CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

April 2019

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CITY COUNCIL

ADMINISTRATION

HENRY SANCHEZ, JR JIM GAZELEY MICHAEL SAVIDAN CINDY SEGAWA MARK WARONEK



RYAN SMOOT
CITY MANAGER

May 9, 2019

Mr. Dmitry Ginzburg, 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</u> (CWPF) for the period of April 1 through April 30, 2019.

Dear Mr. Ginzburg,

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 April 2019.

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

Sincerely,

Mark Andersen

Chief Water Operations Manager

A. BACKGROUND

On May 30, 2018, the City of Lomita received its Domestic Water Supply Permit Amendment from the State Water Resources Control Board, Division of Drinking Water 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 April 2019 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 372 gpm and 572 gpm from MWD. The blend ratio for month was 40% Well water and 60% MWD water. See Table 1 below for production totals for the month of April 2019.

Table 1. Monthly Production Totals.

	Production for April 2019								
Well No. 5	42.88	∘ac-ft +	13,972,109 (gallons)						
. MWD:	65 88	ac-ii - 🗠	/21:303:000 (gallons)						
Combined Total	108.26	ac-ft	35,275,109 (gallons)						
Daily	3.61	ac-ft/day	1,175,837 (gallons/day)						

C. OPERATIONAL INTERRUPTIONS

The CWPF was offline for one day due to VFD issues. 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 level. Iron for raw water was below the MCL level and Manganese was above the MCL level for the month. 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 484 mg/L. The TDS level of the effluent water <u>is below</u> 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 820 mg/L and 280 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 220 mg/L. This hardness level <u>meets</u> 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 0.26 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 April 2019 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 1.8 units for the month. Odor levels within the distribution system averaged 1.3 units for the month.

E3-6 TOTAL PHOSPHATE AND ORTHOPHOPHATE

See Table 5 below for a summary of the results for the monitoring of Orthophosphate and Total Phosphate both in the distribution system and CWPF.

E4. NITRIFICATION MONITORING

Weekly nitrification sampling was performed during this month following the City's Nitrification Monitoring Plan. Refer to Appendix C for results.

F. TABLES

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

SP1, Well Raw Water Discharge				Pres	SP2, Combined Pressure Filter Effluent SP3, After chloramination static meservoir entry				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
4/2/2019											ND	300	ND	50	5	15
4/9/2019	170	300	140	50	10	15	Α	Α	ND	500	ND	300	ND	50	7.5	15
4/17/2019											ND	300	ND	50	5	15
4/23/2019											ND	300	ND	50	7.5	15
4/30/2019						8					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			
	Free CI	Free CI	Total CI	Total NH ₃	Free CI	Total CI	Total NH ₃	Free CI	Total CI	Total NH ₃	
4/2/2019	8.60	0.90	6.20	0.79	0.68	4.52	0.71	0.12	3.48	0.65	
4/9/2019	9.23	1.00	7.20	0.80	0.50	4.73	0.62	0.06	3.32	0.60	
4/17/2019	8.97	0.75	6.35	0.73	0.44	4.74	0.63	0.13	3.36	0.56	
4/23/2019	8.80	0.95	8.20	0.85	0.50	4.88	0.76	0.07	3.52	0.66	
4/30/2019	8.80	1.00	8.20	0.90	-	4.92	0.90	0.07	3.45	0.61	

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

		TD	T.O.N.		Hardness, mg/L				Methane (Water), 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
4/2/2019			490	500-750	2	3						0.27
4/9/2019	820	280	490	500-750	1	3	360	110	220	180-250	2.3	0.26
4/17/2019			490	500-750	2	3						0.24
4/23/2019			470	500-750	2	3						0.24
4/30/2019			480	500-750	2	3						0.29
Average			484	500-750	1.8	3						0.26

Notes:

Monthly- Orange; Weekly- Yellow

ppm – parts per million

mg/L - milligram per liter

T.O.N. - Threshold Odor Number

TDS - Total Dissolved Solids

Hardness - As total CaCO3

Methane (Water) - Methane dissolved in water

Table 5. Monitoring Requirements and Frequencies for Total Phosphate and Orthophosphate.

Sample Location	Date, week of	Total Phosphate, mg/L	Orthophosphate, mg/L
1948 W 252 nd St		0.48	0.57
24632 S Moon Ave		0.47	0.55
2450 W 247 th St	4/9/19	0.46	0.59
2052 Dawn St		0.51	0.57
CWPF SP5		0.49	ANTENNA SE SE SE SE SE

Notes:

Monthly- <u>Orange;</u> mg/L – milligram per liter

Monthly CWPF Monitoring Report – <u>APRIL 2019</u> Cypress Water Production Facility City of Lomita; System No. 1910073

