CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

October 2017

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CITY COUNCIL

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



ADMINISTRATION

RYAN SMOOT
CITY MANAGER

November 13, 2017

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, 2017.</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 2017.

If you should have any questions or concerns, please contact me at 310-325-7110 Ext. 124.

Sincerely,

Mark A. McAvoy, P.E.

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 during the month of October 2017 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 491 gpm and 268 gpm from MWD. The blend ratio for month was 62% Well water and 38% MWD water. See Table 1 below for production totals for the month of October 2017.

Table 1. Monthly Production Totals.

		Production	for October 2017
Well No. 5	55.37	ac-ft	18,041,274 (gallons)
MWD	34.17	ac-ft	11,133,000 (gallons)
Combined Total	89.54	ac-ft	29,174,274 (gallons)
Daily	3.32	ac-ft/day	1,080,529 (gallons/day)

C. OPERATIONAL INTERRUPTIONS

During the month of October 2017, CWPF was placed offline for approximately four (4) days and water was supplied by the City's West Basin 8 MWD interconnection with no interruption of service to customers. Routine preventive maintenance and overall system checks were performed at this time. 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 below the MCL. Iron and Manganese in the raw water (SP1) for the month were below and above the MCL, respectively. Iron and Manganese levels before 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 655 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 760 mg/L and 310 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 280 mg/L. This hardness level is slightly higher than 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 0.45 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 2017 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 2.3 units for the month.

E4. NITRIFICATION MONITORING

Weekly nitrification sampling was performed during the month of October 2017 following the City's Nitrification Monitoring Plan. Refer to Appendix C for results. During this month, additional hydrant flushing was implemented due to elevated Nitrite reads.

F. TABLES

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

		SP1, V	Vell Raw	/ Water	Discha	arge		Pres	Comb sure F ffluen	ilter	SP3, /		nloramin reservoir		tatic mi	xer;
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
10/4/2017											ND	300	ND	50	5	15
10/11/2017	240	300	190	50	10	15	Α	Α	А	500	ND	300	ND	50	5	15
10/18/2017											ND	300	ND	50	5	15
10/25/2017											ND	300	ND	50	ND	15

Notes:

Monthly- Orange; Weekly- Yellow

A – Absent

ND - Non Detect

*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.

Date,	SP2		SP3			SP4			SP5	
week of	Free CI	Free CI	Total CI	Total NH ₃	Free CI	Total CI	Total NH ₃	Free CI	Total CI	Total NH ₃
10/4/2017	2.58	0.59	4.67	0.86	0.60	4.46	0.81	0.09	3.60	0.86
10/11/2017	4.43	0.79	5.00	0.75	0.74	4.90	0.75	0.06	3.65	0.84
10/18/2017	4.16	0.64	5.37	0.92	0.77	4.59	0.81	0.10	3.34	0.77
10/25/2017	5.56	0.70	6.90	1.06	0.77	4.35	0.86	0.15	2.77	0.62

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

		TD	S, mg/L		T.O).N.		Hardn	iess, mç	g/L	16.500A64.620.0000A62	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
10/4/2017			670	500-750	2	3						0.61
10/11/2017	760	310	640	500-750	2	3	370	120	280	180-250	2.8	0.35
10/18/2017			680	500-750	3	3						0.36
10/25/2017			630	500-750	2	3						0.48
Average			655	500-750	2.3	3						0.45

Notes:

Monthly- <u>Orange</u>; Weekly- <u>Yellow</u> 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

Monthly CWPF Monitoring Report – October 2017 Cypress Water Production Facility City of Lomita; System No. 1910073

MCL/ Sample Locations Frequency 10/4 10/11 10/18 1.0/25 Comments and Parameters Goal 2ndWk 4thWk 5thWk 1stWk 3rdWk and/or Other Info. or Mo. Result (date) SP1 --- Also called Well 5 Raw Water or Site#1. Monthly Operations Data/Information: Chlorine injected after 760 TDS, ppm SP1, before entering 10/11/17 **CWPF** operation days the greensand filter. Hardness Monthly See SP5 370 10/11/17 On Well 5: Daily average flow - 491 gpm; total prod. See SP5 CH4, ppm Monthly 2.8 10/11/17 Combined Well 5/MWD data: Average Well 5: MWD See SP3 240 Iron, ppb Monthly blend Ratio - 62% WELL: 38% MWD; total prod.-10/11/17 See SP3 Manganese, ppb Monthly 190 10/11/17 Chlorine Dosage: N/A* See SP3 Color, units Monthly 10 10/11/17 Total Coliform, P or A Monthly Α A 10/11/17 SP2 --- Also called Filter Effluent or Site#3. Total Coliform, P or A Monthly *Ammonia added after filter effluent Ammonia Dosage: N/A* Monthly 500 HPC,MPN/100 ml Continuous Average: 4.36; Range: 2.58 - 5.56 Free CI Res, ppm SP3 --- Also called the Site After Chloramination & Before MWD Blending or Site#4. ND ND Iron, ppb Weekly ND ND ND Manganese, ppb Weekly 50 ND ND ND ND Weekly 15 ND Color Free and Total CI Res, Continuous Free CI: Average: 0.68; Range: 0.59 - 0.79 Total CI: Average: 5.40; Range: 4.67 - 6.90 ppm Ammonia: Average: 0.89; Range: 0.75 - 1.06 SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection. Phosphate Dosage: 0.92 mg/L Phosphate Injection Continuous CI/NH3 Ratio: Free and Total CI Res, Free Cl: Average: 0.72; Range: 0.60 - 0.77 Total CI: Average: 4.60; Range: 4.35 - 4.90 5.66 ppm Ammonia: Average: 0.81; Range: 0.75 - 0.86 SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system. SI Goal: 500-750ppm TDS, ppm Weekly 670 640 680 630 SI Goal: Monthly Hardness 280 180-250ppm Goal: from % CH4 Removal: Weekly CH4, ppm 0.61 0.35 0.36 0.48 84% Monthly 2 2 Odor, units 1 Continuous Free Cl: Average: 0.09; Range: 0.04 - 0.15 Free and Total CI Res, CI/NH3 Ratio: Total CI: Average: 3.06; Range: 1.92 - 3.65 4.03 ppm Ammonia: Average: 0.76; Range: 0.62 - 0.86 Headspace of the Cypress Reservoir. ¹CH4 ppmv; using Daily Goal -CH4 Average: 0.38% (from log) LEL Portable Device CH4 Range: 0-3% SP 6 --- MWD Source Feeding CWPF. Also called Zone 2 of the distribution system or Site #6. TDS, ppm Monthly 310 Monthly 120 Hardness Notes: 'Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO3 Goal-180-250 ppm. ***This Report is due to DDW by the 10th of the following month.

