per month, in this case).

<sup>2</sup>Coliform results are part of weekly Bacti sampling results.