				The same of the sa				Control of the Contro
Sample Locations	Frequency	MCL/	4/2/19	4/9/19	4/17/19	4/23/19	4/30/19	Comments
and Parameters		Goal	1 st Wk	2 nd Wk	3 rd Wk	4 th Wk	5 th Wk	and/or
			or Mo					Other Info.
			or Mo.					
			Result					
0D4 AL II II	W II E D	W. 1	(date)					
SP1 Also called	A STREET STREET, STREET STREET, STREET	STATE OF THE PARTY						
TDS, ppm	Monthly	See SP5	820 4/9/19	Operations	Data/Inforn	nation:		*Chlorine injected after SP1, before entering
Hardness	Monthly	See SP5	360	CWPF opera	tion days			the greensand filter.
0111		See SP5	4/9/19	On Well 5:	Daily average t	low – 372 gpn	n: total prod	
CH4, ppm	Monthly	See SPS	2.3 4/9/19	- 42.88 AF		100	765	
Iron, ppb	Monthly	See SP3	170	Combined V	/ell 5/MWD da	ata: Average V 60% MWD; tot	Vell 5: MWD	
	Notables and Artists 2		4/9/19	108.26 AF	40 /0 VVELL. (JO 76 IVIVVD, LUL	ai piou	
Manganese, ppb	Monthly	See SP3	140 4/9/19	011 : 5	11/A+			
Color, units	Monthly	See SP3	10	Chlorine Do	sage: N/A*			
	()		4/9/19					
Total Coliform, P or A	Monthly	Α	Α					
SP2 Also called	Eiltor Efflu	ont or Si	4/9/19					
Total Coliform, P or A	Monthly							*Ammonia added after
HPC,MPN/100 ml	Monthly	A 500	A ND	Ammonia Γ	osage: N/A*			filter effluent
Free Cl Res, ppm	Continuous				220			-
				ge: 8.60 - 9			0:1-114	
SP3 Also called							_	
Iron, ppb	Weekly	ND	ND	ND	ND	ND	ND	1
Manganese, ppb	Weekly	50 15	ND 5	ND 7.5	ND	ND 7.5	ND	1
Color Free and Total Cl Res,	Weekly Continuous			7.5 2; Range: 0.	5	7.5	5	-
				range U				ł .
								l
		Total CI: A	Average: 7.2	3; Range: 6	.20 - 8.20			
ppm		Total CI: A Ammonia	Average: <mark>7.2</mark> : Average: <mark>0</mark>	<mark>3</mark> ; Range: <mark>6</mark> . <mark>81</mark> ; Range:	0.20 - 8.20 0.73 - 0.90	Blend Po	oint/Phos	phate Injection.
SP4 Also called		Total CI: A Ammonia Influent (Average: 7.2 : Average: 0 or the Site	3; Range: 6 .81; Range: • Well 5/M	0.20 - 8.20 0.73 - 0.90	Blend Po	oint/Phosp	phate Injection.
ppm		Total CI: A Ammonia Influent of Phosphat	Average: 7.2 : Average: 0 or the Site e Dosage: 0	3; Range: 6 .81; Range: • Well 5/M	.20 – 8.20 0.73 – 0.90 WD Water	Blend Po	oint/Phosp	phate Injection. CI/NH3 Ratio:
SP4 Also called Phosphate Injection	Reservoir	Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7	3; Range: 6 .81; Range: • Well 5/M 0.57 mg/L 02; Range: 0 5; Range: 4.	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92	Blend Po	oint/Phosp	
SP4 Also called Phosphate Injection Free and Total CI Res, ppm	Reservoir Continuous	Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A Ammonia	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0	3; Range: 6.81; Range: e Well 5/M* 0.57 mg/L 2; Range: 0.5; Range: 4.71; Range:	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76			CI/NH3 Ratio: 6.73
SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called	Reservoir Continuous Reservoir	Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A Ammonia	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0	3; Range: 6.81; Range: e Well 5/M* 0.57 mg/L 2; Range: 0.5; Range: 4.71; Range:	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76			CI/NH3 Ratio: 6.73
SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called	Reservoir Continuous	Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A Ammonia	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0	3; Range: 6.81; Range: e Well 5/M* 0.57 mg/L 2; Range: 0.5; Range: 4.71; Range:	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76			CI/NH3 Ratio: 6.73
Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm	Reservoir Continuous Reservoir	Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A Ammonia Effluent SI Goal: 500-750ppm SI Goal:	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0 or Site#5.	3; Range: 6 .81; Range: 2 Well 5/M 0.57 mg/L 2; Range: 0 5; Range: 4 .71; Range: SP5 disc	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in	to Zone 1	of the dis	CI/NH3 Ratio: 6.73
SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness	Reservoir Continuous Reservoir Weekly	Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0 or Site#5.	3; Range: 6.81; Range: 6.81; Range: 6.81; Range: 6.87 mg/L 2; Range: 0.5; Range: 4.71; Range: SP5 disc	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in	to Zone 1 470	of the dis	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal:
SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm	Reservoir Continuous Reservoir Weekly Monthly Weekly	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490	3; Range: 6.81; Range: 6 Well 5/M* 0.57 mg/L 2; Range: 0.5; Range: 4.71; Range: 490	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490	to Zone 1 470 0.24	of the dis 480 0.29	CI/NH3 Ratio: 6.73 Stribution system
SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490	3; Range: 6 .81; Range: .81; Range: .82; Well 5/M 0.57 mg/L 2; Range: 0. 5; Range: 471; Range: .71; Range: .720 .730 .730 .730 .730 .730 .730 .730 .73	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24	to Zone 1 470	of the dis	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7%
Pppm 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,	Reservoir Continuous Reservoir Weekly Monthly Weekly	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free Cl: A	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490 0.27 2 Average: 0.0	3; Range: 6 81; Range: 6 81; Range: 6 9 Well 5/M 0.57 mg/L 2; Range: 0.5; Range: 4 71; Range: 490 220 0.26 1 9; Range: 0.	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24 2	to Zone 1 470 0.24	of the dis 480 0.29	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7% CI/NH3 Ratio:
SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: A Total Cl: A	Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490 0.27 2 Average: 0.0 Average: 3.4	3; Range: 6 .81; Range: .81; Range: .82; Well 5/M 0.57 mg/L 2; Range: 0. 5; Range: 471; Range: .71; Range: .720 .730 .730 .730 .730 .730 .730 .730 .73	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24 2 06 – 0.13 32 – 3.52	to Zone 1 470 0.24	of the dis 480 0.29	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7%
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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 Cypress Re	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: A Ammonia eservoir. Goal -	Average: 7.2 : Average: 0.0 or the Site e Dosage: 0.5 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490 0.27 2 Average: 3.4 : Average: 0.0 CH4 Average: 0	3; Range: 6 .81; Range: 2 Well 5/M 0.57 mg/L 2; Range: 0.5; Range: 4 .71; Range: 490 220 0.26 1 9; Range: 0.1; Range: 0.1; Range: 0.26 1; Range: 0.1; Range: 0.1	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24 2 06 – 0.13 32 – 3.52 0.56 – 0.66	to Zone 1 470 0.24	of the dis 480 0.29	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7% CI/NH3 Ratio:
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)	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: A Total Cl: A Ammonia eservoir. Goal - LEL	Average: 7.2 : Average: 0.0 or the Site e Dosage: 0.5 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	3; Range: 6 .81; Range: 6 .81; Range: 6 .81; Range: 6 .81; Range: 6 .57 mg/L .2; Range: 0 .5; Range: 4 .71; Range: 4 .71; Range: 4 .720 .736 .736 .736 .737 .737 .738 .738 .738 .738 .738 .738	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24 2 06 – 0.13 32 – 3.52 0.56 – 0.66	to Zone 1 470 0.24 2	of the dis 480 0.29 2	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7% CI/NH3 Ratio: 5.55
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 Cypress Re Daily (from log)	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: A Total Cl: A Ammonia eservoir. Goal - LEL	Average: 7.2 : Average: 0.0 or the Site e Dosage: 0.5 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	3; Range: 6 .81; Range: 6 .81; Range: 6 .81; Range: 6 .81; Range: 6 .57 mg/L .2; Range: 0 .5; Range: 4 .71; Range: 4 .71; Range: 4 .720 .736 .736 .736 .737 .737 .738 .738 .738 .738 .738 .738	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24 2 06 – 0.13 32 – 3.52 0.56 – 0.66	to Zone 1 470 0.24 2	of the dis 480 0.29 2	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7% CI/NH3 Ratio: 5.55
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 Source	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log)	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: A Total Cl: A Ammonia eservoir. Goal - LEL	Average: 7.2 : Average: 0.0 or the Site e Dosage: 0.5 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	3; Range: 6 .81; Range: 6 .81; Range: 6 .81; Range: 6 .81; Range: 6 .57 mg/L .2; Range: 0 .5; Range: 4 .71; Range: 4 .71; Range: 4 .720 .736 .736 .736 .737 .737 .738 .738 .738 .738 .738 .738	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24 2 06 – 0.13 32 – 3.52 0.56 – 0.66	to Zone 1 470 0.24 2	of the dis 480 0.29 2	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7% CI/NH3 Ratio: 5.55
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) Ce Feeding	Total Cl: A Ammonia Influent of Phosphat Free Cl: A Total Cl: A Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: A Ammonia Effect Cl: A Ammonia Eservoir. Goal - LEL CWPF. A	Average: 7.2 : Average: 0.0 or the Site e Dosage: 0.5 Average: 0.5 Average: 4.7 : Average: 0 or Site#5. 490 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	3; Range: 6 .81; Range: 0 .57 mg/L .2; Range: 0 .5; Range: 4 .71; Range: 4 .720 .720 .720 .720 .720 .720 .720 .720	.20 – 8.20 0.73 – 0.90 WD Water 44 – 0.68 52 – 4.92 0.62 – 0.76 harges in 490 0.24 2 06 – 0.13 32 – 3.52 0.56 – 0.66	to Zone 1 470 0.24 2	of the dis 480 0.29 2	CI/NH3 Ratio: 6.73 Stribution system % CH4 Removal: 88.7% CI/NH3 Ratio: 5.55

APPENDIX A

LABORATORY RESULTS



15 April 2019 Clinical Lab No.: 19D0335

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

Project Name: Standard Analysis

Sub Project: CWPF 1st Week of April, 2019

Enclosed are the results of the analyses for samples received at the laboratory on 04/02/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:19D033524373 Walnut AvenueSub Project:CWPF 1st Week of April, 2019Received:04/02/19 16:25Lomita CA, 91717Project Manager:Mark AndersenReported:04/15/19

