CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

July 2018

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CITY COUNCIL

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



ADMINISTRATION

RYAN SMOOT CITY MANAGER

August 09, 2018

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 (CWPF) for the period of July 1 through July 31, 2018.</u>

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 July 2018.

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

Sincerely,

Mark Andersen

Public Works Superintendent

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 July 2018 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 420 gpm and 628 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 July 2018.

Table 1. Monthly Production Totals.

		Productio	n for July 2018
Well No. 5	56.84	ac-ft	18,518,991 (gallons)
MWD.	83.66	ac-ft	27,260,000 (gallons):
Combined Total	140.50	ac-ft	45,778,991 (gallons)
Daily	4.53	ac-ft/day	1,476,742 (gallons/day)

C. OPERATIONAL INTERRUPTIONS

There were no operational interruptions during the month of July 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 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 598 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 890 mg/L and 460 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 280 mg/L. This hardness level is above 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 0.14 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 July 2018 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 2.0 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 the month of July 2018 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, V	Vell Raw	Water	Discha	irge		Pres	Combi Sure F Effluent	ilter	SP3, /		nloramin reservoir		tatic mi	xer;
Date, week of	Iron, ug/L	*MCL = 3 00 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
7/3/2018											ND	300	ND	50	5	15
7/10/2018	240	300	190	50	10	15	Α	Α	ND	500	ND	300	ND	50	5	15
7/17/2018											ND	300	ND	50	5	15
7/24/2018											ND	300	ND	50	7.5	15
7/31/2018											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
7/3/2018	6.77	1.36	8.34	0.97	0.58	4.85	0.76	0.13	3.44	0.68
7/10/2018	6.67	1.25	8.02	0.91	0.65	5.07	0.8	0.13	3.55	0.71
7/17/2018	8.40	1.10	7.55	0.84	0.88	5.03	0.63	0.07	3.31	0.63
7/24/2018	8.31	1.06	8.28	0.82	0.69	4.90	0.74	0.06	3.48	0.69
7/31/2018	7.18	0.97	8.10	1.01	0.74	5.16	0.82	0.09	3.54	0.71

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

		TD	S, mg/L		T.O.N	ı.		Hardn	ess, mç	J/L	CARCORD BENEFIT COME	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	
7/3/2018			530	500-750	2	3						0.27	
7/10/2018	840	550	580	500-750	2	3	260	230	280	180-250	1.8	0.14	
7/17/2018			690	500-750	2	3						0.078	
7/24/2018			630	500-750	2	3						0.14	
7/31/2018			560	500-750	2	3						0.072	
Average			598	500-750	2	3						0.14	

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	7/31/18	0.33	0.36
24632 S Moon Ave	7/31/18	0.34	0.38
2450 W 247 th St	7/31/18	0.35	0.45
2052 Dawn St	7/31/18	0.33	0.39
CWPF SP5	7/31/18	0.35	PERCENT AND A STATE OF

Notes:

Monthly- Orange;

mg/L – milligram per liter

Monthly CWPF Monitoring Report – July 2018 Cypress Water Production Facility City of Lomita; System No. 1910073

