CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

January 2018

CITY COUNCIL

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ADMINISTRATION

RYAN SMOOT
CITY MANAGER

CITY OF LOMITA

February 12, 2018

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

Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of January 1 through January 31, 2018.

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 January 2018.

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

Sincerely,

Mark Andersen

Field Operations Manager

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 January 2018 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 378 gpm and 349 gpm from MWD. The blend ratio for month was 52% Well water and 48% MWD water. See Table 1 below for production totals for the month of January 2018.

Table 1. Monthly Production Totals.

The state of the s		
F - A - A - A - A - A - A - A - A - A -	Production	for January 2018
Well No. 5	47.68 ac-ft	15,536,581 (gallons)
MWD	43.43 ac-ft	14/15/1 000 (gallons)
Combined Total	91.11 ac-ft	29,687,581 (gallons)
Daily	2.94 ac-ft/day	957,664 (gallons/day)

C. OPERATIONAL INTERRUPTIONS

There were no operational interruptions during the month of January 2018. Routine and preventive maintenance was performed on various pieces of equipment as-needed. 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 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 600 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 770 mg/L and 250 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 240 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 0.35 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 January 2018 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 2.0 units for the month.

E4. NITRIFICATION MONITORING

Weekly nitrification sampling was performed during the month of January 2018 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 Rav	v Water	Discha	arge		Pres	Comb sure I	Filter	SP3, /		nloramin			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
1/3/2018											ND	300	ND	50	5	15
1/10/2018	230	300	170	50	10	15	Α	Α	Α	500	ND	300	ND	50	5	15
1/17/2018											ND	300	ND	50	5	15
1/24/2018											ND	300	ND	50	7.5	15
1/31/2018											ND	300	ND	50	5	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
1/3/2018	4.78	0.49	6.33	0.90	0.47	4.11	0.86	0.04	3.37	0.67
1/10/2018	6.17	0.83	5.87	1.05	0.48	4.82	0.91	0.06	3.47	0.75
1/17/2018	4.71	0.44	5.46	1.01	0.44	4.67	0.93	0.11	3.50	0.87
1/24/2018	5.37	0.62	4.97	1.03	0.40	4.75	0.94	0.11	3.40	0.71
1/31/2018	5.23	0.42	6.54	0.92	0.45	4.46	0.83	0.10	3.64	0.65

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

		TD	S, mg/L		T.C	D.N.		Hardn	iess, m	g/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
1/3/2018			570	500-750	2	3						0.30
1/10/2018	770	250	560	500-750	2	3	370	100	240	180-250	3.5	0.43
1/17/2018			620	500-750	2	3						0.32
1/24/2018			620	500-750	2	3						0.37
1/31/2018			630	500-750	2	3						0.31
Average			600	500-750	2	3						0.35

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 – JANUARY 2018 Cypress Water Production Facility City of Lomita; System No. 1910073

Sample Locations	Frequency	MCL/	1/3	1/10	1/17	1/24	1/31	Comments
and Parameters	ricquoncy	Goal	1stWk	2 nd Wk	3rdWk	4 th Wk	5 th Wk	
and raiameters		Goai	ISIVVK	Z VVK	SIUVVK	4 VVK	5 VVK	and/or
			or Mo.					Other Info.
			Result					
			(date)					
SP1 Also called	Well 5 Raw	Water c	r Site#1.					
TDS, ppm	Monthly	See SP5	770	Operations	Data/Inforn	nation:		*Chlorine injected after
Hardness	Monthly	See SP5	1/10 370	CWPF opera	ition days			SP1, before entering the greensand filter.
naruness	Monuniy	000 01 0	1/10			070		l and groundaria interi
CH4, ppm	Monthly	See SP5	3.5	On Well 5: L	Daily average	low – 378 gpn	n; total prod.	
Iron, ppb	Monthly	See SP3	1/10 230		Vell 5/MWD da			
поп, ррь	Wiorithiy	000 01 0	1/10	blend Ratio – 91.11 AF	- 52% WELL: 4	18% MWD; tot	al prod	
Manganese, ppb	Monthly	See SP3	170	31.11 A				
0-1	NA - m tile iv	See SP3	1/10	Chlorine Do	sage: N/A*			
Color, units	Monthly	3ee 3F3	10 1/10					
Total Coliform, P or A	Monthly	Α	Α					
000 41 11 1	F'14 F 661		1/10					
SP2 Also called	Control Street and Street Stre	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	te#3.					T * A
Total Coliform, P or A	Monthly	A	A	Δmmonia Γ	osage: N/A*			*Ammonia added after filter effluent
HPC,MPN/100 ml	Monthly Continuous	500						- mor omdon
Free Cl Res, ppm				ge: 4.71 -				
SP3 Also called	A SECURIOR STATE OF THE PROPERTY OF THE PROPER	THE PERSON NAMED IN COLUMN 2 I	AND THE PARTY OF T	AND PROPERTY OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	STREET, ST. CO. LANSING STREET, ST. CO. LANSING ST. CO.	
Iron, ppb	Weekly	ND	ND	ND	ND	ND	ND	1
Manganese, ppb	Weekly	50	ND	ND	ND	ND	ND	1
Color	Weekly	15	5	5	5	7.5	5	1
Free and Total CI Res,	VVEEKIY	Free Cl: A	verage: 0.56	Range: 0.4	42 – 0.83	7.5	5	_
CONTRACTOR		Free Cl: A	Average: 0.56 Average: 5.8	6; Range: 0.4 3; Range: 4	42 - 0.83 .97 - 6.54	7.5	5	
Free and Total CI Res, ppm	Continuous	Free CI: A Total CI: A Ammonia	Average: 0.56 Average: 5.8 : Average:0.9	6; Range: 0.4 3; Range: 4 98; Range: 0	42 - 0.83 .97 - 6.54).90 - 1.05			phate Injection.
Free and Total CI Res, ppm SP4 Also called	Continuous	Free Cl: A Total Cl: A Ammonia	Average: 0.56 Average: 5.8 : Average:0.9 or the Site	6; Range: 0.4 3; Range: 4 98; Range: 0 • Well 5/M	42 - 0.83 .97 - 6.54).90 - 1.05			phate Injection.
Free and Total CI Res, ppm	Continuous	Free CI: A Total CI: A Ammonia Influent of Phosphat	Average: 0.56 Average: 5.8 : Average:0.9 or the Site e Dosage: 0	6; Range: 0.4 3; Range: 4 98; Range: 0 • Well 5/M	42 – 0.83 .97 - 6.54 0.90 – 1.05 WD Water			phate Injection. CI/NH3 Ratio:
Free and Total CI Res, ppm SP4 Also called Phosphate Injection	Continuous Reservoir	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A Total CI: A	Average: 0.56 Average: 5.8 : Average:0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 4.6	5; Range: 0.3; Range: 498; Range: 6 • Well 5/M 0.92 mg/L 4; Range: 0.3; Range: 4.	42 – 0.83 .97 - 6.54 0.90 – 1.05 WD Water .40 – 0.48 11 – 4.82			
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm	Reservoir Continuous	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A Total CI: A Ammonia	Average: 0.56 Average: 5.8 : Average:0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 4.6 : Average: 0	5; Range: 0.3; Range: 498; Range: 6 Well 5/M 0.92 mg/L 4; Range: 0.3; Range: 4.91; Range:	42 – 0.83 .97 - 6.54 0.90 – 1.05 WD Water .40 – 0.48 11 – 4.82 0.83 – 0.94	Blend Po	int/Phosp	CI/NH3 Ratio: 5.10
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called	Reservoir Continuous Reservoir	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A Total CI: A Ammonia Effluent	Average: 0.56 Average: 5.8 : Average:0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 4.6 : Average: 0	5; Range: 0.3; Range: 498; Range: 6 Well 5/M 0.92 mg/L 4; Range: 0.3; Range: 4.91; Range:	42 – 0.83 .97 - 6.54 0.90 – 1.05 WD Water .40 – 0.48 11 – 4.82 0.83 – 0.94	Blend Po	int/Phosp	CI/NH3 Ratio: 5.10
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res,	Reservoir Continuous	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A Total CI: A Ammonia	Average: 0.56 Average: 5.8 : Average:0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 4.6 : Average: 0	5; Range: 0.3; Range: 498; Range: 6 Well 5/M 0.92 mg/L 4; Range: 0.3; Range: 4.91; Range:	42 – 0.83 .97 - 6.54 0.90 – 1.05 WD Water .40 – 0.48 11 – 4.82 0.83 – 0.94	Blend Po	int/Phosp	CI/NH3 Ratio: 5.10
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Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C CH4 ppmv; using	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A Total CI: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free CI: Total CI: A Ammonia	Average: 0.56 Average: 5.8 : Average: 0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 0.4 Average: 0.0 or Site#5. 570 0.30 2 Average: 3.4 : Average: 0.0 Average: 0.0 CH4 Aver	6; Range: 0.4 3; Range: 4 98; Range: 4 98; Range: 6 9 Well 5/M 0.92 mg/L 4; Range: 0.3; Range: 4. 91; Range: 4 91; Range: 3.3 9; Range: 0.7; Range: 3.3 7; Range: 3.3	42 - 0.83 .97 - 6.54 0.90 - 1.05 WD Water .40 - 0.48 11 - 4.82 0.83 - 0.94 .harges in 620 0.32 2 04 - 0.13 37 - 3.64	to Zone 1	of the dis	CI/NH3 Ratio: 5.10 Stribution system % CH4 Removal 90.1% CI/NH3 Ratio:
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C CH4 ppmv; using Portable Device	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log)	Free CI: A Total CI: A Ammonia Influent (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Average: 0.56 Average: 5.8 : Average: 0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 0.4 Average: 0 or Site#5. 570 0.30 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	5; Range: 0.3; Range: 498; Range: 498; Range: 6 2 Well 5/M 0.92 mg/L 4; Range: 0.3; Range: 4.91; Range: 560 240 0.43 3 9; Range: 0.4 7; Range: 3.3 7; Range: 6.7 7; Range: 0.7	42 - 0.83 .97 - 6.54 0.90 - 1.05 WD Water 40 - 0.48 11 - 4.82 0.83 - 0.94 charges in 620 0.32 2 04 - 0.13 37 - 3.64 0.65 - 0.87	to Zone 1 620 0.37 2	of the dis	CI/NH3 Ratio: 5.10 Stribution system % CH4 Removal 90.1% CI/NH3 Ratio: 4.64
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C CH4 ppmv; using Portable Device SP 6 MWD Sour	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log) Ce Feeding	Free CI: A Total CI: A Ammonia Influent (Phosphat Free CI: Total CI: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free CI: Total CI: A Ammonia eservoir. Goal - LEL CWPF.	Average: 0.56 Average: 5.8 : Average: 0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 0.4 Average: 0 or Site#5. 570 0.30 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	6; Range: 0.3; Range: 498; Range: 0.98; Range: 0.92 mg/L 4; Range: 0.3; Range: 4.91; Range: 560 240 0.43 3 9; Range: 0.7; Range: 0.7; Range: 3.3 75; Range: 0.96 rage: 0.96 rage: 0.96 rage: 0.96 rage: 0.96	42 - 0.83 .97 - 6.54 0.90 - 1.05 WD Water 40 - 0.48 11 - 4.82 0.83 - 0.94 charges in 620 0.32 2 04 - 0.13 37 - 3.64 0.65 - 0.87	to Zone 1 620 0.37 2	of the dis	CI/NH3 Ratio: 5.10 Stribution system % CH4 Removal 90.1% CI/NH3 Ratio: 4.64
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C CH4 ppmv; using Portable Device	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log)	Free CI: A Total CI: A Ammonia Influent (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Average: 0.56 Average: 5.8 : Average: 0.9 or the Site e Dosage: 0.4 Average: 0.4 Average: 0.4 Average: 0 or Site#5. 570 0.30 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	5; Range: 0.3; Range: 498; Range: 498; Range: 6 2 Well 5/M 0.92 mg/L 4; Range: 0.3; Range: 4.91; Range: 560 240 0.43 3 9; Range: 0.4 7; Range: 3.3 7; Range: 6.7 7; Range: 0.7	42 - 0.83 .97 - 6.54 0.90 - 1.05 WD Water 40 - 0.48 11 - 4.82 0.83 - 0.94 charges in 620 0.32 2 04 - 0.13 37 - 3.64 0.65 - 0.87	to Zone 1 620 0.37 2	of the dis	CI/NH3 Ratio: 5.10 Stribution system % CH4 Removal 90.1% CI/NH3 Ratio: 4.64