Reservoir Influent Site #3		19D0335-0	01 (Water)		Sample Da	te: 04/02/19	9 6:10 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	8.8		N/A	mg/L	04/02/19	04/02/19	1914142	
pH (Field)	Field	7.78		N/A	pH Units	04/02/19	04/02/19	1914142	
Temperature (Field)	Field	22.8		N/A	°C	04/02/19	04/02/19	1914142	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	04/02/19	04/02/19	1914123	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/05/19	04/05/19	1914182	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/05/19	04/05/19	1914182	
Reservoir Effluent Site #5		19D0335-0	02 (Water)		Sample Da	te: 04/02/19	9 9:30 Sa	mpler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.619		N/A	mg/L	04/02/19	04/02/19	1914142	
pH (Field)	Field	8.17		N/A	pH Units	04/02/19	04/02/19	1914142	
Temperature (Field)	Field	19.4		N/A	°C	04/02/19	04/02/19	1914142	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	04/02/19	04/02/19	1914123	
Odor Threshold	EPA 140.1-M	2	1	3	TON	04/02/19	04/02/19	1914123	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	490	5.0	1000	mg/L	04/04/19	04/08/19	1914186	
ND Analyte NOT DETECTED at or	above the reporting limit								



April 11, 2019



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: 19D0335 Lab Number:

K040401-01

Enclosed are results for sample(s) received 4/04/19 by Air Technology Laboratories. Samples were received intact and chilled to 1° C. 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 TNI 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 19D0335

K040401

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 Project Manager: Stu Styles	Fax:		
Troject Wallager. Stu Styles		•	W
Please email results to Project Manager: Stu Styles			
[] glaubig@clinical-lab.com [V] styles@clinica			
California EDT transfer those samples with Water Trax Upload Client:	PS codes provided [] Yes [V] No [] Yes [V] No		.4
Turn Around Time [] 10 Days [\] 5 Days	[] Other Days		
Subcontract Comments:	The state of the s		
Analysis		Comments	
лиатуото			φ.
Sample ID: Reservoir Effluent Site #5 / 19D0335-02	Sampled: 04/02/19 09:30 PS Code:		
81	Water	(ID:	
V		Report in mg/L	
Methane RSK175		Report in mg/L	
Containers Supplied: 40ml Amber Vial (B) 40ml A	mber Vial (C)		
40III Allibei Viai (B) 40III A	moer viai (C)		W.
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130 2Wy 04/04/19	07:15 hry Martin	4/4/19	8:30
Released By Date / Time	Received By	Date / Time	
1/10as Mirtura 4/4/19	Will July	414119	M
Released By / Date / Time	Received By	Date / Time	

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

19D0335

Date Received:

04/04/19

Matrix:

Water

Reporting Units: mg/L

		RS	K175					
Lab No.: K040401-01								
	Reservoir							5
Client Sample I.D.:		Site #5 /						
	19D033							
Date/Time Sampled:	4/2/19	9:30						
Date/Time Analyzed:	4/8/19 9:47							
QC Batch No.:	1904080	GC8A1						
Analyst Initials:	CM/	AS						
Dilution Factor:	1.0)		×				
	Result	RL						
ANALYTE	mg/L	mg/L						
Methane	0.27	0.0010						
ž.								

NID	- Not	Detected	(halarr	DIA
ND	1001	Detected	(below	KL)

RL = Reporting Limit

m .					-
Revi	iewed	/A	pp	roved	Bv:

Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190408GC8A1

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LO	CSD				
Date/Time Analyzed:	4/8/19 9	0:20		4/8/1	9 8:51	4/8/1	9 9:06				
Analyst Initials:	CM/A	S		CM	I/AS	CN	1/AS				
Dilution Factor:	1.0			1	.0	1	.0				9
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.654	0.681	104	0.677	103	0.6	70	130	30
×											

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _______Mark Johnson

Operations Manager

Date 4/11/19

The cover letter is an integral part of this analytical report

190335 Chain of Custody

4/6/0

Client		City of Lomita	Sys	System Nu	umber		Æ,		Analysis Requested	sis R	anba	sted					
Address		24373 Walnut Avenue			104	1010072											
		Lomita, CA 91717			0	200					M						
Phone #	9.5	(310)903-2243		a	etinetion	Destination Laboratory	Ŋ				eth			·			
Fax#				1	(] Clinical	[X] Clinical Laboratory	'n			Tota	ane						
Project		Standard Analysis			WQCB C	RWQCB Compliance						0					
Sub Project		CWPF 1st week of April, 2019 Compliance			, x	уөѕ			langa	olor olved	iter)	dor					
		Sampling		€\$:		ELAP#				Sali	(R						
Comments		For TC/EC/BACT see weekly Distro CoC			10	4088				ida	SK1						
Sampled by	Ý	P.M.			2	9					75)						
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Н	Temp	Total Chlorine							Comments / P.S. Codes	S. Codes	
4/2/2019	0610	O(\$10 Reservoir Influent Site #3	ΝŒ	% 1	N/A	7.78	22.8	9. 8.	×	X							1
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4/2/2019	なる	O 7 30 Reservoir Effluent Site #5	Δ	<u>*</u>	۷ ۷	8.1	77.7	5.619		X		×	-				,
4/2/2019	0930	の子ろの Reservoir Effluent Site #5	λG	1W	7	6.17	19.4	3.6/2			X				A. C.		
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Preservative	s: (1) Na	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI	Matrix: D	W-Drinkin	g Water,	WW-Wast	• Water, S	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	ater, G	W. Gro	A pund	Vater, A	-Air		Type- 1-F	Type- 1-Routine, 2-Repeat, 3-	
(5) H2S	O4 (6) N	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:						Repla	Replacement, 4-Special W-Well D- Dist	1, 4-Sp	ecial 1	V-Well	D. Dis				_
Relin	quished	Relinquished By (Sign) Print Name / Company				Date / Time	ime			$\stackrel{\searrow}{\leftarrow}$					Print Name / Company	ompany	
Potrace.	The miles	Patrick McCue / City of Lomita		4/2/2019	117						Si	7	7	~	My Carry /	48	$\overline{}$
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Comments:		•			Î.	ımples r	eceived:	Samples received: (X) On ice	_		act	· ·	Justoc	Z SEBIS	Wintact () Custody stals Temp 5 %		
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22 April 2019 Clinical Lab No.: 19D0893

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

Project Name: Standard Analysis

Sub Project: CWPF Monthly Compliance Samples, 2nd Wk of April

Enclosed are the results of the analyses for samples received at the laboratory on 04/09/19 . 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:19D089324373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Apr Received:04/09/19 18:22

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 04/22/19

Raw Water Site #1		19D0893-0	01 (Water)		Sample Da	te: 04/09/19	9:40 S	ampler: P	atrick McCu
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0		N/A	mg/L	04/09/19	04/09/19	1915093	
pH (Field)	Field	7.79		N/A	pH Units	04/09/19	04/09/19	1915093	
Temperature (Field)	Field	23.6		N/A	°C	04/09/19	04/09/19	1915093	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	04/09/19	04/10/19	1915089	
E. Coli	SM 9223	A		N/A	P/A	04/09/19	04/10/19	1915089	
Plate Count	SM9215B	29	1	500	CFU/ml	04/09/19	04/11/19	1915130	HT-08
General Physical Analyses									
Apparent Color	SM 2120BM	10.0	3.0	15	Color Units	04/09/19	04/09/19	1915091	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	360	6.6	N/A	mg/L	04/15/19	04/15/19	[CALC]	
Total Filterable Residue/TDS	SM 2540C	820	5.0	1000	mg/L	04/12/19	04/15/19	1915161	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	97	1.0	N/A	mg/L	04/15/19	04/15/19	1916014	
Iron (Fe)	EPA 200.7	170	100	300	ug/L	04/16/19	04/16/19	1916052	
Magnesium (Mg)	EPA 200.7	30	1.0	N/A	mg/L	04/15/19	04/15/19	1916014	
Manganese (Mn)	EPA 200.7	140	20	50	ug/L	04/16/19	04/16/19	1916052	
Filter Effluent (Free Chlorine) Site #2		19D0893-0	02 (Water)		Sample Da	te: 04/09/19	9:50 S	ampler: P	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	9.7		N/A	mg/L	04/09/19	04/09/19	1915093	
pH (Field)	Field	7.8		N/A	pH Units	04/09/19	04/09/19	1915093	
Temperature (Field)	Field	23.7		N/A	°C	04/09/19	04/09/19	1915093	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	04/09/19	04/10/19	1915089	
E. Coli	SM 9223	A		N/A	P/A	04/09/19	04/10/19	1915089	
	SM9215B	ND							HT-08