	Control of the Contro	THE RESERVE THE PARTY OF THE PA						
Sample Locations	Frequency	MCL/	7/3	7/10	7/17	7/24	7/31	Comments
and Parameters		Goal	1stWk	2 nd Wk	3rdWk	4 th Wk	5 th Wk	and/or
					0.0			Other Info.
			or Mo.					
			Result					
			(date)					
SP1 Also called	Well 5 Raw	v Water o	or Site#1.					
TDS, ppm	Monthly	See SP5	840	Operations	Data/Inform	nation:		*Chlorine injected after
Hardness	Monthly	See SP5	7/10	CWPF opera	tion days			SP1, before entering the greensand filter.
nardness	Monthly	Jee or J	260 7/10					the greensand litter.
CH4, ppm	Monthly	See SP5	1.8	On Well 5: 0 - 56.84 AF	Daily average t	flow – 420 gpn	n; total prod.	
			7/10		/ell 5/MWD da	ata: Average V	Vell 5: MWD	
Iron, ppb	Monthly	See SP3	240	blend Ratio -	40% WELL: 6	60% MWD; tot	al prod	
Manganese, ppb	Monthly	See SP3	7/10 190	140.50 AF				
Manganese, ppb			7/10	Chlorine Do	sage: N/A*			
Color, units	Monthly	See SP3	10	Official De	Jugo. Inn			
Total Coliform, P or A	Monthly		7/10					
Total Collionn, P or A	Monthly	Α	A 7/10					
SP2 Also called	Filter Efflu	ent or Si	THE RESERVE OF THE PERSON NAMED IN					
Total Coliform, P or A	Monthly	Α	Α					*Ammonia added after
HPC,MPN/100 ml	Monthly	500	ND	Ammonia D	osage: N/A*			filter effluent
Free CI Res, ppm	Continuous	Average	7.47 ; Ran	ge: 6.67 – 8	.40			1
SP3 Also called	the Site Af					ending or	Site#4.	
Iron, ppb	Weekly	ND	ND	ND	ND	ND	ND	
Manganese, ppb	Weekly	50	ND	ND	ND	ND	ND	1
Color	Weekly	15	5	5	5	7.5	5	1
COIO	AAGGKIA	10			3	7.5	0	1
	Continuous	Free CI: A	Average: 1.1	Range: 0.9	97 – 1.36	7.5	5	-
Free and Total CI Res,		Free Cl: A	Average: 1.18 Average: 8.0	; Range: 0.9 6; Range: 7	97 – 1.36 .55 – 8.34	7.5	5	-
Free and Total CI Res, ppm	Continuous	Free CI: A Total CI: A Ammonia	Average: 1.18 Average: 8.0 : Average: 0	5; Range: 0.9 6; Range: 7 .91; Range:	97 – 1.36 .55 – 8.34 0.82 – 1.01			-
Free and Total CI Res, ppm SP4 Also called	Continuous	Free CI: A Total CI: A Ammonia	Average: 1.19 Average: 8.0 : Average: 0 or the Site	5; Range: 0.9 6; Range: 7 .91; Range: • Well 5/M	97 – 1.36 .55 – 8.34 0.82 – 1.01			phate Injection.
Free and Total CI Res, ppm SP4 Also called Phosphate Injection	Continuous Reservoir	Free CI: A Total CI: A Ammonia Influent of Phosphat	Average: 1.18 Average: 8.0 : Average: 0 or the Site	5; Range: 0.9 6; Range: 7 91; Range: • Well 5/M 0.49 mg/L	97 – 1.36 .55 – 8.34 0.82 – 1.01 WD Water			
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res,	Continuous	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A	Average: 1.18 Average: 8.0 : Average: 0 or the Site to Dosage: 0 Average: 0.7	5; Range: 0.9 6; Range: 7 91; Range: • Well 5/M 0.49 mg/L 0; Range: 0.9	97 – 1.36 .55 – 8.34 0.82 – 1.01 WD Water 58 – 0.88			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: Total CI: A	Average: 1.15 Average: 8.0 : Average: 0 or the Site to Dosage: 0 Average: 0.7 Average: 5.0	5; Range: 0.96; Range: 0.9791; Range: e Well 5/M 0.49 mg/L 0; Range: 0.90; Range: 4.	97 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16			
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: Total CI: A Ammonia	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0	5; Range: 0.9 6; Range: 7 91; Range: 6 Well 5/M 1.49 mg/L 0; Range: 0.0 0; Range: 4.	97 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80	Blend Po	oint/Phosp	CI/NH3 Ratio: 6.63
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: Total CI: A Ammonia	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5.	5; Range: 0.9 6; Range: 7 91; Range: 6 Well 5/M 1.49 mg/L 0; Range: 0.0 0; Range: 4.	97 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80	Blend Po	oint/Phosp	CI/NH3 Ratio: 6.63
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called	Reservoir Continuous	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A Total CI: A Ammonia	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0	5; Range: 0.9 6; Range: 7 91; Range: 6 Well 5/M 1.49 mg/L 0; Range: 0.0 0; Range: 4.	97 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80	Blend Po	oint/Phosp	CI/NH3 Ratio: 6.63
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm	Reservoir Continuous Reservoir Weekly	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: A Total CI: A Ammonia Effluent SI Goal: 500-750ppm SI Goal:	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5.	5; Range: 0.9 6; Range: 7 91; Range: e Well 5/M 1.49 mg/L 0; Range: 0.0 0; Range: 4. 75; Range: SP5 disc	97 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80 harges in	Blend Po	of the dis	CI/NH3 Ratio: 6.63
Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness	Reservoir Continuous Reservoir Weekly Monthly	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: Total CI: A Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm	Average: 1.19 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5.	5; Range: 0.9 6; Range: 7 91; Range: 6 Well 5/M 0.49 mg/L 0; Range: 0.0 0; Range: 4. 75; Range: SP5 disc	97 – 1.36 .55 – 8.34 0.82 – 1.01 WD Water 58 – 0.88 85 – 5.16 0.63 – 0.80 harges in	to Zone 1	of the dis	CI/NH3 Ratio: 6.63 stribution system
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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	Reservoir Continuous Reservoir Weekly Monthly	Free CI: A Total CI: A Ammonia Influent Phosphat Free CI: Total CI: A Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from	Average: 1.19 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5.	5; Range: 0.9 6; Range: 7 91; Range: 6 Well 5/M 0.49 mg/L 0; Range: 0.0 0; Range: 4. 75; Range: SP5 disc	97 – 1.36 .55 – 8.34 0.82 – 1.01 WD Water 58 – 0.88 85 – 5.16 0.63 – 0.80 harges in	to Zone 1 630 0.14	of the dis	CI/NH3 Ratio: 6.63 stribution system
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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	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous	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: A Total CI: A Ammonia	Average: 1.15 Average: 8.0 : Average: 0 or the Site te Dosage: 0 Average: 0.7 Average: 0.0 or Site#5. 530 0.27 2 Average: 0.0 Average: 3.4 : Average: 0	5; Range: 0.9 6; Range: 0.9 6; Range: 7 91; Range: 2 2 Well 5/M 0.49 mg/L 0; Range: 0.0 0; Range: 4. 75; Range: 4. 75; Range: 4. 280 0.14 2 9; Range: 0.0 6; Range: 3.3 68; Range: 0.0	97 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80 harges in 690 0.078 2 06 - 0.13 31 - 3.55 0.63 - 0.71	to Zone 1 630 0.14	of the dis	CI/NH3 Ratio: 6.63 Stribution system % CH4 Removal: 92.2% 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	Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re	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: A Ammonia eservoir. Goal -	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5. 530 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Aver	5; Range: 0.96; Range: 791; Range: 791; Range: 2 Well 5/M 1.49 mg/L 0; Range: 0.0; Range: 4.75; Range: 4.75; Range: 580 280 0.14 2 9; Range: 0.06; Range: 3.368; Range: 0.48%	97 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80 harges in 690 0.078 2 06 - 0.13 31 - 3.55 0.63 - 0.71	to Zone 1 630 0.14	of the dis	CI/NH3 Ratio: 6.63 Stribution system % CH4 Removal: 92.2% 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 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	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5. 530 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	5; Range: 0.96; Range: 791; Range: 791; Range: 2 Well 5/M 1.49 mg/L 0; Range: 0.00; Range: 4.75; Range: 4.75; Range: 4.75; Range: 4.75; Range: 580 280 0.14 2 9; Range: 0.06; Range: 3.30 68; Range: 0.48% age: 0.48% age: 0.48%	27 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80 harges in 690 0.078 2 06 - 0.13 31 - 3.55 0.63 - 0.71	to Zone 1 630 0.14 2	of the dis	CI/NH3 Ratio: 6.63 Stribution system % CH4 Removal: 92.2% CI/NH3 Ratio: 5.09
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 Classical CI Res, ppm Headspace of the Classical CI Res, ppm CH4 ppmv; using Portable Device SP 6 MWD Source	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	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5. 530 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	5; Range: 0.9 6; Range: 0.9 6; Range: 7 91; Range: 2 Well 5/M 1.49 mg/L 0; Range: 0.0 0; Range: 4. 75; Range: 4. 75; Range: 4. 280 0.14 2 9; Range: 0.1 6; Range: 3.3 68; Range: 0.48% ge: 0% - 39 d Zone 2	27 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80 harges in 690 0.078 2 06 - 0.13 31 - 3.55 0.63 - 0.71	to Zone 1 630 0.14 2	of the dis	CI/NH3 Ratio: 6.63 Stribution system % CH4 Removal: 92.2% CI/NH3 Ratio: 5.09
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 1CH4 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 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	Average: 1.15 Average: 8.0 : Average: 0 or the Site e Dosage: 0 Average: 0.7 Average: 5.0 : Average: 0 or Site#5. 530 0.27 2 Average: 0.0 Average: 3.4 : Average: 0 CH4 Average: 0 CH4 Rar	5; Range: 0.96; Range: 791; Range: 791; Range: 2 Well 5/M 1.49 mg/L 0; Range: 0.00; Range: 4.75; Range: 4.75; Range: 4.75; Range: 4.75; Range: 580 280 0.14 2 9; Range: 0.06; Range: 3.30 68; Range: 0.48% age: 0.48% age: 0.48%	27 - 1.36 .55 - 8.34 0.82 - 1.01 WD Water 58 - 0.88 85 - 5.16 0.63 - 0.80 harges in 690 0.078 2 06 - 0.13 31 - 3.55 0.63 - 0.71	to Zone 1 630 0.14 2	of the dis	CI/NH3 Ratio: 6.63 Stribution system % CH4 Removal: 92.2% CI/NH3 Ratio: 5.09