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

APPENDIX A

LABORATORY RESULTS



18 January 2018 Clinical Lab No.: 18A0346

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

Project Name: Standard Analysis

Sub Project: CWPF 1st Week of Jan, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/03/18 . 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 ofProjectStandard AnalysisWork Order:18A034624373 Walnut AvenueSub Project:CWPF 1st Week of Jan, 2018 Compliance SamplingReceived:01/03/18 14:00Lomita CA, 91717Project Manager:Mark AndersenReported:01/18/18

Reservoir Influent Site #3		18A0346-0	01 (Water)		Sample Da	te: 01/03/18	8:30 S	ampler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	6.33		N/A	mg/L	01/03/18	01/03/18	1801121	
pH (Field)	Field	7.51		N/A	pH Units	01/03/18	01/03/18	1801121	
Temperature (Field)	Field	20.4		N/A	°C	01/03/18	01/03/18	1801121	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	01/03/18	01/03/18	1801102	!
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/11/18	01/11/18	1802097	,
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/11/18	01/11/18	1802097	•
Reservoir Effluent Site #5		18A0346-0	02 (Water)		Sample Da	te: 01/03/18	8:35 S	ampler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.43		N/A	mg/L	01/03/18	01/03/18	1801121	
pH (Field)	Field	7.89		N/A	pH Units	01/03/18	01/03/18	1801121	
Temperature (Field)	Field	18.3		N/A	°C	01/03/18	01/03/18	1801121	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	01/03/18	01/03/18	1801102	!
Odor Threshold	EPA 140.1-M	2	1	3	TON	01/03/18	01/03/18	1801102	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	570	5.0	1000	mg/L	01/10/18	01/12/18	1802078	3
ND Analyte NOT DETECTED at or	above the reporting limit								



January 11, 2018



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: 18A0346

Lab Number:

J010504-01

Enclosed are results for sample(s) received 1/05/18 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

18A0346

SENDING LABORATORY:		RECEIVING LABORA	TORY:
Clinical Laboratory of San Bernard 21881 Barton Road	dino	Air Technology Labs 18501 East Gale Avenu	ne Suite 130
Grand Terrace, CA 92313		City of Industry, CA 91	
Phone: 909.825.7693 Fax: 909.825.7696		Phone :(626) 964-4032 Fax:	
Project Manager: Stu Styles		rax.	
Water Trax Upload Client:		ed []Yes []No []Yes []No	nelson@clinical-lab.com
Subcontract Comments:	_		
Analysis			Comments
Sample ID: Reservoir Effluent Site	#5 / 18A0346-02	Sampled: 01/03/18 08:35 PS 0 Water	Code: WTX ID:
Methane RSK175		1.11g	Report in mg/L
Containers Supplied:			
40ml Amber Vial (B)	40ml Amber Vial (C)	
Released By	1/5/18/12/30 Date/Time	Received By	4°C 260 750 1/5/18 1230 Date/Time
·	1 - ***	2000,000	Suc. Time
Released By	Date / Time	Received By	Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

18A0346

Date Received:

01/05/18

Matrix:

Water

Reporting Units: mg/L

RSK175

Lab No.:	J01050	4-01				
	Reservoir	Effluent				
Client Sample I.D.:	Site #5/18	A0346-				
	02					
Date/Time Sampled:	1/3/18	8:35				
Date/Time Analyzed:	1/10/18	10:28	×			
QC Batch No.:	180110G	GC8A1				
Analyst Initials:	AS	S				
Dilution Factor:	1.0)				
	Result	RL				
ANALYTE	mg/L	mg/L				
Methane	0.30	0.0010				

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.:

180110GC8A1

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 A	nalyzed:	1/10/1	8 10:14	1/10/	18 9:48	1/10/	18 10:01		
Analyst Ini	tials:	1	AS		AS		AS		
Data	afile:	10j	an008	10 <u>j</u>	an006	10j	an007		
Dilution Fa	ctor:	-]	1.0		1.0		1.0		
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	101	70-130%	104	70-130%	2.4	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:	Mark J. Johnson Operations Manage	<i>Mbll.</i>		Date:	Jul18
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The cover letter is an integral part of this analytical report.