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

APPENDIX A

LABORATORY RESULTS



19 October 2017 Clinical Lab No.: 17J0421

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

Project Name: Standard Analysis

Sub Project: CWPF 1st Week of Oct, 2017 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 10/04/17 . 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

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Lomita, City ofProjectStandard AnalysisWork Order:17J042124373 Walnut AvenueSub Project:CWPF 1st Week of Oct, 2017 Compliance SamplingReceived:10/04/17 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:10/19/17

Reservoir Influent Site #3		17J0421-0	1 (Water)		Sample Date	te: 10/04/17	8:10 S	ampler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4.35		N/A	mg/L	10/04/17	10/04/17	1740134	
pH (Field)	Field	7.37		N/A	pH Units	10/04/17	10/04/17	1740134	
Temperature (Field)	Field	22.1		N/A	°C	10/04/17	10/04/17	1740134	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	10/04/17	10/04/17	1740143	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/09/17	10/10/17	1741031	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/09/17	10/10/17	1741031	
Reservoir Effluent Site #5		17J0421-0	2 (Water)		Sample Date	te: 10/04/17	8:20 S	ampler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.06		N/A	mg/L	10/04/17	10/04/17	1740134	
pH (Field)	Field	7.68		N/A	pH Units	10/04/17	10/04/17	1740134	
Temperature (Field)	Field	21.2		N/A	°C	10/04/17	10/04/17	1740134	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/04/17	10/04/17	1740143	
Odor Threshold	EPA 140.1-M	2	1	3	TON	10/04/17	10/04/17	1740143	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	670	5.0	1000	mg/L	10/11/17	10/13/17	1741081	
ND Analyte NOT DETECTED at or a	above the reporting limit								



October 12, 2017



TX Cert T104704450-14-6 EPA Methods TO14A, TO15

UT Cert CA0133332015-3 EPA Methods TO3, TO14A, TO15, RSK-175

Clinical Laboratory of San Bernardino ATTN: Stu Styles 21881 Barton Rd. Grand Terrace, CA 92313

LABORATORY TEST RESULTS

Project Reference: 17J0421

Lab Number:

I100506-01

Enclosed are results for sample(s) received 10/05/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

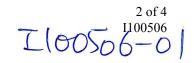
Operations Manager

MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 17J0421



SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino	Air Technology Labs
21881 Barton Road	18501 East Gale Avenue Suite 130
Grand Terrace, CA 92313	City of Industry, CA 91748
Phone: 909.825.7693	Phone :(626) 964-4032
Fax: 909.825.7696	Fax:
Project Manager: Stu Styles	
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] ybarra@clinical	al-lab.com [v] styles@clinical-lab.com [] nelson@clinical-lab.com
California EDT transfer those samples with Water Trax Upload Client:	PS codes provided [] Yes [v] No [] Yes [v] No
Turn Around Time [] 10 Days [5 Days	
Subcontract Comments:	
	. A TO CONTROL AND A STATE OF THE STATE OF T
Analysis	Comments
111111111111111111111111111111111111111	
Sample ID: Reservoir Effluent Site #5 / 17J0421-02	Sampled: 10/04/17 08:20 PS Code:
	Water WTX ID:
_0	
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) 40ml A	mber Vial (C)
•	
A 4	•
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	ranserado e baserendos estas este un abenes, qui priga.
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	e e a mare son com son se commune per e merco
Released By Date / Time	7:50 A/2 (Kasa 10/6/17 830
Released By Date / Time	Received By Date / Time
1/00 Mana inteli-	2 1032 Jant 1200 10/5/17 10:37
Released By Date / Time	Received By Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17J0421

Date Received:

10/05/17

Matrix:

Water

Reporting Units: mg/L

RSK175

I10050	6-01						
					5.		
10/4/17	8:20						
10/5/17	15:51						
1710050	GC8A2						
AS							
1.0)						
Result mg/L	RL mg/L						
0.61	0.0010						
	Reservoir Site #5/17J 10/4/17 10/5/17 171005G AS 1.0 Result mg/L	Site #5/17J0421-02 10/4/17 8:20 10/5/17 15:51 171005GC8A2 AS 1.0 Result RL mg/L RL	Reservoir Effluent Site #5/17J0421-02 10/4/17 8:20 10/5/17 15:51 171005GC8A2 AS 1.0 Result RL mg/L mg/L	I100506-01	I100506-01	Reservoir Effluent Site #5/17J0421-02 10/4/17 8:20 10/5/17 15:51 171005GC8A2 AS 1.0 Result RL mg/L mg/L	I100506-01

ND = Not Detected (below	RL)
---------------------	-------	-----

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

The cover letter is an integral part of this analytical report

Date 10-11-17

QC Batch No.:

171005GC8A2

Matrix:

Water

Units:

mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab	No.:	Metho	d Blank	I	LCS	L	CSD		
Date/Time Ar	alyzed:	10/5/1	7 14:31	10/5/	17 13:43	10/5/	17 13:56		
Analyst Ini	tials:	I	AS		AS	8	AS		
Data	Datafile:		ct024	05	oct022	05	oct023		
Dilution Fa	ctor:	1	1.0		1.0		1.0		
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	97	70-130%	98	70-130%	1.5	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:

Operations Manager

Date: 10-11-17

The cover letter is an integral part of this analytical report.