Lomita, City of Project: Standard Analysis Work Order: 19D0893 Sub Project: CWPF Monthly Compliance Samples, 2nd Wk of AprReceived: 04/09/19 18:22 24373 Walnut Avenue Lomita CA, 91717

Project Manager: Mark Andersen

Filter Effluent (Total Chlorine) Site #3		19D0893-0	03 (Water)		Sample Da	te: 04/09/19	9:53 Sa	mpler: P	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	7.7		N/A	mg/L	04/09/19	04/09/19	1915093	
pH (Field)	Field	7.79		N/A	pH Units	04/09/19	04/09/19	1915093	
Temperature (Field)	Field	23.7		N/A	°C	04/09/19	04/09/19	1915093	
General Physical Analyses									
Apparent Color	SM 2120BM	7.5	3.0	15	Color Units	04/09/19	04/09/19	1915091	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/16/19	04/16/19	1916052	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/16/19	04/16/19	1916052	
Zone #2 Site #6		19D0893-0	04 (Water)		Sample Da	te: 04/09/19	9:55 Sa	mpler: P	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.34		N/A	mg/L	04/09/19	04/09/19	1915093	
pH (Field)	Field	8.73		N/A	pH Units	04/09/19	04/09/19	1915093	
Temperature (Field)	Field	19.7		N/A	°C	04/09/19	04/09/19	1915093	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	110	6.6	N/A	mg/L	04/15/19	04/15/19	[CALC]	
Total Filterable Residue/TDS	SM 2540C	280	5.0	1000	mg/L	04/12/19	04/15/19	1915161	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	26	1.0	N/A	mg/L	04/15/19	04/15/19	1916014	
Magnesium (Mg)	EPA 200.7	11	1.0	N/A	mg/L	04/15/19	04/15/19	1916014	



Lomita, City ofProject:Standard AnalysisWork Order:19D089324373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Apr Received:04/09/19 18:22Lomita CA, 91717Project Manager:Mark AndersenReported:04/22/19

Reservoir Effluent Site #5		19D0893-0	05 (Water)		Sample Da	ite: 04/09/19	9 10:30 Sa	mpler: Pa	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.68		N/A	mg/L	04/09/19	04/09/19	1915093	
pH (Field)	Field	8.18		N/A	pH Units	04/09/19	04/09/19	1915093	
Temperature (Field)	Field	19.7		N/A	°C	04/09/19	04/09/19	1915093	
General Physical Analyses									
Odor Threshold	EPA 140.1-M	1	1	3	TON	04/09/19	04/09/19	1915091	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	220	6.6	N/A	mg/L	04/15/19	04/15/19	[CALC]	
Total Filterable Residue/TDS	SM 2540C	490	5.0	1000	mg/L	04/12/19	04/15/19	1915161	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	56	1.0	N/A	mg/L	04/15/19	04/15/19	1916014	
Magnesium (Mg)	EPA 200.7	19	1.0	N/A	mg/L	04/15/19	04/15/19	1916014	

HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

ND Analyte NOT DETECTED at or above the reporting limit



April 18, 2019

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: 19D0893

Lab Number:

K041103-01/02

Enclosed are results for sample(s) received 4/11/19 by Air Technology Laboratories. Samples were received intact and chilled to 4° C. 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 TNI 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

2 of 4 K041103

Clinical Laboratory of San Bernardino 19D0893

K041103-01/02

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	sk come [] harmatain@alinical lab com	9.2
	b.com [] bernstein@clinical-lab.com	
California EDT transfer those samples with PS Water Trax Upload Client:	codes provided [] Yes [] No [] Yes [] No []	_{gr} B
Turn Around Time [] 10 Days [1 5 Days Subcontract Comments:	[] Other Days	
Analysis	Comments	
Sample ID: Raw Water Site #1 / 19D0893-01	Sampled: 04/09/19 09:40 PS Code: Water WTX ID:	s es es es es deservir e
Note - DOV175	Report in mg/L	· · · · · · · · · · · · · · · · · · ·
Methane RSK175	Kopott in ing E	
Containers Supplied:	han Vial all 2 w/HCl (D)	
	ber Vial pH<2 w/HCl (B)	
Sample ID: Reservoir Effluent Site #5 / 19D0893-05	Sampled: 04/09/19 10:30 PS Code: Water WTX ID:	
51		E THE OWN TEN S SWINS B MANAGE.
Methane RSK175	Report in mg/L	
Containers Supplied:	4	10
	ber Vial pH<2 w/HCl (C)	
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Released By Date / Time	Received By /Date / Tin	me
m les 4/11/19 1	0:30	9 1880
Released By Date / Time	Received By Date / Tin	me

Client:

Clinical Labs

Attn:

Stu Styles

Project Name:

NA

Project No.:

19D0893

Date Received:

04/11/19 Water

Matrix:

Reporting Units: mg/L

RSK175

Lab No.:	K0411	03-01	K0411	03-02		
Client Sample I.D.:	Raw Wa #1/19D0		Reservoir Site #5/19 05	D0893-		
Date/Time Sampled:	4/9/19	9:40	4/9/19	10:30		
Date/Time Analyzed:	4/16/19	12:56	4/16/19	13:09		©.
QC Batch No.:	1904160	190416GC8A1		GC8A1		
Analyst Initials:	CM/	AS	CM/	AS		
Dilution Factor:	1.0)	1.0)		
ANALYTE	Result mg/L	RL mg/L	Result mg/L	RL mg/L		
Methane	2.3	0.0010	0.26	0.0010		

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

RL = Reporting Limit

Reviewed/Approved B	y: _
---------------------	------

Mark Johnson

Operations Manager

Date 4/18/19

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190416GC8A1

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Methane	ND	0.0010	0.654	0.722	110	0.711	109	1.5	70	130	30
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Dilution Factor:	1.0			1	.0	1	0.0				-
Analyst Initials:	CM/A	S		CN	I/AS	CM	I/AS				
Date/Time Analyzed:	4/16/19 1	2:03		4/16/1	9 12:16	4/16/1	9 10:01				
Lab No.:	METHOD	BLANK		L	CS	LO	CSD				

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

Date 4/18/19

The cover letter is an integral part of this analytical report

Chain of Custody

21/2/12

A-11 A-12																		Repeat,	vr.
																		Type- 1-Routine, 2-Repeat,	Print Name / Company
Analysis Requested	7			olif	e (V H:	ard	or ate er) ness	(RSK) S oli P-A		PPC	×	X X X	×	×	×	x x	×	Storm Water, GW. Ground Water, A-Air 3-Replacement, 4-Special W-Well D-Dist.	Received By (Sign)
System Number Anal	4040072	0 /00161	Destination Laboratory		Di		ved	Solid		. Type Preserv Temp. pH Total	1W N/A 23.6 7.79 8. X	IN 1.2, 236 7.79 B	L, P 08. F 45.5 7.1 WI	1 L L S3 L S L M	10 NA 19.7° 8.73 2.34 X	10 N/A 19,7 \$1,8 3 ,68 x	10 27 19 7 8 18 3 68	r, SW	Date / Three
City of Lomita S	24373 Walnut Avenue	Lomita, CA 91717	(310)903-2243		Standard Analysis	CWPF Monthly Compliance Samples;	2nd week of April, 2019		Patrick McCue	Sample Idenitification Matrix	Raw Water Site #1 GW	Raw Water Site #1 GW	Filter Effluent (Free Chlorine) Site#2 DW	Filter Effluent (Total Chlorine) Site#3 DW	Zone #2 Site #6 DW	Reservoir Effluent Site #5 DW	Reservoir Effluent Site #5 DW		Voca (6) Cure.
Client	Address		Phone #	Fax #	Project		Sub Project	Comments	Sampled by	Date Time	4/9/2019 6940	0 h63 6102/6/4	0560 6102/6/4	4/9/2019 105/6/3	5560 6102/6/4	4/9/2019 [333	4/9/2019 0.30	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI	Polinanishof Rv (Clan)