 ϕ 13 Chain of Custody

Client		City of Lomita	Sy	System Nu	Number				Analysis	sis Re	Requested	eq		
Address		24373 Walnut Avenue			101	1010072						_		
		Lomita, CA 91717			<u> </u>	200						Т.		
Phone #		(310) 325-9830		7	estinatio	Destination Laboratory	'n					ntal		
Fax#		(310) 325-3627			X] Clinica	[X] Clinical Laboratory	2							
Project		Standard Analysis			RWQCB	RWQCB Compliance			l Dis on / !			CT	(
Sub Broisst	CWPF 1st w	CWPF 1st week of January, 2018 Compliance				ves				Colo	-		Odo	
ann Project	-	Sampling			冒	ELAP#							r	
Comments	For TC/EC/E	For TC/EC/BACT see weekly Distro CoC							olids ese					
Sampled by		Patrick McCue			=	1088					K175	C O3		
Date Ti	Time S	Sample Idenitification	Matrix	Type	Preserv	Hd	l'emp.	Total				<u> </u>		Comments / D.S. Codes
1/3/2018 0833		Reservoir Influent Site #3	MG	<u>*</u>	N/A	751	20H°	(6,:33	×	×				
											-			
1/3/2018 0%	O835 Reservoir Effluent Site #5	fluent Site #5	M	<u>*</u>	A/N	189	\$ 3\	3.43	×	×			×	
1/3/2018	OS35 Reservoir Effluent Site #5	fluent Site #5	.MG	1	2	7.09	S 2	37.3			×	-		
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Preservatives: (Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI) HNO3 (4) NH4CI	Matrix	: DW-Drin	king Wat	er, WW-Wa	sto Water,	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	Water,	GW-G	round	Water,	A-Air	Type- 1-Routine, 2-
(5) H2SO4	(6) Na2SO3 (7) Cold	(8) Other:					Rep	Repeat, 3-Replacement, 4-Special W-Well D- Dist.	laceme	nt, 4-S _I	se Gran	W-Wel	I D-Di	ist.
Relinquis	Relinquished By (Sign)	Print Name / Company			•	Date / Time	me		7					Print Name / Company
Patrick McCue		City of Lomita		1/3/2018		h://	~		>	×	7	7	T ,	SIX/O/W/O/N/
Treffich	TOWER			1.2.1	10/0	8		} \	1	N.	1	A	ل	
Comments:	2 M	2) werd car		,	San	Samples received:	ived:	On ice	$\left\{ \right. \right\}$			$\int_{\mathbf{R}}^{\mathbf{R}}$	s vboi	Custody seals Temp 6.5 () F () C
Chinned Via	\	Fod X Goldon State	30/1	- Clique		1000						,	٠ .	
nu de padding		1 J country State		ורווניו		, iller					rage	rage_1_oj_	-	



24 January 2018 Clinical Lab No.: 18A0894

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

Project Name: Standard Analysis

Sub Project: CWPF Monthly Compliance / 2nd Week of Jan, 2018

Enclosed are the results of the analyses for samples received at the laboratory on 01/10/18 . 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:18A089424373 Walnut AvenueSub Project:CWPF Monthly Compliance / 2nd Week of Jan, 2018 Received:01/10/18 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:01/24/18

Raw Water Site #1		18A0894-0	01 (Water)		Sample Da	te: 01/10/18	8 8:55 S	ampler: [OGM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0		N/A	mg/L	01/10/18	01/10/18	1802116	
pH (Field)	Field	7.48		N/A	pH Units	01/10/18	01/10/18	1802116	
Temperature (Field)	Field	21.5		N/A	°C	01/10/18	01/10/18	1802116	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	01/10/18	01/11/18	1802123	
E. Coli	SM 9223	A		N/A	P/A	01/10/18	01/11/18	1802123	
Plate Count	SM9215B	85	1	500	CFU/ml	01/10/18	01/12/18	1802172	
General Physical Analyses									
Apparent Color	SM 2120BM	10.0	3.0	15	Color Units	01/10/18	01/10/18	1802127	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	370	6.6	N/A	mg/L	01/16/18	01/16/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	770	5.0	1000	mg/L	01/12/18	01/16/18	1802144	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	95	1.0	N/A	mg/L	01/16/18	01/16/18	1803057	
Iron (Fe)	EPA 200.7	230	100	300	ug/L	01/17/18	01/17/18	1803072	
Magnesium (Mg)	EPA 200.7	31	1.0	N/A	mg/L	01/16/18	01/16/18	1803057	
Manganese (Mn)	EPA 200.7	170	20	50	ug/L	01/17/18	01/17/18	1803072	
Filter Effluent (Free Chlorine) Site #2		18A0894-0	02 (Water)		Sample Da	te: 01/10/18	9:00 S	ampler: D	OGM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	6.42		N/A	mg/L	01/10/18	01/10/18	1802116	
pH (Field)	Field	7.46		N/A	pH Units	01/10/18	01/10/18	1802116	
Temperature (Field)	Field	21.5		N/A	°C	01/10/18	01/10/18	1802116	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	01/10/18	01/11/18	1802123	
E. Coli	SM 9223	A		N/A	P/A	01/10/18	01/11/18	1802123	
Plate Count	SM9215B	ND	1	500	CFU/ml	01/10/18	01/12/18	1802172	



Lomita, City ofProjectStandard AnalysisWork Order:18A089424373 Walnut AvenueSub Project:CWPF Monthly Compliance / 2nd Week of Jan, 2018 Received:01/10/18 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:01/24/18

Filter Effluent (Total Chlorine) Site #3		18A0894-0	03 (Water)		Sample Da	te: 01/10/18	8 9:05 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	6.72		N/A	mg/L	01/10/18	01/10/18	1802116	
pH (Field)	Field	7.5		N/A	pH Units	01/10/18	01/10/18	1802116	
Temperature (Field)	Field	22		N/A	°C	01/10/18	01/10/18	1802116	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	01/10/18	01/10/18	1802127	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/17/18	01/17/18	1803072	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/17/18	01/17/18	1803072	
Zone #2 Site #6		18A0894-0	04 (Water)		Sample Da	te: 01/10/18	8 9:07 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.56		N/A	mg/L	01/10/18	01/10/18	1802116	
pH (Field)	Field	8.54		N/A	pH Units	01/10/18	01/10/18	1802116	
Temperature (Field)	Field	16.5		N/A	°C	01/10/18	01/10/18	1802116	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	100	6.6	N/A	mg/L	01/16/18	01/16/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	250	5.0	1000	mg/L	01/12/18	01/16/18	1802144	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	22	1.0	N/A	mg/L	01/16/18	01/16/18	1803057	
	EPA 200.7	11			-	01/16/18	01/16/18	1803057	



Lomita, City ofProject:Standard AnalysisWork Order:18A089424373 Walnut AvenueSub Project:CWPF Monthly Compliance / 2nd Week of Jan, 2018 Received:01/10/18 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:01/24/18