		7 20 00	-	1+1	D	る				-			-			
Client		City of Lomita		System		Number				Analysis	SIS	Keduested	8	-		
Address		24373 Walnut Avenue				1916	1910073									
		Lomita, CA 91717											То			**************************************
Phone #		(310) 325-9830			De	stination	Destination Laboratory	'n			т					
Fax#		(310) 325-3627			×] Clinical	[X] Clinical Laboratory	Z.			otal					
Project		Standard Analysis			R	WQCB C	RWQCB Compliance	6						O		
Sub Project	_	CWPF 1ST week of October, 2017				X	yes			langa	olor olved	ter)	TC/l	dor		
	,	Compliance Sampling				EL	ELAP#				Sol					
Comments		For TC/EC/BACT see weekly Distro CoC				7	4000				lids					
Sampled by		Patrick McCue				2	00						(03)			
Date	Time	Sample Idenitification	M	Matrix	Type	Preserv	Hd	Temp.	Total Chlorine						Comments / P.S. Codes	. Codes
10/4/2017 C	0380	OB C Reservoir Influent Site #3	D	DW	1W	N/A	7.37	22,10	4,35	X	X					
10/4/2017	<u>052c</u>	OSZO Reservoir Effluent Site #5	1	DW	1W	N/A	7.68	21.2	3.06		XX			X		
10/4/2017	75.20	ලරි 20 Reservoir Effluent Site #5	1	DW	WI	2						×				
													-			
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														<u> </u>		
Preservatives	(1) Na.	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix: L	W-Drink	ing Wate	r, WW-Wa	iste Water	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Poport 2 Bodissmont A Special M.WAII D. Diet	m Wate	r, GW-	Sround	Water,	A-Air		l ype- 1-Routine, 2-
(5) H2SO	74 (6) N.	Cold (8) Other:	_	-					pear, 3-re	biaceii	GIIL, 4	pecial	244	5		
Reling	uished	Relinquished By (Sign) Print Name / Company	pany			ĵ	Date / T	Time			9				Print Name / C	Company
Patrick McCue	 e	City of Lomita	я	10	10/4/2017		1:00		<u>ح</u>	7	B	7	7	\	1 WW-00/C	16
Petro	Ral	MAGINE TANCOPOLL	957	3	104.0	//	3:20		4		A	*	X	7	SOFI	
Comment	ズ))			Sam	Samples received:	eived: 🖔	⊘ On ice) <u>.</u>	Intact () —	Cus	tody se	Custody seals Temp /D./	JF &C
Ching		1 Fed X Golden State	Sd/1 1 of		Client	1 1 Other	ther	7			7	Page	Page 1 of	1		
Suppea via		ŀ	1													



26 October 2017 Clinical Lab No.: 17J1023

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

Project Name: Standard Analysis

Sub Project: CWPF Monthly Compliance / 2nd Week of Oct, 2017

Enclosed are the results of the analyses for samples received at the laboratory on 10/11/17. 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:17J102324373 Walnut AvenueSub Project:CWPF Monthly Compliance / 2nd Week of Oct, 2017 Received:10/11/17 15:00

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 10/26/17

Raw Water Site #1		17J1023-0	1 (Water)		Sample Da	te: 10/11/17	8:25 Sa	ampler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0		N/A	mg/L	10/11/17	10/11/17	1741110	
pH (Field)	Field	7.65		N/A	pH Units	10/11/17	10/11/17	1741110	
Temperature (Field)	Field	21.3		N/A	°C	10/11/17	10/11/17	1741110	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	10/11/17	10/12/17	1741126	
E. Coli	SM 9223	A		N/A	P/A	10/11/17	10/12/17	1741126	
Plate Count	SM9215B	61	1	500	CFU/ml	10/11/17	10/13/17	1741168	
General Physical Analyses									
Apparent Color	SM 2120BM	10.0	3.0	15	Color Units	10/11/17	10/11/17	1741128	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	370	6.6	N/A	mg/L	10/24/17	10/24/17	[CALC]	
Total Filterable Residue/TDS	SM 2540C	760	5.0	1000	mg/L	10/18/17	10/20/17	1742104	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	98	1.0	N/A	mg/L	10/24/17	10/24/17	1743044	
Iron (Fe)	EPA 200.7	240	100	300	ug/L	10/24/17	10/24/17	1743035	
Magnesium (Mg)	EPA 200.7	31	1.0	N/A	mg/L	10/24/17	10/24/17	1743044	
Manganese (Mn)	EPA 200.7	190	20	50	ug/L	10/24/17	10/24/17	1743035	
Filter Effluent (Free Chlorine) Site #2		17J1023-0	2 (Water)		Sample Da	te: 10/11/17	8:15 Sa	ampler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	6.1		N/A	mg/L	10/11/17	10/11/17	1741110	
pH (Field)	Field	7.48		N/A	pH Units	10/11/17	10/11/17	1741110	
Temperature (Field)	Field	21.7		N/A	°C	10/11/17	10/11/17	1741110	
Aicrobiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	10/11/17	10/12/17	1741126	
E. Coli	SM 9223	A		N/A	P/A	10/11/17	10/12/17	1741126	
Plate Count	SM9215B	ND	1	500	CFU/ml	10/11/17	10/13/17	1741168	



Lomita, City ofProject:Standard AnalysisWork Order:17J102324373 Walnut AvenueSub Project:CWPF Monthly Compliance / 2nd Week of Oct, 2017 Received:10/11/17 15:00

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 10/26/17

Filter Effluent (Total Chlorine) Site #3		17J1023-0	3 (Water)		Sample Date: 10/11/17 8:17 Sampler: DGM				GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4.9		N/A	mg/L	10/11/17	10/11/17	1741110	
pH (Field)	Field	7.8		N/A	pH Units	10/11/17	10/11/17	1741110	
Temperature (Field)	Field	21.7		N/A	°C	10/11/17	10/11/17	1741110	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	10/11/17	10/11/17	1741128	
<u>letals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/24/17	10/24/17	1743035	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/24/17	10/24/17	1743035	
Zone #2 Site #6		17J1023-0	4 (Water)		Sample Da	te: 10/11/17	7 8:12 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
<u>'ield Analyses</u>									
Cl Res Total (Field)	Field	2.17		N/A	mg/L	10/11/17	10/11/17	1741110	
pH (Field)	Field	8.55		N/A	pH Units	10/11/17	10/11/17	1741110	
Temperature (Field)	Field	18.5		N/A	°C	10/11/17	10/11/17	1741110	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	120	6.6	N/A	mg/L	10/24/17	10/24/17	[CALC]	
Total Filterable Residue/TDS	SM 2540C	310	5.0	1000	mg/L	10/18/17	10/20/17	1742104	
<u>1etals</u>									
Calcium (Ca)	EPA 200.7	28	1.0	N/A	mg/L	10/24/17	10/24/17	1743044	
Magnesium (Mg)	EPA 200.7	13	1.0	N/A	mg/L	10/24/17	10/24/17	1743044	



Lomita, City ofProject:Standard AnalysisWork Order:17J102324373 Walnut AvenueSub Project:CWPF Monthly Compliance / 2nd Week of Oct, 2017 Received:10/11/17 15:00