"Your Water and Wastewater Analysis Solution"

Samples received: (A On ice (AIntact () Custody seals Temp 5.4

| | Cliem | | Other

| | Golden State | | UPS

| | Fed X

Comments:

Shipped Via

240

Patrick McCue/City of Lomita 4/9/2019

555



30 April 2019 Clinical Lab No.: 19D1613

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

Project Name: Standard Analysis

Sub Project: CWPF 3rd Week of March, 2019

Enclosed are the results of the analyses for samples received at the laboratory on 04/17/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:19D161324373 Walnut AvenueSub Project:CWPF 3rd Week of March, 2019Received:04/17/19 14:45Lomita CA, 91717Project Manager:Mark AndersenReported:04/30/19

Reservoir Influent Site #3		19D1613-	01 (Water)		Sample Da	te: 04/17/19	9 9:20 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	7.2		N/A	mg/L	04/17/19	04/17/19	1916191	
pH (Field)	Field	7.85		N/A	pH Units	04/17/19	04/17/19	1916191	
Temperature (Field)	Field	22		N/A	°C	04/17/19	04/17/19	1916191	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	04/17/19	04/17/19	1916147	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/26/19	04/26/19	1917163	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/26/19	04/26/19	1917163	
Reservoir Effluent Site #5		19D1613-	02 (Water)		Sample Da	te: 04/17/19	9 9:25 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.29		N/A	mg/L	04/17/19	04/17/19	1916191	
pH (Field)	Field	8.19		N/A	pH Units	04/17/19	04/17/19	1916191	
Temperature (Field)	Field	19.5		N/A	°C	04/17/19	04/17/19	1916191	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	04/17/19	04/17/19	1916147	
Odor Threshold	EPA 140.1-M	2	1	3	TON	04/17/19	04/17/19	1916147	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	490	5.0	1000	mg/L	04/19/19	04/22/19	1916167	



April 26, 2019

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



TX Cert T104704450-14-6 EPA Methods T014A, T015 UT Cert CA0133332015-3 EPA Methods T03, T014A, T015, RSK-175

LABORATORY TEST RESULTS

Project Reference: 19D1613 Lab Number: K041901-01

Enclosed are results for sample(s) received 4/19/19 by Air Technology Laboratories. Samples were received intact and chilled to 4° C. 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 TNI 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

19D1613

	2 of 4
1/21/0	K041901
K-04-19	01-0
1 1 1	

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 [V] styles@clinical-lab	.com [] bernstein@clinical-lab.com	
California EDT transfer those samples with PS of Water Trax Upload Client:	codes provided [] Yes [] No [] No	*
Turn Around Time [] 10 Days [$\sqrt{5}$ Days [Subcontract Comments:] Other Days	
Analysis	Comments	S
Sample ID: Reservoir Effluent Site #5 / 19D1613-02	Sampled: 04/17/19 09:25 PS Code: Water WTX ID:	ده پیشی به د د مدد سیشی
Methane RSK175 Containers Supplied: Oml Amber Vial (B) 40ml Amber	Report in r	ng/L
		40
Released By Date / Time Company Company		19/19 845 e/Time

Client:

Clinical Labs

Attn:

Stu Styles

Project Name:

NA

Project No.:

19D1613

Date Received:

04/19/19

Matrix:

Water

Reporting Units: mg/L

R	SK175		
			Ξ
			_

Lab No.:	K0419	01-01			×
	Reservoir	Effluent			19
Client Sample I.D.:	Site #5/19	9D1613-			
	02	2			
Date/Time Sampled:	4/17/19 9:25				
Date/Time Analyzed:	4/23/19	9:39			
QC Batch No.:	190422GC8A2				
Analyst Initials:	CM/	'AS			
Dilution Factor:	1.0	0			
	Result	RL			
ANALYTE	mg/L	mg/L			
Methane	0.24	0.0010	-		

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson **Operations Manager** Date 4-26-19

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190422GC8A2

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LO	CSD				
Date/Time Analyzed:	4/22/19 1	15:00		4/22/1	9 15:14	4/22/1	9 15:56	1			
Analyst Initials:	CM/A	S		CN	I/AS	CN	I/AS	1			
Dilution Factor:	1.0			1.0		1	.0				9
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.654	0.687	105	0.729	111	5.9	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

Date 4-26-19

The cover letter is an integral part of this analytical report

[13] (19]

Shipped Via	comments		Total 9	Relinquish	(5) H2SO4 (6	Preservatives: (1)								4/17/2019 09-	4/17/2019 G925		4/17/2019 🔘 9	Date Time	Sampled by	Comments	and Floject		Project	Fax#	Phone #		Address	Client
			MCGO P.	Relinquished By (Sign)) Na2SO3 (7) Cold (8) Other	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3								$\Im 925$ Reservoir Effluent Site #5	25 Reservoir Effluent Site #5		0 920 Reservoir Influent Site #3			For TC/EC/BACT s	S	CWPF 3rd week o	Stana	A240	(31)	Lomi	24373 \	City
Fed X Golden State		I hacello/c	Patrick McCue / City of Lomita	Print Name / Company		(4) NH4CI								ite #5	ite #5		ite #3	Sample Idenitification	P.M.	For TC/EC/BACT see weekly Distro CoC	Sampling	CWPF 3rd week of April, 2019 Compliance	Standard Analysis		(310)903-2243	Lomita, CA 91717	24373 Walnut Avenue	City of Lomita
UPS		\vdash				Matrix: D								DW	DW		DW	Matrix		1	134							Sy
Client		4.17.19	4/17/2019			Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air								I W	1W		1W	Туре					R	×	De			System Number
1 Other	Sar]	//			y Water, W								2	N/A		N/A	Preserv		1088	ELAP#	yes	RWQCB Compliance	[X] Clinical Laboratory	Destination Laboratory		1910073	nber
her	Samples received?	LUV	00:1	Date / Time		W-Waste W			+						8.19		7.8512	p.H.		õ	#		npliance	aboratory	aboratory		073	ing kina.
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06 May 2019 Clinical Lab No.: 19D1918

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

Project Name: Standard Analysis

Sub Project: CWPF 4th Week of April, 2019

Enclosed are the results of the analyses for samples received at the laboratory on 04/23/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:19D191824373 Walnut AvenueSub Project:CWPF 4th Week of April, 2019Received:04/23/19 17:00Lomita CA, 91717Project Manager:Mark AndersenReported:05/06/19