Reservoir Effluent Site #5		18A0894-0	05 (Water)		Sample Da	ate: 01/10/1	8 9:10 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.43		N/A	mg/L	01/10/18	01/10/18	1802116	
pH (Field)	Field	7.78		N/A	pH Units	01/10/18	01/10/18	1802116	
Temperature (Field)	Field	18.5		N/A	°C	01/10/18	01/10/18	1802116	
General Physical Analyses									
Odor Threshold	EPA 140.1-M	2	1	3	TON	01/10/18	01/10/18	1802127	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	240	6.6	N/A	mg/L	01/16/18	01/16/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	560	5.0	1000	mg/L	01/12/18	01/16/18	1802144	
Metals									
Calcium (Ca)	EPA 200.7	60	1.0	N/A	mg/L	01/16/18	01/16/18	1803057	
Magnesium (Mg)	EPA 200.7	22	1.0	N/A	mg/L	01/16/18	01/16/18	1803057	
ND Analyte NOT DETECTED at or	r above the reporting limit								



January 18, 2018

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

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

TX Cert T104704450-14-6

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

LABORATORY TEST RESULTS

Project Reference: 18A0894

Lab Number:

J011102-01/02

Enclosed are results for sample(s) received 1/11/18 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 18A0894

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Jöl	11	12-	10	/x7
	. 1	U	1	02

SENDING LABORATORY:	RECEIVING LABORATORY:	H
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:	19 .
Please email results to Project Manager: Str		
	@clinical-lab.com [√] styles@clinical-lab.com [] nelson@clinica	al-lab.com
California EDT transfer those sample Water Trax Upload Client:	les with PS codes provided [] Yes [] No [] Yes [] No	
Turn Around Time [] 10 Days [V]/Subcontract Comments:	5 Days [] Other Days	
Analysis	Comments	÷
Sample ID: Raw Water Site #1 / 18A0894-01	Sampled: 01/10/18 08:55 PS Code: Water WTX ID:	or security and a second or security of the second of
Methane RSK175 Containers Supplied: 40ml Amber Vial (B)	Report in mg 40ml Amber Vial (C)	z/L
Sample ID: Reservoir Effluent Site #5 / 18A0		
V	Water WTX ID:	www.esee.s
Methane RSK175	Report in mg	t/L
Containers Supplied: 40ml Amber Vial (B)	40ml Amber Vial (C)	ķ
	The second colors and the second colors of the second colors of the second colors and th	6 (A. 18 (A. 1. 1887) - 1000(1800) - 1000(1800)
	The second secon	Y
		3°0
Bu sh oili	1/18 07:40 (Note Author) 1-11 Received By Date/	

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

18A0894

Date Received:

01/11/18

Matrix:

Water

Reporting Units: mg/L

RSK175

Lab No.:	J01110	02-01	J01110	02-02			
	Raw V	Vater	Reservoir	Effluent			
Client Sample I.D.:	Site 7	#1 /	Site 7	4 5 /			
	18A08	94-01	18A089	94-05			
Date/Time Sampled:	1/10/18	8 8:55	1/10/18	3 9:10			
Date/Time Analyzed:	1/16/18	11:00	1/16/18	11:27			
QC Batch No.:	1801160	GC8A1	1801160	GC8A1			
Analyst Initials:	AS	5	AS	5			
Dilution Factor:	1.0)	1.0)	* "		
	Result	RL	Result	RL			
ANALYTE	mg/L	mg/L	mg/L	mg/L		o .	
Methane	3.5	0.0010	0.43	0.0010			

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:	11/1/20.1
	Mark Johnson

Operations Manager

Date 1/18/18

The cover letter is an integral part of this analytical report

QC Batch No.:

180116GC8A1

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 Analyzed:	1/16/	18 9:34	1/16/	18 10:30	1/16/	18 10:45		
Ana	alyst Initials:	1	AS		AS		AS		
	Datafile:	16j	an004	16	jan008	16	jan009		
Dilu	ution Factor:]	1.0		1.0		1.0		
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	105	70-130%	97	70-130%	7.7	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:	untell.	1	Date:	1/18/18
	Mark J. Johnson			
	Operations Manager			

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

西華 章

Chain of Custody

•																	>	
Client			City of Lomita	Sy	System Number	umber				Ana	Analysis Requested	Redn	este	_				
Address		24.	24373 Walnut Avenue			10	040072	_										
			Lomita, CA 91717					•							11/1	M		
Phone #			(310) 325-9830			Destinat	Destination Laboratory	ntory		T			Не		eun	o th		
Fax#			(310) 325-3627			[X] Clini	[X] Clinical Laboratory	itory			Iro	<u>T</u>						
Project		5	Standard Analysis			RWQCE	RWQCB Compliance	ıce						(
Sub Project		CWPF Mo	CWPF Monthly Compliance Samples; 2nd week of Jan., 2018				YES ELAP#			ssolved	E. Coli Mang	Colifo	nic Plat	Color	Odor	ardnes ATER		
Comments							000				anese	orm			(K3			
Sampled by			DGM	,			000						ınt		K1/3	L 175		
Date	Time	Sar	Sample Idenitification	Matrix	Type	Preserv	Temp.	Hd	Total						')	`		
1/10/2018	8480		Raw Water Site #1	βM	<u>\$</u>	Ž	517 2160	34.7	Ø	×	×	-		×				
1/10/2018	2530		Raw Water Site #1	βM	<u>*</u>	1, 2, 7						×	×		,	×		
								746					_					
1/10/2018	<i>390</i> 0	Filter Eff	Filter Effluent (Free Chlorine) Site#2	WG	2	1,7	2.5	4	249			×	×					
1/10/2018	0905	Filter Effi	Filter Effluent (Total Chlorine) Site#3	DW	1W	N/A	22.c°	750	6.72		×			×				
1/10/2018	L060	20	Zone #2 Site #6	DW	110	N/A	165°	8.54	2.56	×						×		
1/10/2018	C910	Res	Reservoir Effluent Site #5	DW	aı	V/N	1853	7.78	3.43	7.		_	<u> </u>		×	×		
1/10/2018	0410	Res	Reservoir Effluent Site #5	DW	Q1	2,7										×		
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3	: (1) Na ₂ S ₂ O ₃	(2) HCI (3) HN	VO3 (4) NH4CI	Matrix	c: DW-Dı	inking W	ater, WW-	Waste Wat	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	m Wat	er, GV	1 Gro	M pur	ater, A	-Air			Type- 1-
Reling	Relinguished By (Sign)	Sign)	Print Name / Company	۾ آ			Date / Time	Time	repeat, 5-11) Juace		Poco P	A Por	ved By (Sign		_ _	Print Nan	Print Name & Company
Patrick McCue		0	City of Lomita, CA		1/10/20)/2018	2:1/	9	7		77	T	1			Ź		1/186
Patrick	r Me	Se	JOHON I	C13	14 2	81.01	/3:30	0		1			7			0		<u>S</u>
Comment.	306	J/C	160			Samp	Samples received:	/ed:	On ice () III	E E	()	Cus	ody s	seals	Temp	0.9	() F
Shipped			[] Fed X Golden State	Sanll	/PS	Client	Other	"					Pa	Page 1	1 Ju			



01 February 2018 Clinical Lab No.: 18A1631

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

Project Name: Standard Analysis

Sub Project: CWPF 3rd Week of Jan, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/17/18 . 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:18A163124373 Walnut AvenueSub Project:CWPF 3rd Week of Jan, 2018 Compliance SamplingReceived:01/17/18 15:30

Lomita CA, 91717 Project Manager: Mark Andersen Reported

Reported: 02/01/18

Reservoir Influent Site #3		18A1631-0	01 (Water)		Sample Da	te: 01/17/18	9:38 Sa	mpler: Pa	atrick McCu
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	7.3		N/A	mg/L	01/17/18	01/17/18	1803125	
pH (Field)	Field	7.58		N/A	pH Units	01/17/18	01/17/18	1803125	
Temperature (Field)	Field	21.3		N/A	°C	01/17/18	01/17/18	1803125	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	01/17/18	01/17/18	1803153	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/23/18	01/23/18	1804051	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/23/18	01/23/18	1804051	
Reservoir Effluent Site #5		18A1631-0	02 (Water)		Sample Da	te: 01/17/18	9:45 Sa	mpler: Pa	atrick McCu
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.49		N/A	mg/L	01/17/18	01/17/18	1803125	
pH (Field)	Field	7.82		N/A	pH Units	01/17/18	01/17/18	1803125	
Temperature (Field)	Field	19.8		N/A	°C	01/17/18	01/17/18	1803125	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	01/17/18	01/17/18	1803153	
Odor Threshold	EPA 140.1-M	2	1	3	TON	01/17/18	01/17/18	1803153	
General Chemical Analyses									