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 10/26/17

Reservoir Effluent Site #5		17J1023-05 (Water)			Sample Date: 10/11/17 8:07 Sampler: DGM				GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.486		N/A	mg/L	10/11/17	10/11/17	1741110	
pH (Field)	Field	7.85		N/A	pH Units	10/11/17	10/11/17	1741110	
Temperature (Field)	Field	20.8		N/A	°C	10/11/17	10/11/17	1741110	
General Physical Analyses									
Odor Threshold	EPA 140.1-M	2	1	3	TON	10/11/17	10/11/17	1741128	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	280	6.6	N/A	mg/L	10/24/17	10/24/17	[CALC]	
Total Filterable Residue/TDS	SM 2540C	640	5.0	1000	mg/L	10/18/17	10/20/17	1742104	
Metals									
Calcium (Ca) EPA		72	1.0	N/A	mg/L	10/24/17	10/24/17	1743044	
Magnesium (Mg)	EPA 200.7	25	1.0	N/A	mg/L	10/24/17	10/24/17	1743044	
ND Analyte NOT DETECTED at or	above the reporting limit								



October 19, 2017

EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

Clinical Laboratory of San Bernardino ATTN: Stu Styles 21881 Barton Rd. Grand Terrace, CA 92313

TX Cert T104704450-14-6 EPA Methods TO14A, TO15 UT Cert CA0133332015-3 EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17J1023

Lab Number:

I101201-01/02

Enclosed are results for sample(s) received 10/12/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 17J1023

	2 01 4
	I101201
TIOI	201-01/02

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	Air Technology Labs 18501 East Gale Avenue Suite 130 City of Industry, CA 91748 Phone :(626) 964-4032 Fax:
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [] California EDT transfer those samples with PS codes prov Water Trax Upload Client: [[] 10 Days [] 5 Days [] Other	[]Yes [v]No
Analysis	Comments
Sample ID: Raw Water Site #1 / 17J1023-01 Samp Water	oled: 10/11/17 08:25 PS Code: WTX ID:
Methane RSK175 ontainers Supplied: Oml Amber Vial (B) 40ml Amber Vial (C)	Report in mg/L
Sample ID: Reservoir Effluent Site #5 / 17J1023-05 Sample ID: Reservoir Effluent Site #5 / 17J1023-05 Water	oled: 10/11/17 08:07 PS Code: WTX ID:
Methane RSK175 ontainers Supplied: Oml Amber Vial (B) 40ml Amber Vial (C)	Report in mg/L
20 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	

Received By | Date / Time | 10 | 12 | 17 | 1029

Released By

10/12/17 07'so

Date / Time

10/12/17

Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17J1023

Date Received:

10/12/17

Matrix:

Water

Reporting Units: mg/L

RSK175

Lab No.:	Raw Water Site #11		I10120	1-02								
Client Sample I.D.:			Reservoir Site #5 / 1 05	7J1023-								
Date/Time Sampled:	10/11/1′	7 8:25	10/11/1	7 8:07								
Date/Time Analyzed:	10/18/1	7 9:54	10/18/17	10:07								
QC Batch No.:	1710180	GC8A1	171018GC8A1									
Analyst Initials:	AS	AS		AS		AS		AS		3		
Dilution Factor:	1.0)	1.0)								
ANALYTE	Result mg/L	RL mg/L	Result mg/L	RL mg/L								
Methane 2.8 0.0010		0.35	0.0010									

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved	By:	W
Reviewed/Approved	By:	VVV

Mark Johnson

Operations Manager

Date _____ 13/19/17

The cover letter is an integral part of this analytical report

QC Batch No.:

171018GC8A1

Matrix:

Water

Units: mg/L

QC for Dissolved	Gases by	EPA	Procedure	RSKSOP-175
------------------	----------	------------	-----------	------------

Lab	Lab No.:			I	LCS	LCSD			
Date/Time Ar	alyzed:	10/18/	10/18/17 9:26		10/18/17 9:00		/17 9:13		
Analyst Ini	tials:	I	AS		AS		AS		
Data	file:	180	ct004	18	oct002	18	oct003		
Dilution Fa	ctor:	1	0.0		1.0		1.0		
ANALYTE	ANALYTE PQL		Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	0.0010 ND		126 70-130%		120 70-130%		<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:	MARCH	A	Date:	10/19/17
	Mark J. Johnson	Y		
	Operations Manager			

The cover letter is an integral part of this analytical report.

City of Lomita System Number Analysis		X X X X X X X X X X X X X X X X X X X	Water,
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# (310) 325-9830 Lomita, CA 91717 # (310) 325-9830 Lomita, CA 91717 CWPF Monthly Color, 2017 CWPF Monthly Color Samples; CWPF Monthly Color Samples CWPF Monthly Color CWPF CWP	## (310) 325-9830 Lomitar Avenue 1910073 Lomitar Avenue 1910073	4-Air	Water.
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# (310) 235-9830 Lomita, CA 91717 # (310) 235-9830 X X X X X X	191073 1	A-Air D- Dist.	Water, W-Well
# (310) 235-9830 Destination Laboratory t	# (310) 325-9830 Lomits CA 9177 Lom	A-Air	Water,
Time Sample Destination Laboratory Laboratory	# (310) 325-9830 Lomitar CA 91717 Lomitar CA 9	A-Air	Water, ,
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# (310) 235-983	## (310) 325-9830 ## (310) 325	A-Air	Water
Time Sample Identification Ident	## (310) 325-9830 ## (310) 325	4-Air	Wafer
Time Sample Identification Ident	## (310) 325-9830 ## (310) 325	4-Air	Wafer
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Time Sample Identification Marix CR22 Filter Effluent (Free Chlorine) Site#3 Dw 10 NA Reservoir Effluent Site#3 Dw 10 NA Reservoir Effluent Site#3 Dw 10 NA CR22 C	## (310) 325-983	4-Air	Water
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Chief Effluent (Free Chlorine) Site#	# (310) 225-9830 Pestination Laboratory Lomita, CA 91717 Pestination Laboratory Filter Effluent (Free Chlorine) Site#3 Dw 1D N/A CA CA CA CA CA CA CA		
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1910073 Lomita, CA 91717 L	City of Lomita System Number Analysis Requested	TER) (RSK175)	
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1910073 Lomita, CA 91717 Lomita (310) 325-9830 Lou	City of Lomita System Number Analysis Requested	ATER) (RSK175)	20101
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1910073 Walnut Avenue	City of Lomita System Number Analysis Requested	ATER) (RSK175)	Color
1910073 Lomita, CA 91717 Lomita, CA 91717 Destination Laboratory Lomita (310) 325-9830 Lomita (310) 325-3627 Expression Laboratory Exp	City of Lomita System Number Analysis Requested	VATER) (RSK175)	Color
1910073 Lomita, CA 91717 Lomita, CA 91717 Destination Laboratory Laborato	City of Lomita System Number Analysis Requested	WATER) (RSK175)	Color
1910073 Lomita, CA 91717 L	City of Lomita System Number Analysis Requested	(WATER) (RSK175)	Color
1910073 Lomita, CA 91717 Destination Laboratory H	City of Lomita System Number Analysis Requested	e (WATER) (RSK175)	Color
SS 24373 Walnut Avenue 1910073 Lomita, CA 91717 # (310) 325-9830 Destination Laboratory	City of Lomita System Number Analysis Requested	ne (WATER) (RSK175)	Color
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24373 Walnut Avenue 1910073	ss 24373 Walnut Avenue Lomita, CA 91717 Analysis Requested	ane (WATER) (RSK175)	Color
ss 24373 Walnut Avenue 1910073	City of Lomita System Number Analysis Requested ss 24373 Walnut Avenue 1910073 Lomita, CA 91717 Lomita, CA 91717	hane (WATER) (RSK175)	Color
ss 24373 Walnut Avenue 1910073	System Number Analysis Requested System System Number Analysis Requested Statem 1910073 Lomita, CA 91717	thane (WATER) (RSK175)	Color
ss 24373 Walnut Avenue 1910073	System Number Analysis Requested System System Number Analysis Requested 1910073	ethane (WATER) (RSK175)	Color
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24272 W. L. L. A. L.	City of Lomita System Number Analysis	Methane (WATER) (RSK175)	Color
	City of Lomita System Number Analysis	Methane (WATER) (RSK175)	Color
	Analysis	Methane (WATER) (RSK175)	Color