Reservoir Influent Site #3		19D1918-0	01 (Water)		Sample Da	te: 04/23/19	9 7:20 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	9.5		N/A	mg/L	04/23/19	04/23/19	1917110	
pH (Field)	Field	7.84		N/A	pH Units	04/23/19	04/23/19	1917110	
Temperature (Field)	Field	22.3		N/A	°C	04/23/19	04/25/19	1917110	
General Physical Analyses									
Apparent Color	SM 2120BM	7.5	3.0	15	Color Units	04/23/19	04/23/19	1917111	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/30/19	04/30/19	1918060	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/30/19	04/30/19	1918060	
Reservoir Effluent Site #5		19D1918-0	02 (Water)		Sample Da	te: 04/23/19	9 9:50 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.37		N/A	mg/L	04/23/19	04/23/19	1917110	
pH (Field)	Field	8.2		N/A	pH Units	04/23/19	04/23/19	1917110	
Temperature (Field)	Field	19.3		N/A	°C	04/23/19	04/25/19	1917110	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	04/23/19	04/23/19	1917111	
Odor Threshold	EPA 140.1-M	2	1	3	TON	04/23/19	04/23/19	1917111	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	470	5.0	1000	mg/L	04/24/19	04/26/19	1917097	
ND Analyte NOT DETECTED at or	above the reporting limit								



May 1, 2019

LA Cert #04140 EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

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

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

TX Cert T104704450-14-6

EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 19D1918 Lab Number:

K042401-01

Enclosed are results for sample(s) received 4/24/19 by Air Technology Laboratories. Samples were received intact and chilled to 5° C. 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 TNI 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

K042401

19D1918

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	
	100
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [/ styles@clinical-lab.com	ab.com [] bernstein@clinical-lab.com
California EDT transfer those samples with P Water Trax Upload Client:	S codes provided [] Yes [] No [] Yes [] No
Turn Around Time [] 10 Days [] 5 Days	[] Other Days
Subcontract Comments:	
	Will have the second of the se
Analysis	Comments
	4 A A
Sample ID: Reservoir Effluent Site #5 / 19D1918-02	Sampled: 04/23/19 09:50 PS Code:
> 1.00	Water WTX ID:
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) 40ml Am	ber Vial (C)
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18/	
Released By Date / Time	Received By Date / Time

Client:

Clinical Labs

Attn:

Stu Styles

Project Name:

NA

Project No.:

19D1918

Date Received:

04/24/19

Matrix:

Water

Reporting Units: mg/L

RSK175	

Lab No.:	K0424	01-01				
	Reservoir	Effluent	10			
Client Sample I.D.:	Site #5/19	D1918-				
	02	2				
Date/Time Sampled:	4/23/19	9:50				
Date/Time Analyzed:	4/29/19	13:36				
QC Batch No.:	1904290	GC8A1				
Analyst Initials:	CM/	AS				
Dilution Factor:	1.0	0				
	Result	RL				
ANALYTE	mg/L	mg/L				
Methane	0.24	0.0010				

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

RL = Reporting Limit

Reviewed/Approved By:

Operations Manager

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190429GC8A1

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LO	CSD				
Date/Time Analyzed:	4/29/19	8:57		4/29/1	9 10:57	4/29/1	9 11:11				
Analyst Initials:	CM/A	\S		CN	I/AS	CN	1/AS				
Dilution Factor:	1.0			1	.0	1	0.1				(4
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.654	0.707	108	0.729	111	3.1	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

19D1918 Chain of Custody 4/5/0

Client		City of Lomita	S	System No	umber	- 3			Analysis Requested	sis Re	dnes	ted				
Address		24373 Walnut Avenue			101	1910073						_				
		Lomita, CA 91717			2	200					M					
Phone #		(310)903-2243		183	Destinatio	Destination Laboratory	ory.				leth					
Fax#					[X] Clinic	[X] Clinical Laboratory	ory			7 0 . 4 .	ane					
Project		Standard Analysis	. Kar.,		RWGCB	RWQCB Compliance	8		l Diss on / M		(Wa	O				
Cuit Droinet	100	CWPF 4th week of April, 2019 Compliance				/es				olor	ter	dor				
		Sampling				ELAP#) (R					
Comments		For TC/EC/BACT see weekly Distro CoC			7	4000					SK					
Sampled by	, and a	P.M.			_	000					175)					
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Hd	Lemp	Chlorine							Comments / P.S. Codes	
4/23/2019	0720	4/23/2019 6720 Reservoir Influent Site #3	DW	11W	A/N	7.84	22.3	1	×	×		+	-			
						1						H	H			
4/23/2019	0360	つ95○ Reservoir Effluent Site #5	DW	1W	N/A	ر ک	19.3	13.37	X	X		X				
4/23/2019	0150	〇介ぐこ Reservoir Effluent Site #5	DW	WI	7	2.8	19.3	3.37			×					
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Preservatives	S: (1) Na	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI	Matrix:	Matrix: DW-Drinki	ng Water,	WW-Was	te Water, S	ing Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	ater, G	25	und M	/ater, A	orm Water, GW- Ground Water, A-Air		Type- 1-Routine, 2-Repeat, 3-	Repeat, 3-
(c)	(6) N	old (8) Other:						Vebia	Centre	4-306	Ciai	IIA.	200			
Relin	quished	Relinquished By (Sign) Print Name / Company		27		Date / Time	l'ime		0	$\langle \cdot \rangle$					Print Name / Company	
Patrine	1 3	Truck McCue / City of Lomita	omita	4/23/2019	8) 6	22			21/4	Hon	2	3	1111		(X Lapanco) CLE	~
2	LOVOL	<u>ب</u>		2	12	00				7	{	7		3	Webecca M	ZUM
Comments:	\ is	, v			. •	amples	received	Samples received: (XOn ice (VIntact ((}) eo	Z Int	act (ustod	y seals	Custody seals $Temp 3.4$ () F () C	C
Shipped Via		Fed X Golden State	I I UPS		ient []	Other					Pa	Page_1_	-1-fo			1
7.7	1															



08 May 2019 Clinical Lab No.: 19D2360

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

Project Name: Standard Analysis

Sub Project: CWPF 5th Week of April, 2019

Enclosed are the results of the analyses for samples received at the laboratory on 04/30/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProjectStandard AnalysisWork Order:19D236024373 Walnut AvenueSub Project:CWPF 5th Week of April, 2019Received:04/30/19 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:05/08/19

Reservoir Influent Site #3		19D2360-0	01 (Water)		Sample Da	te: 04/30/1	9 10:15 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	9		N/A	mg/L	04/30/19	04/30/19	1918105	
pH (Field)	Field	7.89		N/A	pH Units	04/30/19	04/30/19	1918105	
Temperature (Field)	Field	22.6		N/A	°C	04/30/19	04/30/19	1918105	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	04/30/19	04/30/19	1918138	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/02/19	05/02/19	1918145	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/02/19	05/02/19	1918145	
Reservoir Effluent Site #5		19D2360-0	02 (Water)		Sample Da	te: 04/30/1	9 10:20 Sa	mpler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.51		N/A	mg/L	04/30/19	04/30/19	1918105	
pH (Field)	Field	8.24		N/A	pH Units	04/30/19	04/30/19	1918105	
Temperature (Field)	Field	19.8		N/A	°C	04/30/19	04/30/19	1918105	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	04/30/19	04/30/19	1918138	
Odor Threshold	EPA 140.1-M	2	1	3	TON	04/30/19	04/30/19	1918138	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	480	5.0	1000	mg/L	05/01/19	05/03/19	1918118	



May 8, 2019

EPA Methods TO3, TO14A, TO15, 25C/3C, **RSK-175** 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: 19D2360 Lab Number:

K050101-01

Enclosed are results for sample(s) received 5/01/19 by Air Technology Laboratories. Samples were received intact and chilled to 6° C. 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 TNI 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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 19D2360