January 26, 2018



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: 18A1631 Lab Number:

J011902-01

Enclosed are results for sample(s) received 1/19/18 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 18A1631

J011902-01

Date / Time

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-lab.c	om [√] styles@clinical-lab.com [] nelson@clinical-lab.com
California EDT transfer those samples with PS coo Water Trax Upload Client:	des provided [] Yes [] No [] Yes [] No
Turn Around Time [] 10 Days [5 Days [] Subcontract Comments:	Other Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 18A1631-02	Sampled: 01/17/18 09:45 PS Code:
	Water WTX ID:
Methane RSK175	Report in mg/L
Containers Supplied:	Olympia del mario del Sultri
Oml Amber Vial (B) 40ml Amber V	
Tomi Amoer v	
ž	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and the second of the second o
is the second was selected as	
The state of the s	e security of the security of
	The same of the sa
	· •
sagan a menera i o den de a	a the the material and a second and according to
a contract which we have the contract to the c	and the second s
	5°C
Released By Date / Time	Received By Date / Time

Received By

Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.: Date Received: 18A1631

Matrix:

01/19/18 Water

Reporting Units: mg/L

TO	THE	4 = 1
L) \	- K	1/4
TAY	SK	1/

Lab No.:	J011902-01					
	Reservoir	Effluent				
Client Sample I.D.:	Site #5/18	BA1631-				
А	02					
Date/Time Sampled:	1/17/18	9:45				
Date/Time Analyzed:	1/26/18	10:06				
QC Batch No.:	180126GC8A1		9			
Analyst Initials:	AS	5		<u></u>		
Dilution Factor:	1.0)				
	Result	RL				
ANALYTE	mg/L	mg/L			-	
Methane	0.32	0.0010				

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

RL = Reporting Limit

Reviewed/Approved By:

Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.:

180126GC8A1

Matrix:

Water

Units:

mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

La	Lab No.:			LCS		LCSD			
Date/Time A	Date/Time Analyzed:			1/26/18 9:26		1/26/18 9:38			
Analyst Ir	Analyst Initials:		AS		AS		AS		
Da	Datafile:		26jan004		26jan002		26jan003		
Dilution F	tion Factor: 1.0		1.0	1.0			1.0		*
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	119	70-130%	120	70-130%	0.7	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:	11/1/201	do	Date:	ikelis
	Mark J. Johnson Operations Manager	/		7 (**

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

4 (3 Chain of Custody

1841631	Analysis Requested	Odor BACT/TC/HPC Total Hardness (as CaCO3) Methane (Water) (RSK175)							X	X	х			
	ysis R	-		7	 Fotal		olor solved S	Soli	ds			X	X	
	Anal				Iro	n / N	1angan	ese				×		
											Total (Blorine	7,30	3,49	
				2	2						Trmp.	21.3"	19.68	
<u></u>		0700	2700181	Destination Laboratory	[X] Clinical Laboratory	RWQCB Compliance	yes FIAD#		4000	000	핕	758	787	
	mber	707	20	Destination	X] Clinica	RWQCB C	בו ^י		7	_	Preserv	N/A	N/A	2
	System Number			3							Туре	1W	ΜI	MΙ
	Ś		r				100				Matrix	DW	DW	MO
	City of Lomita	24373 Walnut Avenue	Lomita, CA 91717	(310) 325-9830	(310) 325-3627	Standard Analysis	CWPF 3rd week of January, 2018 Compliance Samulino	8J.	For TC/EC/BACT see weekly Distro CoC	Patrick McCue	Sample Idenitification	1/17/2018 \mathcal{O} 3 \mathcal{R} Reservoir Influent Site #3	1/17/2018 어식도 Reservoir Effluent Site #5	1/17/2018 〇억석ら Reservoir Effluent Site #5
							ğ		S	, Sy	Time	938	546	0945
•	Client	Address		Phone #	Fax#	Project	Sub Project		Comments	Sampled by	Date	1/17/2018	1/17/2018	1/17/2018

Type- 1-Routine, 2-

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Repeat, 3-Replacement, 4-Special W-Well D-Dist.

Preservatives: (1) Na₂S₂O₃ (2) HCI (3) HNO3 (4) NH4CI (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:



08 February 2018 Clinical Lab No.: 18A2096

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

Project Name: Standard Analysis

Sub Project: CWPF 4th Week of Jan, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/24/18 . 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 ofProjectStandard AnalysisWork Order:18A209624373 Walnut AvenueSub Project:CWPF 4th Week of Jan, 2018 Compliance SamplingReceived:01/24/18 16:00Lomita CA, 91717Project Manager:Mark AndersenReported:02/08/18

Reservoir Influent Site #3		18A2096-0	01 (Water)		Sample Da	te: 01/24/18	9:43 S a	ampler: P	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	6.3		N/A	mg/L	01/24/18	01/24/18	1804116	
pH (Field)	Field	7.5		N/A	pH Units	01/24/18	01/24/18	1804116	
Temperature (Field)	Field	21.5		N/A	°C	01/24/18	01/24/18	1804116	
General Physical Analyses									
Apparent Color	SM 2120BM	7.5	3.0	15	Color Units	01/24/18	01/24/18	1804125	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/29/18	01/29/18	1805007	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/29/18	01/29/18	1805007	
Reservoir Effluent Site #5		18A2096-0	02 (Water)		Sample Da	te: 01/24/18	9:46 S a	ampler: P	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.53		N/A	mg/L	01/24/18	01/24/18	1804116	
pH (Field)	Field	7.79		N/A	pH Units	01/24/18	01/24/18	1804116	
Temperature (Field)	Field	19.2		N/A	°C	01/24/18	01/24/18	1804116	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	01/24/18	01/24/18	1804125	
Odor Threshold	EPA 140.1-M	2	1	3	TON	01/24/18	01/24/18	1804125	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	620	5.0	1000	mg/L	01/29/18	01/30/18	1805011	
ND Analyte NOT DETECTED at o	r above the reporting limit								



February 1, 2018



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: 18A2096 Lab Number:

J012507-01

Enclosed are results for sample(s) received 1/25/18 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

Mell.

MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

J012507-01

Clinical Laboratory of San Bernardino

	18A2U90
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 [] No [] Yes [] No
Turn Around Time [] 10 Days	[] Other Days
8	The whole the state of the first of the state of the stat
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 18A2096-02	Sampled: 01/24/18 09:46 PS Code: Water WTX ID:
1 W A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Va Santagay was ?
Methane RSK175	Report in mg/L
ontainers Supplied:	
0ml Amber Vial (B) 40ml A	mber Vial (C)

7°C

3.		01/2-110- 00	m	All Housed dias
Released By	Jy.	01/25/18 07:45	1/ leche	CAALAJAN//25/18 8.00
Released By		Date / Time	Received By	Date / Time
Much	re Adam	1/29/18 12-09	(Nain	Oclare 1209 1/25/18
Released By		Date / Time	Received By	Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

18A2096

Date Received:

01/25/18

Matrix:

Water

Reporting Units: mg/L

RSK175

Lab No.:	J01250	07-01					
	Reservoir						
Client Sample I.D.:	Site	#5/				V.	
•	18A209	96-02	,				
Date/Time Sampled:	1/24/18	9:46					
Date/Time Analyzed:	1/26/18	10:22					
QC Batch No.:	1801260	GC8A1					
Analyst Initials:	AS	8					
Dilution Factor:	1.0)	у.				
	Result	RL					
ANALYTE	mg/L	mg/L					
Methane	0.37	0.0010		a a			
					-		