02 November 2017 Clinical Lab No.: 17J1619

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

Project Name: Standard Analysis

Sub Project: CWPF 3rd Week of Oct, 2017 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 10/18/17 . 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:17J161924373 Walnut AvenueSub Project:CWPF 3rd Week of Oct, 2017 Compliance SamplingReceived:10/18/17 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:11/02/17

Reservoir Influent Site #3		17J1619-0	1 (Water)		Sample Date: 10/18/17 8:08 Sampler:			mpler: Pa	Patrick McCue	
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier	
Field Analyses										
Cl Res Total (Field)	Field	4.625		N/A	mg/L	10/18/17	10/18/17	1742159		
pH (Field)	Field	7.6		N/A	pH Units	10/18/17	10/18/17	1742159		
Temperature (Field)	Field	22.5		N/A	°C	10/18/17	10/18/17	1742159		
General Physical Analyses										
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	10/18/17	10/18/17	1742144		
Metals										
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/26/17	10/27/17	1743144		
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/26/17	10/27/17	1743144		
Reservoir Effluent Site #5		17J1619-0	2 (Water)		Sample Da	te: 10/18/17	7 8:12 Sa	mpler: Pa	atrick McCue	
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier	
Field Analyses										
Cl Res Total (Field)	Field	3.341		N/A	mg/L	10/18/17	10/18/17	1742159		
pH (Field)	Field	7.79		N/A	pH Units	10/18/17	10/18/17	1742159		
Temperature (Field)	Field	21.7		N/A	°C	10/18/17	10/18/17	1742159		
General Physical Analyses										
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/18/17	10/18/17	1742144		
Odor Threshold	EPA 140.1-M	3	1	3	TON	10/18/17	10/18/17	1742144		
General Chemical Analyses										
Total Filterable Residue/TDS	SM 2540C	680	5.0	1000	mg/L	10/25/17	10/27/17	1743089		



October 26, 2017



Clinical Laboratory of San Bernardino ATTN: Stu Styles 21881 Barton Rd. Grand Terrace, CA 92313

TX Cert T104704450-14-6 EPA Methods TO14A, TO15 UT Cert CA0133332015-3 EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17J1619 Lab Number:

I101902-01

Enclosed are results for sample(s) received 10/19/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 17J1619

I/61962-81

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino	Air Technology Labs
21881 Barton Road	18501 East Gale Avenue Suite 130
Grand Terrace, CA 92313	City of Industry, CA 91748
Phone: 909.825.7693	Phone :(626) 964-4032
Fax: 909.825.7696	Fax:
Project Manager: Stu Styles	
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] ybarra@clinical- California EDT transfer those samples with Programme Water Trax Upload Client:	lab.com [/] styles@clinical-lab.com [] nelson@clinical-lab.com S codes provided [] Yes [/]/No [] Yes [/] No
	[] Other Days
	arrane menter arrangan peru ang Pandilanan derenarah bir ancas
	on i Ladas tricajo sa isla m salvados libet
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 17J1619-02	Sampled: 10/18/17 08:12 PS Code: Water WTX ID:
	ar in employ and
Methane RSK175	Report in mg/L
Containers Supplied:	
0ml Amber Vial (B) 40ml Am	ber Vial (C)
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and the second s	
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131 ely 10/19/1707:	ss # 2 poliality 900
Released By Date / Time	Received By Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17J1619

Date Received:

10/19/17

Matrix:

Water

Reporting Units: mg/L

		RS	K175			
Lab No.:	I10190	2-01			I	
Client Sample I.D.:	Reservoir Site #5/17.		e u			
Date/Time Sampled:	10/18/1	7 8:12				
Date/Time Analyzed:	10/25/17	12:33				
QC Batch No.:	1710250	GC8A1				
Analyst Initials:	AS	8				
Dilution Factor:	1.0)				
ANALYTE	Result mg/L	RL mg/L				
Methane	0.36	0.0010				

ND = Not Detecte	d (below RL)
------------------	--------------

RL = Reporting Limit

Reviewed/Approved By:	will-1	
	Mark Johnson	

Operations Manager

The cover letter is an integral part of this analytical report

Date:

QC Batch No.:

171025GC8A1

Matrix:

Water

Units:

mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab	No.:	Metho	d Blank	I	LCS	L	CSD		
Date/Time An	alyzed:	10/25/	17 12:20	10/25/	17 13:18	10/25/	17 13:37		
Analyst Init	ials:	I	AS		AS		AS		
Data	file:	240	ct081	24	oct083	240	oct084		
Dilution Fac	ctor:	1	0.1		1.0	9	1.0		
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	107	70-130%	108	70-130%	0.7	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:

Mark J. Johnson

Operations Manager

The cover letter is an integral part of this analytical report.