K050101
Page 2 of 4

SENDING LABORATORY:		RECEIVING LABOR	ATORY:	
Clinical Laboratory of San Berr 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	ardino	Air Technology Labs 18501 East Gale Aver City of Industry, CA 9 Phone :(626) 964-403 Fax:	nue Suite 130 91748	* (1)
Please email results to Project M [] glaubig@clinical-lab.com California EDT transfer	Aanager: Stu Styles [v] styles@clinical-lab.com [those samples with PS codes prov			~ 3
Water Trax Upload Clie		[] Yes [γ]/No		
Turn Around Time [] 10 Subcontract Comments:	Days [5 Days [] Other	Days		
Analysis			Comments	6 4
Alialysis			Comments	r ,2
Sample ID: Reservoir Effluent S	ite #5 / 19D2360-02 Samp Wate	pled: 04/30/19 10:20 PS (er	Code: WTX ID:	
Methane RSK175		9 101	Report in mg/L	
Containers Supplied:				
Oml Amber Vial (B)	40ml Amber Vial (C)			-
		e gran e za v		
			6	3 K

835

Released By

05/01/19 07:30

Received By

Date / Time

leased By Date / 7

Received By

Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

19D2360

Date Received:

05/01/19

Matrix:

Water

Reporting Units: mg/L

RSK175

Lab No.:	K0501	01-01			
	Reservoir	Effluent			
Client Sample I.D.:	Site #5 / 1	9D2360-			
	02	2			
Date/Time Sampled:	4/30/19	10:20			
Date/Time Analyzed:	5/6/19	15:43			
QC Batch No.:	1905060	GC8A2			
Analyst Initials:	CM/AS				
Dilution Factor:	1.0	0			
	Result	RL			
ANALYTE	mg/L	mg/L			
Methane	0.29	0.0010			

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Operations Manager

QC Batch #: 190506GC8A2

Matrix: Air
Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LO	CSD				
Date/Time Analyzed:	5/6/19 1	3:31		5/6/19	13:45	5/6/19	9 13:59				
Analyst Initials:	CM/A	S		CN	I/AS	CM	I/AS				
Dilution Factor:	1.0			1	.0	1	.0				
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.654	0.708	108	0.733	112	3.5	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson
Operations Manager

Date 5 8 19

Chain of Custody

9/3/4

Client		City of Lowita	Sve	Svetem Number	mher				Angly	Analysis Dograeted	90110	hot	7			
Address		24373 Walnut Avenue								200	200		F			
		Lomita, CA 91717			191	1910073					N					
Phone #		(310)903-2243		٥	estination	Destination Laboratory	, Co				1eth					
Fax#				4	(] Clinica	[X] Clinical Laboratory	ory			Tote	ane					
Project		Standard Analysis			WQCB (RWQCB Compliance					(Wa	0				
Sub Project	÷	CWPF 5th week of April, 2019 Compliance Sampling			7 =	yes ELAP#		00 00 00 00 00 00 00 00 00 00 00 00 00	langanes	olor olved So	ater) (R	dor				
Comments		For TC/EC/BACT see weekly Distro CoC			7	000				lid.	SK					
Sampled by	>	P.M.			=	200					175)					
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Hd	Temp.	Total	Sales sales						Comments	Comments / P.S. Codes
4/30/2019	<u> </u>	Reservoir Influent Site #3	DW	18	N/A	7.89	22.6	9.0	×	×			H			
4/30/2019	1420	1/2 C Beconvoir Effluent Site #5	A	N.	Ø/N	7 7	3	7.5 ~		> >		>	+			
6100/00/1	20 .					- 1			1	+		<u> </u>	+	$\frac{1}{1}$		
4/30/2019	3731	Reservoir Effluent Site #5	<u>A</u>	<u> </u>	7	47.0	<u>2</u>	7.5.5	\perp	-	×		+			
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		de v								\dashv		+	+	1		
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										H		H				
Preservatives	(1) Na.	Preservatives: (1) Na.S.D. (2) HCI (3) HNO3 (4) NH4CI	Matrix: DW-Drinki	/-Drinkin	Water	MW-Wast	Water S	no Water WW:Waste Water SW. Storm Water GW. Ground Water A. Air	Water G		7	(ater A	-Air		Turk	Tune 4 Position 2 Depost 2
(5) H2S(24 (6) Na	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:						Repl	Replacement, 4-Special W-Well D- Dist	4.Spe	cial V	V-Well	D- Dist	٠	26	r rhoume, z-hepeat, 3
Reling	uished 1	Relinquished By (Sign) Print Name / Company				Date / Time	ime		F.	0					Print Nam	Print Name / Company
Potrice.	R 91	Chrich McCue / City of Lomita		4/30/2019	3	7			100	100	1 3			67	(branch	17 8 8 11
4/4	Hadam	La Agama / cess		N	3	وع					la la		100	W.	Lan M	Lander
Comments:	.;				Ö	ımples r	eceived:	Samples received: (XOn ice	_	Int	act () (ustod	(Mintact () Custody seals Temp	[emp 50]	()F ()C
Shipped Via		Fed X Golden State	UPS	Client	-	Other				$ \ $	Pa	Page_1_ of_1	of_1_			



22 April 2019 Clinical Lab No.: 19D0897

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

Project Name: Standard Analysis

Sub Project: Lomita Distribution Ortho, 2nd Week April, 2019

Enclosed are the results of the analyses for samples received at the laboratory on 04/09/19 . 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:19D089724373 Walnut AvenueSub Project:Lomita Distribution Ortho, 2nd Week April, 2019Received:04/09/19 18:22Lomita CA, 91717Project Manager:Mark AndersenReported:04/22/19

1948 252nd St.		19D0897-0	01 (Water)		Sample Da	nte: 04/09/19	8:10	Sampler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.2		N/A	mg/L	04/09/19	04/09/19	1915112	
pH (Field)	Field	8.11		N/A	pH Units	04/09/19	04/09/19	1915112	
Temperature (Field)	Field	19.4		N/A	°C	04/09/19	04/09/19	1915112	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	0.57	0.020	N/A	mg/L	04/10/19	04/10/19	1915070	
Phosphorus (Total as P)	HACH 8190	0.48	0.0067	N/A	mg/L	04/17/19	04/17/19	1916093	
24632 S. Moon		19D0897-0	02 (Water)		Sample Da	ote: 04/09/19	8:35	Sampler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.3		N/A	mg/L	04/09/19	04/09/19	1915112	
pH (Field)	Field	8.05		N/A	pH Units	04/09/19	04/09/19	1915112	
Temperature (Field)	Field	20.2		N/A	°C	04/09/19	04/09/19	1915112	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	0.55	0.020	N/A	mg/L	04/10/19	04/10/19	1915070	
Phosphorus (Total as P)	HACH 8190	0.47	0.0067	N/A	mg/L	04/17/19	04/17/19	1916093	
2450 W. 247th St.		19D0897-0	03 (Water)		Sample Da	ote: 04/09/19	8:45	Sampler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	1.62		N/A	mg/L	04/09/19	04/09/19	1915112	
pH (Field)	Field	8.04		N/A	pH Units	04/09/19	04/09/19	1915112	
Temperature (Field)	Field	20.7		N/A	°C	04/09/19	04/09/19	1915112	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	0.59	0.020	N/A	mg/L	04/10/19	04/10/19	1915070	
Phosphorus (Total as P)	HACH 8190	0.46	0.0067	N/A	mg/L	04/17/19	04/17/19	1916093	



Lomita, City ofProjectStandard AnalysisWork Order:19D089724373 Walnut AvenueSub Project:Lomita Distribution Ortho, 2nd Week April, 2019Received:04/09/19 18:22Lomita CA, 91717Project Manager:Mark AndersenReported:04/22/19