BITTO	B.T.		/1 1	TO T \
ND =	= Not	Detected	(below	KL)

RL = Reporting Limit

Reviewed/Approved By:	11/801. 1	
	Mark Johnson	

Operations Manager

Date 2/1/18

The cover letter is an integral part of this analytical report

QC Batch No.:

180126GC8A1

Matrix: Units:

Water mg/L

0	C for	Dissolved	Cases	hw	EPA	Procedure	RSKSOP-175
V	101	DISSUIVEU	Gases	UY	LIA	riocedure	W2W2OL-1/2

Lab	No.:	Metho	d Blank]	LCS	L	CSD		
Date/Time Ar	alyzed:	1/26/	18 9:51	1/26	18 9:26	1/26/	18 9:38		
Analyst Ini	tials:	1	AS		AS		AS		
Data	file:	26j	an004	26	an002	26j	jan003		
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	119	70-130%	120	70-130%	0.7	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:	MAN.	for	Date:	Z	1./18	
	Mark J. Johnson	V				
	Operations Manager					

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

Address	Client		City of Lomita	Sys	System Nun	Number			4	Analysis Requested	is Rec	lueste	þ		
CHPF 4th week of January, 2018 Compiliance CHPF 4th week of January, 2018 CHPF 4th week of January, 2018 Compiliance CHPF 4th week of January, 2018 CHPF 4th week of January, 2	Address		24373 Walnut Avenue			1010	220								
CHPF 4th week of Januari, 2018 Compiliance RW00000 Compiliance RW000000 Compiliance RW000000 Compiliance RW000000 Compiliance RW000000 Compiliance RW000000 Compiliance RW0000000 Compiliance RW00000000 Compiliance RW00000000 Compiliance RW0000000000 Compiliance RW00000000000000000000000000000000000			Lomita, CA 91717			ופו	010								
11 11 11 11 11 11 11 1	Phone #		(310) 325-9830		De	tination	Laboratory			7					
CVPF 4th week of Junuary, 2018 Compliance	Fax#		(310) 325-3627		⊠	Clinical	Laboratory								
CWPP 4th week of January, 2U/8 Compliance For TCECGACT See week) District MacColor State Sample Identification Murin Type Preserved Pres	Project		Standard Analysis		¥	VQCB Co	mpliance				C			O	
For TCECREACE weeking Distroc Coc	Sub Project	CWPF 4th	h week of January, 2018 Compliance			уе	s				olor			dor	
For TC/EC/BACT see weekly Distro Coc For TC/EC/BACT see weekly Distro Coc	ann Liolect		Sampling			ELA	# #				•				
Time Sample Identification Marrix Type Preser Print Type Type Print Type	Comments	For TC/EC	2/BACT see weekly Distro CoC			7	0								
Identification Marin Type Preser pil Tronp Caharin Caharin Caharin Caharin P.S. Codes	Sampled by		Patrick McCue			2	00						.02)		
tte #5 DW IW NIA 7.50 21.5 6.3 X X X X X X X X X X X X X X X X X X X		ime_	Sample Idenitification	Matrix		Preserv	-		Total Thlorine						Comments / P.S. Codes
10 10 10 10 10 10 10 10		943 Reservoir	Influent Site #3	DW	WI	N/A) ş.	6.3	X	×				
10															
10 10 10 10 10 10 10 10		引し Reservoir	Effluent Site #5	DW	W	N/A		25	5.63	×	×			×	
Samples received: Print Samples received: Print Samples received: Print		946 Reservoir	Effluent Site #5	ΝG	<u>%</u>	2						×			
(4) NH4CI Print Name / Company City of Longita T. L. W. Colden State 1/124/2018 1/24/49															
A) NI-HACI										-			-		
April															
A NIHACI Matrix: DW-Drinking Water, WW-Waste Water, Sw. Storm Water, GW- Ground Water, A-Air Type- 1-Routine,		6.								<u> </u>			-		
A) NHAC															
A NH4C Matrix: DW-Drinking Water, WW-Waste Water, Storm Water, GW- Ground Water, A-Air Print Name / Company Print Name / Compa															
A NH4C Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Type- 1-Routine, Repeat, 3-Replacement, 4-Special W-Well D- Dist. Print Name / Company Print Name / Company City of Lomita 1/24/2018 1/24/2018 1/24/2018 1/24/3															
A NH4C Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air Type- 1-Routine, Repeat, 3-Replacement, 4-Special W-Well D- Dist. Print Name / Company City of Lomita 1/24/2018 1/2.15 City of Lomita 1/24/2018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/301 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/3018 1/24/30 1/24/3018 1/24/30										+		1	4		
City of Lomita 1/24/2018 1/24/3												_			T
quished By (Sign) Print Name / Company City of Lomita 1/24/2018	Preservatives:	(1) Na ₂ S ₂ O ₃ (2) HCI	(3) HNO3 (4) NH4CI	Matrix:	DW-DINKI	лд мател	, ww-waste	Water, S	ov-Storm	water, Iacemei	5W- 51	ound v	water, W-Well	A-AII D- Di	lype- 1-kouune,
City of Lomita 1/24/2018 12:15 City of Lomita 1/24/2018 12:15 City of Lomita J. U. A. O. U. A.	Relinaui	shed By (Sign)					Date / Time		(Print Name /
Samples received: Antact () Custody seals Temp 5.9 (Patrick McCue		City of Lomita	-	/24/2018	-	2115		7	X	8	*	4	T,	+
Samples received: On ice () Intact () Custody seals Temp_S.9 (Patrick	Mas	7. LWAN 1/15A		81.42	1	5			X) V			12	
	Comments	Sept.				Sam	ples receiv		6 si (6		ntact ($\left\{ \ \widehat{\ \ } \right.$	Cust	ody s	.S.9
C rea A Golden State Crient Other				2011	<u></u>	-	7		,			200	20 1		
	Shipped Via	<u> </u>		GD	Cuent	<u>5</u>	ner					rage	1-03-	ا,	

Clinical Laboratory of San Bernardino, Inc.



08 February 2018 Clinical Lab No.: 18A2623

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

Project Name: Standard Analysis

Sub Project: CWPF 5th Week of Jan, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/31/18 . 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

Clinical Laboratory of San Bernardino, Inc.



Lomita, City ofProject:Standard AnalysisWork Order:18A262324373 Walnut AvenueSub Project:CWPF 5th Week of Jan, 2018 Compliance SamplingReceived:01/31/18 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:02/08/18

Reservoir Influent Site #3		18A2623-0	01 (Water)		Sample Da	te: 01/31/18	8:30 S	ampler: Pa	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	6.54		N/A	mg/L	01/31/18	01/31/18	1805126	
pH (Field)	Field	7.53		N/A	pH Units	01/31/18	01/31/18	1805126	
Temperature (Field)	Field	21.3		N/A	°C	01/31/18	01/31/18	1805126	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	01/31/18	01/31/18	1805125	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	02/01/18	02/01/18	1805110	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	02/01/18	02/01/18	1805110	
Reservoir Effluent Site #5		18A2623-0	02 (Water)		Sample Da	te: 01/31/18	8:35 S 8	ampler: Pa	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.64		N/A	mg/L	01/31/18	01/31/18	1805126	
pH (Field)	Field	7.79		N/A	pH Units	01/31/18	01/31/18	1805126	
Temperature (Field)	Field	19		N/A	°C	01/31/18	01/31/18	1805126	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	01/31/18	01/31/18	1805125	
Odor Threshold	EPA 140.1-M	2	1	3	TON	01/31/18	01/31/18	1805125	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	630	5.0	1000	mg/L	02/02/18	02/06/18	1805157	
ND Analyte NOT DETECTED at or a	above the reporting limit								



February 7, 2018



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: 18A2623

Lab Number:

J020103 -01

Enclosed are results for sample(s) received 2/01/18 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 18A2623