17-11419

Client		City of Lomita	S	System No	umber				Significan	g dia	Postocillo			
Address		24373 Walnut Avenue			1					-				
		Lomita, CA 91717	_		191	1910073								
Phone #		(310) 325-9830			estinatio	Destination Laboratory	Vo'v					 Fota		
Fax#		(310) 325-3627			XI Clinic	[X1 Clinical Laboratory	20			Tot				
Project		Standard Analysis			RWOCB	RWOCB Compliance	9							
Sub Project	CWPF 3rd	CWPF 3rd week of October, 2017 Compliance				yes	3		Man	Colo	Vate	T/T(Odo	
•		Sampling			<u> </u>	ELAP#								
Comments	For TC/EC/E	For TC/EC/BACT see weekly Distro CoC								Solid				
Sampled by		Patrick McCue			Ē	1088				<u> </u>		CO:		
Date Time		Sample Idenitification	Matrix	Type	Preserv	를	Temp.	Total				3)		
10/18/2017 C&C	SCO Reservoir Influent Site #3	fluent Site #3	DW	1W	A/N	7.60	77 6	4.67 C	! ×	1/2				Comments / P.S. Codes
						,				+	†	+	1	
10/18/2017 10/18/2013	8 Reservoir Effluent Site #5	fluent Site #5	DW	1W	ΑX	7.79	3170	1255	<u> </u>	/×	1	+	1>	
10/18/2017 OS12 Reservoir Effluent Site #5	2 Reservoir Eft	fluent Site #5	DW	M	2			2.2	1	+	L	+	1	
									$\frac{1}{1}$	+	1	+	1	
									1	+	\downarrow	+	1	
			\dagger							+	\perp	+	1	
									$\frac{1}{2}$	+		+	1	
									+	\downarrow	\perp	+	1	
										+	1	4		
									$\frac{1}{2}$	+	1	+		
			<u> </u>						$\frac{1}{2}$	\perp	1	+		
										+		_	#	
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI	1a2S2O3 (2) HCI (3)) HNO3 (4) NH4CI	Matrix:	Matrix: DW-Drin	cing Wate	r. WW-Wa	ste Water	king Water, WW-Waste Water, SW-Storm Water GW, Ground Water, A Air	n Water	- P	Louing	Wafer .		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
(5) H2SO4 (6) P	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	(8) Other:)		æ	Repeat, 3-Replacement, 4-Special W-Well D- Dist	olaceme	int. 4-S	pecial	W-Well	7-7-10 D- Dis	lype- 1-Routine, 2-
Relinquished By (Sign)	d By (Sign)	Print Name / Company			-	Date / Time					_			Print Name / Journaum
Patrick McCue		City of Lqmita		10/18/20]	1 / 1	511.2			+			15		11000 M
Carrie	The state of the s	1 WKO 10 / CLIB		10-18-1	2//3	्३०			*	No.		1	1	
Commens	74				/ Sam	Samples received	eived x		\(\frac{1}{2}\)	1) Albace	$\overline{}$	Cust	ody se	Custody seals Temp 10.0 () F
Shipped Via		Fed X Golden State	I I UPS	Client	t Other	ther					Page_I_	1_ of_1		



08 November 2017 Clinical Lab No.: 17J2119

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

Project Name: Standard Analysis

Sub Project: CWPF 4th Week of Oct, 2017 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 10/25/17 . 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:17J211924373 Walnut AvenueSub Project:CWPF 4th Week of Oct, 2017 Compliance SamplingReceived:10/25/17 15:15Lomita CA, 91717Project Manager:Mark AndersenReported:11/08/17

Reservoir Influent Site #3		17J2119-0	1 (Water)		Sample Da	te: 10/25/17	8:05 S a	ampler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4.18		N/A	mg/L	10/25/17	10/25/17	1743107	
pH (Field)	Field	7.63		N/A	pH Units	10/25/17	10/25/17	1743107	
Temperature (Field)	Field	22.4		N/A	°C	10/25/17	10/25/17	1743107	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/25/17	10/25/17	1743137	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/30/17	10/31/17	1744033	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/30/17	10/31/17	1744033	
Reservoir Effluent Site #5		17J2119-0	2 (Water)		Sample Da	te: 10/25/17	8:10 S a	impler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.02		N/A	mg/L	10/25/17	10/25/17	1743107	
pH (Field)	Field	7.94		N/A	pH Units	10/25/17	10/25/17	1743107	
Temperature (Field)	Field	22		N/A	°C	10/25/17	10/25/17	1743107	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/25/17	10/25/17	1743137	
Odor Threshold	EPA 140.1-M	2	1	3	TON	10/25/17	10/25/17	1743137	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	630	5.0	1000	mg/L	10/27/17	10/30/17	1743177	
ND Analyte NOT DETECTED at or	above the reporting limit								



November 2, 2017



TX Cert T104704450-14-6 EPA Methods TO14A, TO15

UT Cert CA0133332015-3 EPA Methods TO3, TO14A, TO15, RSK-175

Clinical Laboratory of San Bernardino ATTN: Stu Styles 21881 Barton Rd. Grand Terrace, CA 92313

LABORATORY TEST RESULTS

Project Reference: 17J2119

Lab Number:

I102603-01

Enclosed are results for sample(s) received 10/26/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 17J2119

II 02603-81

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	Air Technology Labs 18501 East Gale Avenue Suite 130 City of Industry, CA 91748 Phone:(626) 964-4032 Fax:
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] ybarra@clinical-lab.com	[v] styles@clinical-lab.com [] nelson@clinical-lab.com
California EDT transfer those samples with PS codes pro Water Trax Upload Client:	vided []Yes [v]No []Yes [v]No
Furn Around Time [] 10 Days 5 Days [] Other Subcontract Comments:	
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 17J2119-02 Sam Wa	npled: 10/25/17 08:10 PS Code: ter WTX ID:
Methane RSK175 ontainers Supplied: Oml Amber Vial (B) 40ml Amber Vial (C	Report in mg/L
Réleased By Date / Time	Received By Date / Time Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17J2119

Date Received:

10/26/17

Matrix:

Water

Reporting Units: mg/L

RSK175

Lab No.:	I10260	3-01			
Client Sample I.D.:	Reservoir Site #5/17J				
Date/Time Sampled:	10/25/1	7 8:10			
Date/Time Analyzed:	10/31/1	7 9:58			
QC Batch No.:	1710310	C8A1			
Analyst Initials:	AS	8			
Dilution Factor:	1.0)			
ANALYTE	Result mg/L	RL mg/L			
Methane	0.48	0.0010			

ND =	= Not	Detected	(below RL)	
יעוו	- 1101	Dettettu	(DCIOW IXL)	

RL = Reporting Limit

P	eviewe	d/A	nnı	roved	Rv.	
1/	CVICWE	u/r	וטט	UVCU	DY.	

Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.:

171031GC8A1

Matrix:

Water

Units:

mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab	No.:	Metho	d Blank	I	LCS ·	L	CSD		
Date/Time An	alyzed:	10/31/	17 9:43	10/31	/17 9:15	10/31	/17 9:28		
Analyst Ini	tials:	A	AS		AS		AS		
Data	file:	310	ct003	31	oct001	310	oct002		
Dilution Fa	ctor:	1	1.0		1.0		1.0		
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	106	70-130%	107	70-130%	0.8	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: ___

Mark J. Johnson

Operations Manager

Date: 11/2/1

The cover letter is an integral part of this analytical report.

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MESTI

Address	Address	Odoc Bactizion Laboratory IXI Clinical Laboratory IXI Clinical Laboratory IXI Clinical Laboratory RWQCB Compilance Preserv IW NIA 7.44 22.8 2.82 2.82 8 BW NW 7.65 2.84 4.18 NA A 24 4 22.8 8.85 comm Water, GW. Ground Water, A-Air Repeat, 3-Replacement, 4-Special W.Well D. Date / Time	191 191	Uumber 1910073 1910073 Destination Laboratory IXI Clinical Laboratory RWQCB Compliance yes ELAP # 1088 NIA 7.91/22 2 2 2 2 2 Aut. WW-Waste	Ory Temp. 7.2.4 2.2.4 aste Water Re	Analysis Requested Analysis Requested Defining Total Hardness (as CaCO3) Methane (Water) (RSK175) Color X Color X Color X Color X Color Analysis Request 3-Replacement, 4-Special W-Well D-Dist.	Total Dissolved Solids Iron / Manganese X	Color × × ×	Total Hardness (as CaCO3)	BACT/TC/HPC BACT/TC/HPC	Odor × Odor	Comments / P.S. Codes	J.S. Codes Type- 1-Routine, 2-
Patrick McCue	1	10/25/	2017	20.21		4	X	1	3	TR	17	5. Luceall	G 56
Comments:	MW 1 Fed X 1 Golden State	10PS 11C	+	Samples received:	ceived:	On ice		mtact (C	() Cust	Cust	ody sea	Custody seals Temp 49	() F & C

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

OCTOBER 2017										
DATE	DAY	METHAN	COMMENTS							
10/1/2017	Sun	CH4- 1%	Oxy- 19.3%							
10/2/2017	Mon	CH4- 0%	Oxy- 19.3%							
10/3/2017	Tue	CH4- 0%	Oxy- 19.3%							
10/4/2017	Wed	CH4- 1%	Oxy- 19.2%							
10/5/2017	Thu			OFFLINE						
10/6/2017	Fri			OFFLINE						
10/7/2017	Sat			OFFLINE						
10/8/2017	Sun			OFFLINE						
10/9/2017	Mon	CH4- 0%	Oxy- 19.3%							
10/10/2017	Tue	CH4- 0%	Oxy- 19.5%							
10/11/2017	Wed	CH4- 3%	Oxy- 19.3%							
10/12/2017	Thu	CH4- 0%	Oxy- 20.0%							
10/13/2017	Fri	CH4- 0%	Oxy- 19.8%							
10/14/2017	Sat	CH4- 0%	Oxy- 19.9%							
10/15/2017	Sun	CH4- 1%	Oxy- 19.6%							
10/16/2017	Mon	CH4- 1%	Oxy- 19.3%							
10/17/2017	Tue	CH4- 0%	Oxy- 19.9%							
10/18/2017	Wed	CH4- 0%	Oxy- 19.3%							
10/19/2017	Thu	CH4- 0%	Oxy- 19.0%							
10/20/2017	Fri	CH4- 0%	Oxy- 19.9%							
10/21/2017	Sat	CH4- 0%	Oxy- 19.9%							
10/22/2017	Sun	CH4- 1%	Oxy- 19.3%							
10/23/2017	Mon	CH4- 2%	Oxy- 19.3%							
10/24/2017	Tue	CH4- 0%	Oxy- 23.3%							
10/25/2017	Wed	CH4- 0%	Oxy- 19.9%							
10/26/2017	Thu	CH4- 0%	Oxy- 19.8%							
10/27/2017	Fri	CH4- 0%	Oxy- 19.9%							
10/28/2017	Sat	CH4- 0%	Oxy- 19.8%							
10/29/2017	Sun	CH4- 0%	Oxy- 19.7%							
10/30/2017	Mon	CH4- 0%	Oxy- 19.7%							
10/31/2017	Tue	CH4- 0%	Oxy- 19.7%							

ND- Non Detect

CH4- Methane

Oxy- Oxygen

Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

MONTHLY NITRIFICATION MONITORING SUMMARY REPORT CITY OF LOMITA, System No. 1910073 --- Month, Year: October 2017