2052 Dawn St.		19D0897-0	04 (Water)		Sample Da	ote: 04/09/19	8:20 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	1.57		N/A	mg/L	04/09/19	04/09/19	1915112	
pH (Field)	Field	8.01		N/A	pH Units	04/09/19	04/09/19	1915112	
Temperature (Field)	Field	21.5		N/A	°C	04/09/19	04/09/19	1915112	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	0.57	0.020	N/A	mg/L	04/10/19	04/10/19	1915070	
Phosphorus (Total as P)	HACH 8190	0.51	0.0067	N/A	mg/L	04/17/19	04/17/19	1916093	
CWPF SP5		19D0897-0	05 (Water)		Sample Da	ote: 04/09/19	0 10:30 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
ield Analyses									
Cl Res Total (Field)	Field	3.68		N/A	mg/L	04/09/19	04/09/19	1915112	
pH (Field)	Field	8.18		N/A	pH Units	04/09/19	04/09/19	1915112	
		40.		N/A	°C	04/09/19	04/09/19	1915112	
Temperature (Field)	Field	19.7		N/A	C	01/05/15	04/09/19	1913112	
Temperature (Field) General Chemical Analyses	Field	19.7		IN/A	C	01/09/19	04/09/19	1913112	
. ,	Field HACH 8048	0.45	0.020	N/A	mg/L	04/10/19	04/10/19	1915070	

190897 Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client		City of Lomita	Sy	System Number	umber					Ana	Analysis Requested	ted		
Address	2	24373 Walnut Avenue				1010073	773							
		Lomita, CA 91717			-	20161	210			O	,			
Phone #		(310) 903-2243			Dest	Destination Laboratory	boratory		10 THE	RTI	тот	•		
Fax#		(310) 325-3627			X	[X] Clinical Laboratory	boratory			но г	AL			
Project	200	Standard Analysis			RW	RWQCB Compliance	pliance			но	PHO			
Sub Droigot	Lomita Disi	Lomita Distribution Ortho, 2nd Week April,			-	No				SPH	SPH			
		2019	100		(Asylla	ELAP#	#			ATE	IATI			
Comments						4000	٥			(o-P	E (PC			
Sampled by		P.M.				ò	0			O4)	04)		,	
Date Tir	Time	Sample Idenitification	Matrix	Type	Preserv	Bottle Number	Temp.	Total Chlorine	Нф				Comments / P.S. Codes	
4/9/2019 08/	(C 1948 252ND ST.	ST.	DW	Ē	N/A	3	19.40	312	8.11	×	×			
4/9/2019 05	0835 24632 S. MOON	NO	DW	Ē	N/A	4	20.2c	3,3	8.05	×	×			
4/9/2019		th ST.	ΜQ	10	N/A	9	26.7	79	00°0	×	×			
4/9/2019 08	0820 2052 DAWN ST.	ST.	DW	D1	N/A	7	2120	1,51	8.01	×	×			1
4/9/2019	SOS CWPF SP5		DW	DI	W/N	æ	19.70	3.68	8.18	x	×			
														- [
														- 1
														- 1
Preservatives: (1)	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO3	HNO3 (4) NH4CI		2	latrix: DW	-Drinking	Water, W	W-Waste M	later, SW-S	torm	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	und Wa	ter, A-Air	
(5) H2SO4 (t	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	8) Other:				ype- 1-Ro	utine, 2-R	epeat, 3-R	eplacemen	t, 4-Sr	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.	. Dist.		- 1
Relinguish	Relinquished By (Sign)	Print Name / Company			(- t- <u></u>	D	Date / Time				Received By (Sign)		Print Name / Company	7
Petruck me	melis	Patrick McCue / City of Lomita	omita	4/9/2019	. 6			140	9		MOSSA	11	Magasro/USR	
1 2 Gross.	7	Oberono/cusk						29	7		11 Sen 11	Men	1/ehein M	13
		•			Sample	s receiv	cd: (\$\)	Samples received: (💢 On ice 🜔 🔏	(AIntact F	, , , ,) Custody seals Temp	eals T	emp_5.4_(~~
Shipped Via		Fed X Golden State	Sdn 1	C'llent		[] Other					Page_1_of	1		P)

"Your Water and Wastewater Analysis Solution"

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

		AP	RIL 2019	
DATE	DAY	METHAN	NE HANDHELD	COMMENTS
4/1/2019	Mon	CH4- 0%	Oxy- 20.5%	
4/2/2019	Tue	CH4- 0%	Oxy- 20.4%	
4/3/2019	Wed	CH4- 0%	Oxy- 20.4%	
4/4/2019	Thu	CH4- 0%	Oxy- 20.5%	
4/5/2019	Fri	CH4-	Оху-	
4/6/2019	Sat	CH4-	Оху-	
4/7/2019	Sun	CH4-	Оху-	
4/8/2019	Mon	CH4- 0%	Oxy- 20.2%	
4/9/2019	Tue	CH4- 0%	Oxy- 20.2%	
4/10/2019	Wed	CH4- 0%	Oxy- 19.8%	
4/11/2019	Thu	CH4- 0%	Oxy- 20.9%	
4/12/2019	Fri	CH4-	Оху-	
4/13/2019	Sat	CH4-	Оху-	
4/14/2019	Sun	CH4-	Оху-	
4/15/2019	Mon	CH4- 0%	Oxy- 17.6%	
4/16/2019	Tue	CH4- 0%	Oxy- 15.8%	
4/17/2019	Wed	CH4-	Оху-	
4/18/2019	Thu	CH4-	Оху-	
4/19/2019	Fri	CH4-	Оху-	
4/20/2019	Sat	CH4-	Оху-	
4/21/2019	Sun	CH4-	Оху-	
4/22/2019	Mon	CH4- 0%	Оху- 15.9%	
4/23/2019	Tue	CH4-	Оху-	
4/24/2019	Wed	CH4-	Оху-	
4/25/2019	Thu	CH4- 0%	Oxy- 15.9%	
4/26/2019	Fri	CH4-	Оху-	
4/27/2019	Sat	CH4-	Оху-	
4/28/2019	Sun	CH4-	Оху-	
4/29/2019	Mon	CH4- 0%	Oxy- 19.6%	
4/30/2019	Tue	CH4-	Оху-	

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: <u>APRIL 2019</u>

N N N N N N N N N N N N N N N N N N N	ND
N N N N N N N N N N N N N N N N N N N	ND
77. N N N 11. 12. 12. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	7 1 Well/MWD Blend 78 1 Well/MWD Blend ND 1 Well/MWD Blend ND 2 MWD Only ND 3 MWD Only 1 2 MWD Only 1 2 MWD Only 1 Well/MWD Blend
77 N N N 11 12 2 55 N N N N	1 Well/MWD Blend ND 1 Well/MWD Blend ND 2 MWD Only ND 3 MWD Only 1 2 MWD Only 1 Well/MWD Blend
N N N 1 1 2 2 5 5 N N N N	ND
N N 1 1 2 2 5 5 N N N	ND
N 1 1 2 2 5 5 N N N	ND 3 MWD Only 1 2 MWD Only ND 1 Well/MWD Blend
N 1 2 2 5 N N N	1 2 MWD Only ND 1 Well/MWD Blend
N 1 2 2 5 N N N	ND 1 Well/MWD Blend
. 1 . 2 . 5 . N	
. 2 . 5 . N	1 1 Well/MWD Blend
. 5. . N	
N N	2 1 Well/MWD Blend
. N	1 Well/MWD Blend
	ND 1 Well/MWD Blend
. N	
N	ND 2 MWD Only
N	ND 1 Well/MWD Blend
	ND 1 Well/MWD Blend
	6 1 Well/MWD Blend
. 2	29 1 Well/MWD Blend
. N	ND 1 Well/MWD Blend
. N	ND 2 MWD Only
N	ND 3 MWD Only
N	ND 2 MWD Only
. 1	13 1 Well/MWD Blend
	ND 1 Well/MWD Blend
	2 1 Well/MWD Blend
	46 1 Well/MWD Blend
. 8	
. N	ND 2 MWD Only
. N	ND 3 MWD Only
N	ND 2 MWD Only
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¹Notes: 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.