J020103-01

SENDING LABORATORY:			RECEIVING LABORAT	TORY:	
Clinical Laboratory of San Be	ernardino		Air Technology Labs		
21881 Barton Road			18501 East Gale Avenue	e Suite 130	
Grand Terrace, CA 92313			City of Industry, CA 91'		
Phone: 909.825.7693			Phone :(626) 964-4032		
Fax: 909.825.7696			Fax:		
Project Manager: Stu Styles					
Water Trax Upload Cl	[] ybarra@clinical- er those samples with P ient:		ed [] Yes [V] No _ [] Yes [V] No	[] nelson@clinical-lab.	com
Analysis		all a second on a	g soften biller og bill Biller	Comments	
Methane RSK175 Containers Supplied:		Water	d: 01/31/18 08:35 PS Cod	WTX ID: Report in mg/L	
40ml Amber Vial (B)	40ml Am	ber Vial (C)	rott man, and, 19 tander Sant		= 10
	S S S S S S S S S S S S S S S S S S S	1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	And the second of the second o		5°C
Released By Michael Jalen Polosed By	02/01/18 Date / Time	18	Machael: Received By	Salayar 2/1/2 Date / Time 2/1/8	16 C:05
Released By	Date / Time]	Received By	Date / Time	1

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

18A2623

Date Received:

02/01/18

Matrix:

Water

Reporting Units: mg/L

	_	_		
TI D	a.	TT.	4 5	7 /
12	0	16		/=

Lab No.:	J02010	03-01			
	Reservoir	Effluent			
Client Sample I.D.:	Site #5/18	3A2623-			
-	02				
Date/Time Sampled:	1/31/18	8 8:35			
Date/Time Analyzed:	2/6/18	10:33			
QC Batch No.:	1802060	GC8A1			
Analyst Initials:	AS	S			-57
Dilution Factor:	1.0)			
	Result	RL			
ANALYTE	mg/L	mg/L			
Methane	0.31	0.0010			

MILE	- Not	Detected	(halaw	DI/
	- 1401	Detecteu	OPPOW	NLI

RL = Reporting Limit

Reviewed/Approved By: _	iMAll- 1
	Mark Johnson

Date 17/18

Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.:

180206GC8A1

Matrix: Units:

Water mg/L

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

Lab	No.:	Metho	d Blank	I	LCS	LCSD			
Date/Time Ar	alyzed:	2/6/13	8 10:20	2/6/	18 9:40	2/6/	18 9:53		
Analyst Ini	tials:	I	AS	9	AS	9	AS		
Data	Datafile:			06	eb003	061	feb004		
Dilution Fa	ctor:	1	.0		1.0	1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	111	70-130%	114	70-130%	2.2	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:	MAN.	t	Date:	2/7/18
	Mark J. Johnson	•		
	Operations Manager			

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

Ø 13

Client	City of Lomita	N metav2	m Nimber	ľ				Analy	Analysis Reguested	91100	peted				
וובווור	Cuy of Lonua	ayara		5			`		200	יבלמ	יייייייייייייייייייייייייייייייייייייי	ŀ	ŀ		
Address	24373 Walnut Avenue		_	1910073	073										
	Lomita, CA 91717									M	To				
Phone #	(310) 325-9830		Destii	nation L	Destination Laboratory					etha	otal				
Fax#	(310) 325-3627		၁ [X]	inical L	[X] Clinical Laboratory				 Fotal	ane	Ha	BA			
Project	Standard Analysis		RWG	CB Cor	RWQCB Compliance	:					rdn	CT/	0		
40.00	CWPF 5th week of January, 2018 Compliance			yes					olo		ess	тс	dor		
Sub Project	Sampling			ELAP#	#0			gane	r ed So		(as	/HF			
Comments	For TC/EC/BACT see weekly Distro CoC			1					lids	RSK	CaC	PC PC			
Sampled by	Patrick McCue			0001	0					175)	(O3)				
Date Time	Sample Idenitification	Matrix 1	Type Pre	Preserv	Hd	Temp.	Total Chlorine							Comment	Comments / P.S. Codes
1/31/2018 D 83C	OR3O Reservoir Influent Site #3	DW	N WI	N/A	7.53 21	.37 (H53	X	X						
								_	_						
1/31/2018	③ ○.3 Reservoir Effluent Site #5	DW	N N	N/A	1 66.7	90.6	3.64		X			-	×		
1/31/2018 523	ススパ Reservoir Effluent Site #5	DW.	WI	2						×					
Т		L						ŀ	ŀ	l	L	T	ŀ		
				1				\dagger	+	4			+		
						1		+	+				+		
			1	1				+							
	1.			-									_		
			,												
Preservatives: (1) Na	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI	Matrix: D	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	Water,	WW-Wast	e Water, S	SW-Storm	Wate	, GW	Grou	nd Wa	ter, A	Air		Type- 1-Routine, 2-
(5) H2SO4 (6) N	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:					Кер	Repeat, 3-Replacem	Jacen	ent, 4	Speci	iai W-	Mell 1	ent, 4-Special W-Well D- Dist.		•
Relinquished By (Sign)	By (Sign) Print Name / Company			1	Date / Time	me e		+	<u>`</u>				-	Print Nan	Print Name / Company
Patrick McCue	City of Lomita	1/3	1/31/2018	//	21,20	K	7	7	Z	1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	10 MG ST	SE
Lotrucke	2000 - 110110101C	108 1.	1.31.68	7	.30				78	Set (2	2)	/**** \square	CISE
Comment	man -1/1/2	1	`	Samp	Samples received:	Х	On ice		Intact	ct	ر حر	v Justo	dy sea	Custody seals Temp 5.0	7 () X
Shinned Via	Fed X Golden State	I UPS	Client	Other	er		 			Pay	Page 1	of 1			
Suippen run 1				-								1			

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

		JANU	ARY 2018	
DATE	DAY	METHANE	HANDHELD	COMMENTS
1/1/2018	Mon	CH4-	Оху-	NEW YEAR'S DAY
1/2/2018	Tue	CH4- 0%	Oxy- 19.2%	
1/3/2018	Wed	CH4- 0%	Oxy- 19.1%	
1/4/2018	Thu	CH4- 0%	Oxy- 19.3%	
1/5/2018	Fri	CH4- 0%	Oxy- 19.2%	
1/6/2018	Sat	CH4- 0%	Oxy- 19.2%	
1/7/2018	Sun	CH4- 0%	Oxy- 19.1%	
1/8/2018	Mon	CH4- 0%	Oxy- 19.0%	
1/9/2018	Tue	CH4- 0%	Oxy- 19.1%	
1/10/2018	Wed	CH4- 0%	Oxy- 19.0%	
1/11/2018	Thu	CH4- 0%	Oxy- 19.1%	
1/12/2018	Fri	CH4- 0%	Oxy- 19.2%	
1/13/2018	Sat	CH4- 0%	Oxy- 19.3%	
1/14/2018	Sun	CH4- 0%	Oxy- 19.2%	
1/15/2018	Mon	CH4-	Оху-	MARTIN LUTHER KING HOLIDAY
1/16/2018	Tue	CH4- 0%	Oxy- 19.1%	
1/17/2018	Wed	CH4- 0%	Oxy- 19.1%	
1/18/2018	Thu	CH4- 0%	Oxy- 19.1%	
1/19/2018	Fri	CH4- 0%	Oxy- 19.2%	
1/20/2018	Sat	CH4- 0%	Oxy- 19.2%	
1/21/2018	Sun	CH4- 0%	Oxy- 19.0%	
1/22/2018	Mon	CH4- 0%	Oxy- 19.0%	
1/23/2018	Tue	CH4- 0%	Oxy- 19.1%	
1/24/2018	Wed	CH4- 0%	Оху- 19.3%	
1/25/2018	Thu	CH4- 0%	Oxy- 19.0%	
1/26/2018	Fri	CH4- 0%	Oxy- 19.2%	
1/27/2018	Sat	CH4- 0%	Oxy- 19.2%	
1/28/2018	Sun	CH4- 0%	Оху- 19.3%	
1/29/2018	Mon	CH4- 0%	Oxy- 18.7%	
1/30/2018	Tue	CH4- 0%	Oxy- 19.1%	
1/31/2018	Wed	CH4- 0%	Oxy- 18.8%	