# Code	Sample ID	Location	Sample Date	Temp	рН	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite ³	Nitrate	Coliform ²	НРС	Zone	Comments
Units/O	thers $ ightarrow$		MM/DD/YYYY	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/ml	<u> </u>	
1 D	S13-003	1948 W 252nd St	10/4/2017	20.6	8.04	1.27	0.09	0.28	0.17	0.136	ND	Α	5	_	Well/MWD Blend
2 D	S13-004	24632 S Moon Ave	10/4/2017	20.6	8.08	0.84	0.18	0.19	0.09	0.249	ND	Α	ND	1	Well/MWD Blend
3 D	S13-008	25417 Pennsylvania Ave	10/4/2017	21.6	7.70	1.65	0.16	0.32	0.11	0.090	ND	Α	ND	1	Well/MWD Blend
4 D	Α	2052 Dawn St	10/4/2017	18.3	8.99	2.40	0.07	0.46	0.19	0.017	0.57	A	ND	1	Well/MWD Blend
5 D		Reservoir SP5	10/4/2017	21.2	7.68	3.06	0.05	0.55	0.00	0.004	ND	A	ND	1	Well/MWD Blend
6 D	S13-001	1912 W 259th St	10/4/2017	20.9	. 8.94	2.40	0.12	0.46	0.00	0.008	0.60	A	ND	2	MWD Only
7 D	513-002	26314 S Monte Vista Ave	10/4/2017	20.9	8.90	2.50	0.07	0.47	0.00	0.008	0.64	Α	ND	3	MWD Only
8 D	S13-005	2500 PCH	10/4/2017	20.7	8.54	2.50	0.07	0.46	0.00	0.008	0.56	A	ND	2	MWD Only
		-	 			, ···			Li was town 100 a	Barrier (1988) Market and the L					
1 D		1948 W 252nd St	10/11/2017	20.1	8.19	2.60	0.18	0.47	0.04	0.007	ND	Α	ND	1	Well/MWD Blend
2 D	S13-004	24632 S Moon Ave	10/11/2017	21.9	8.21	1.50	0.18	0.27	0.10	0.181	0.46	Α	ND	1	Well/MWD Blend
3 D	\$13-008	25417 Pennsylvania Ave	10/11/2017	22.4	8.81	2.30	0.14	0.51	0.10	0.021	0.66	A	ND	1	Well/MWD Blend
4 D		2052 Dawn St	10/11/2017	18.7	8.62	1.80	0.12	0.42	0.06	0.022	0.42	Α	ND	1	Well/MWD Blend
5 D		Reservoir SP5	10/11/2017	20.8	7.85	3.48	0.10	0.76	0.00	0.007	ND	Α	ND	1	Well/MWD Blend
6 D		1912 W 259th St	10/11/2017	19.3	9.12	. 2.20	0.10	0.48	0.00	0.006	0.71	A	ND	2	MWD Only
7 D		26314 S Monte Vista Ave	10/11/2017	18.3	9.04	2.50	0.06	0.50	0.00	0.006	0.66	A	ND	3	MWD Only
8 D	S13-005	2500 PCH	10/11/2017	24.0	8.10	3.10	0.08	0.46	0.00	0.006	0.40	Α	ND	2	MWD Only
		· 				 -	 	For the second of the second	a. Postur imiliaren eta	Lauran arasi (Cristata)	•				
1 D	S13-003	1948 W 252nd St	10/18/2017	22.4	8.23	3.00	0.15	0.66	0.06	0.014	ND	A	ND	1	Well/MWD Blend
2 D	\$13-004	24632 S Moon Ave	10/18/2017	23.1	8.02	1.19	0.04	0.34	0.14	0.273	0.43	Α	ND	1	Well/MWD Blend
3 D	S13-008	25417 Pennsylvania Ave	10/18/2017	23.9	8.20	3.10	0.15	0.80	0.03	0.035	ND	_A	ND	1	Well/MWD Blend
4 D.		2052 Dawn St	10/18/2017	21.4	8.77	1.84	0.11	0.41	0.02	0.038	0.48	A	ND	1	Well/MWD Blend
5 D		Reservoir SP5	10/18/2017	21.7	· 7.79	3.34	0.05	0,94	0.00	0.007	ND	A	ND	1	Well/MWD Blend
6 D	S13-001	1912 W 259th St	10/18/2017	22.8	8.91	2.50	0.06	0.62	0.00	0.014	0.61	Α	ND	2	MWD Only
7 D	S13-002	26314 S Monte Vista Ave	10/18/2017	22.9	8.87	2.60	0.06	0.46	0.00	0.010	0.61	A	ND	3	MWD Only
8 D	S13-005	2500 PCH	10/18/2017	22.3	8.96	2.40	0.07	0.49	0.00	0.009	0.61	A	ND	2	MWD Only
								later and a second section to	Estata de Labora do Castro I	na sanan					Last Milliana Co. Co. Last
1 D	S13-003	1948 W 252nd St	10/25/2017	22.8	7.78	1.3	0.08	0,28	0.00	0.010	ND	A	ND	1	Well/MWD Blend Well/MWD Blend
2 D		24632 S Moon Ave	10/25/2017	21.4	7.32	0.74	0.15	.: 0.14	0.06	0.106	ND	Α	39	1	
3 D	S13-008	25417 Pennsylvania Ave	10/25/2017	22.0	7.64	1.53	0.13	0.27	0.00	0.021	ND	A	ND_	1	Well/MWD Blend
4 D	Α	2052 Dawn St	10/25/2017	22.7	8.24	1.83	0.15	0.40	0.06	0.033	ND	A	ND ND	1	Well/MWD Blend
5 D		Reservoir SP5	10/25/2017	22.0	7.94	2.02	0.08	0.36	0.00	0.012	ND ND	A		2	Well/MWD Blend
6 D		1912 W 259th St	10/25/2017	19.9	8.54	2.60	0.11	0.50	0.02	0.009	0.58	A	ND ND	3	MWD Only MWD Only
7 D		26314 S Monte Vista Ave	10/25/2017	19.9	8.56	2.50	0.10	0.52	0.00	0.007	0.58	Α		2	1
8 D	513-005	2500 PCH	10/25/2017	19.9	8.48	2.60	0.05	0.50	0.06	0.018	0.59	Α _	ND	<u> </u>	MWD Only
			1				1	legn saterjalsed	SHORT SERVICE	COLUMN TO SERVICE AT		ı		1	Well/MWD Blend
1 D		1948 W 252nd St				<u> </u>		Salar et da Salar Et eta eta eta eta eta eta eta eta eta et						1	Well/MWD Blend
2 D		24632 S Moon Ave		_				14.43 mg + 31.		Sabath frie fried in the				1	Well/MWD Blend
3 D		25417 Pennsylvania Ave						8-2006 9043		3 p. Java 1934	<u>.</u>	<u> </u>		1	Well/MWD Blend
4 D	Α	2052 Dawn St			-				Company of Agency Co.	10,43,400(12), 165(4) 102,51,441,454,456				1	Well/MWD Blend
5 D		Reservoir			.=				teritoria de la como d La como de la como de		*	-		2	MWD Only
6 D		1912 W 259th St	 				 		Denis Pers (1922) (1947) Denis Personal			 		3	MWD Only
7 D		26314 S Monte Vista Ave			<u> </u>			TO SECURITY OF THE SECOND			-		_	2	MWD Only
8 D	S13-005	2500 PCH						Buckling Amen		(2) (2) (2) (2) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		!	<u> </u>	<u> </u>	INIMA CHIN

Notes: Report Due to DDW by the 10th 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).

²Coliform results are part of weekly Bacti sampling results.

³The City is monitoring trends of Nitrite in Zone I, in accordance with the Nitrification Monitoring Plan. Due to elevated reads additional hydrant flushing has been implemented.