ND- Non Detect

CH4- Methane

Oxy- Oxygen

Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

¹ MONTHLY NITRIFICATION MONITORING SUMMARY REPORT CITY OF LOMITA, System No. 1910073 --- Month, Year: JANUARY 2018

# 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/C	thers ->		MM/DD/YYYY	°C		mg/L	mg/L	mg/L 🐀	mg/L	mg/L	mg/L	P/A	CFU/ml		
1 D	S13-003	1948 W 252nd St	1/3/2018	18.0	7.84	2.80	0.18	0.68	0.13	0.007	ND	А	ND	1	Well/MWD Blend
2 D	S13-004	24632 S Moon Ave	1/3/2018	18.4	7.64	1.05	0.05	0.23	0.12	0.059	0.43	Α	ND	1	Well/MWD Blend
3 D	S13-008	25417 Pennsylvania Ave	1/3/2018	18.0	7.75	2.80	0.15	0.56	0.12	0.012	ND	Α	ND	1	Weli/MWD Blend
4 D	A	2052 Dawn St	1/3/2018	16.4	8.42	2.03	0.05	0.54	0.06	0.007	0.47	А	ND	1	Well/MWD Blend
5 D		Reservoir SP5	1/3/2018	18.3	7.89	3.43	0.08	0.82	0.00	0.005	ND	A	ND	1	Well/MWD Blend
6 D	S13-001	1912 W 259th St	1/3/2018	16.7	8.47	2.30	0.08	0.48	0.04	0.004	0.45	A	ND	2	MWD Only
7 D	\$13-002	26314 S Monte Vista Ave	1/3/2018	16.6	8.46	2.30	0.06	0.47	0.01	0.006	0.45	A	ND	3	MWD Only
8 D	S13-005	2500 PCH	1/3/2018	16.1	8.45	2.40	0.09	0.44	0.00	0.006	0.46	Α	ND	2	MWD Only
1 D	S13-003	1948 W 252nd St	4 40 6004.0		- 00			ത്രം സംവചചച്ച മത്രത്ത് വ	Reservation to the second	el compresso avecado especial					
2 D	S13-003		1/10/2018	17.0	7.80	2.80	0.12	0.70	0.08	0.011	ND	A	ND	1	Well/MWD Blend
3 D	S13-004 S13-008	24632 S Moon Ave	1/10/2018	17.1	7.36	0.85	0.12	0.23	0.16	0.183	0.44	A	2	1	Well/MWD Blend
4 D	A A	25417 Pennsylvania Ave 2052 Dawn St	1/10/2018	18.7 15.5	7.79 7.49	2.70	0.08	0.64	0:07	0.024	ND OF E	A	ND	1	Weli/MWD Blend
5 D		Reservoir SP5	1/10/2018	18.5	7.49	2.07	0.07	0.50	0.03	0.010	0.51	A	ND	1	Well/MWD Blend
6 D		1912 W 259th St	1/10/2018	16.7	8,59	3.43 2.40	0.09	0.82	0.00	0.008	ND 0.5	A	ND		Well/MWD Blend
7 D		26314 S Monte Vista Ave	1/10/2018	16.7	8.65	2.40	0.09	0.54 0.48	0.07 0.03	0.010	0.5	A	ND		MWD Only
8 D		2500 PCH	1/10/2018	16.9	8.58	2.30	0.04	0.48		0.011	0.52	A	ND		MWD Only
	313-003	2.500 F C11	1/10/2016	10.9	0.36	2.30	0.50	U	0.03	0.006	0.51	A	ND	2	MWD Only
1 D	S13-003	1948 W 252nd St	1/17/2018	17.7	7.85	2.90	0.04	0.86	0.22	0.009	ND	A	1	1	Well/MWD Blend
2 D		24632 S Moon Ave	1/17/2018	18.0	7.64	0.60	0.00	0.48	0.20	0.045	0.46	A	11		Weli/MWD Blend
3 D		25417 Pennsylvania Ave	1/17/2018	17.1	7.79	2.90	0.00	0.70	0.24	0.022	0.40	A	2	_	Welf/MWD Blend
4 D		2052 Dawn St	1/17/2018	16.4	8.59	2.09	0.14	0.53	0.07	0.009	0.54	A	ND ND	1	Well/MWD Blend
5 D	_	Reservoir SP5	1/17/2018	19.8	7.82	3.49	0.11	0.96	0.18	0.007	ND	A	ND I		Well/MWD Blend
6 D		1912 W 259th St	1/17/2018	15.0	8.63	2.40	0.11	0.54	0.02	0.006	0.53	A	ND ND		MWD Only
7 D		26314 S Monte Vista Ave	1/17/2018	14.9	8.60	2.40	0.05	0.52	0.08	0.009	0.53	A	ND ND		MWD Only
8 D		2500 PCH	1/17/2018	14.5	8.64	2.40	0.00	0.56	0.06	0.005	0.53	A	ND ND		MWD Only
							0.00		, , , , , , , , , , , , , , , , , , ,	Programme and the second	0.55	A 1	ND		IVIVED OTHY
1 D	S13-003	1948 W 252nd St	1/24/2018	15.5	7.77	3.1	0.06	0.84	0.10	0.011	ND	А	ND	1	Well/MWD Blend
2 D	S13-004	24632 S Moon Ave	1/24/2018	16.5	7.73	1.15	0.01	0.40	0.18	0.090	0.51	A	ND		Weli/MWD Blend
3 D	S13-008	25417 Pennsylvania Ave	1/24/2018	17.3	7.90	2.90	0.04	0:90	0.27	0.070	ND	A	3		Well/MWD Blend
4 D	Α	2052 Dawn St	1/24/2018	15.0	8.01	2.40	0.07	0.55	0.07	0.008	0.42	A	ND		Weil/MWD Blend
5 D	1	Reservoir SP5	1/24/2018	19.2	7.79	3.53	0.08	1.14	0.12	. 40.012	ND	A	ND		Well/MWD Blend
6 D	S13-001	1912 W 259th St	1/24/2018	16.4	8.49	2.30	0.06	0.55	0.08	/- 0.008	ND	_ A	ND	_	MWD Only
7 D	S13-002	26314 S Monte Vista Ave	1/24/2018	16.4	8.52	2.40	0.05	0.50	0.07	- 0.010	ND	Α	ND	_	MWD Only
8 D	S13-005	2500 PCH	1/24/2018	16.1	8.42	2.20	0.04	0.53	0.04	0.009	0.42	A	ND	2	MWD Only
1 D		1948 W 252nd St	1/31/2018	16.0	7.90	3.10	0.05	0.68	0.16	0:012	ND	A	ND	1	Well/MWD Blend
2 D		24632 S Moon Ave	1/31/2018	16.3	7.35	1.10	0.02	0.28	0.18	0.073	0.43	А	8	1	Well/MWD Blend
3 D		25417 Pennsylvania Ave	1/31/2018	16.7	7.60	2.90	0.07	0:64	0:13	0.059	ND	Α	7	1	Well/MWD Blend
4 D		2052 Dawn St	1/31/2018	14.0	7.81	2.17	0.05	. ↓ 0.55 _%	0.11	0.003	0.50	Α	3	1	Weil/MWD Blend
5 D		Reservoir	1/31/2018	19.0	7.79	3.64	0.07	0.88		0.003	NĎ	Α .	ND	1	Well/MWD Blend
6 D		1912 W 259th St	1/31/2018	15.1	8.54	2.40	0.04	0.56	0.13	0.004	0.49	Α	ND	2	MWD Only
7 D		26314 S Monte Vista Ave	1/31/2018	15.4	8.43	2.40	0.04	- 0.54	0:08	0.004	0.49	A	2	3	MWD Only
8 D	S13-005	2500 PCH	1/31/2018	14.7	8.60	2.40	0.06	0.56	0.08	0:008	0.5	Α	ND	2	MWD Only

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.