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

APPENDIX A

LABORATORY RESULTS



24 July 2018 Clinical Lab No.: 18G0302

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

Project Name: Standard Analysis

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

Enclosed are the results of the analyses for samples received at the laboratory on 07/03/18 . 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:18G030224373 Walnut AvenueSub Project:CWPF 1st Week of July, 2018 Compliance SamplingReceived:07/03/18 16:20Lomita CA, 91717Project Manager:Mark AndersenReported:07/24/18

Reservoir Influent Site #3		18G0302-	01 (Water)		Sample Da	te: 07/03/18	3 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	7.9		N/A	mg/L	07/03/18	07/03/18	1827146	
pH (Field)	Field	7.91		N/A	pH Units	07/03/18	07/03/18	1827146	
Temperature (Field)	Field	22.2		N/A	°C	07/03/18	07/03/18	1827146	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	07/03/18	07/03/18	1827165	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/16/18	07/17/18	1829020	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/16/18	07/17/18	1829020	
Reservoir Effluent Site #5		18G0302-	02 (Water)		Sample Da	te: 07/03/18	3 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	3.33		N/A	mg/L	07/03/18	07/03/18	1827146	
pH (Field)	Field	8.06		N/A	pH Units	07/03/18	07/03/18	1827146	
Temperature (Field)	Field	21.1		N/A	°C	07/03/18	07/03/18	1827146	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	07/03/18	07/03/18	1827165	
Odor Threshold	EPA 140.1-M	2	1	3	TON	07/03/18	07/03/18	1827165	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	530	5.0	1000	mg/L	07/10/18	07/12/18	1828053	
ND Analyte NOT DETECTED at or									



July 13, 2018

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: 18G0302

Lab Number:

J070601-01

Enclosed are results for sample(s) received 7/06/18 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 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.

2 of 4

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 18G0302

J070601

	74		
SENDING LABORATORY:	RECEIVING LABORATORY	<u>':</u>	
Clinical Laboratory of San Bernardino	Air Technology Labs		
21881 Barton Road	18501 East Gale Avenue Suit	e 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	rax.		
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] styles@clinical-	-lab.com [] nelson@clinical-lab.com		
California EDT transfer those samples with I Water Trax Upload Client:	PS codes provided [] Yes [V] No		
Turn Around Time [] 10 Days [\$\sqrt{5}\$ Days Subcontract Comments:	[] Other Days	94.00	
		· ·	
Analysis		Comments	
Sample ID: Reservoir Effluent Site #5 / 18G0302-02	Sampled: 07/03/18 09:25 PS Code: Water W7	TX ID:	
Methane RSK175		Report in mg/L	-
ontainers Supplied:			

40ml Amber Vial (C)

40ml Amber Vial (B)

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

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

18G0302

Date Received:

07/06/18

Matrix:

Water

Reporting Units: mg/L

		RS	K175			
Lab No.:	J07060	01-01		I		
	Reservoir					
Client Sample I.D.:	Site	#5/				
	18G030	02-02				
Date/Time Sampled:	7/3/18	9:25				
Date/Time Analyzed:	7/11/18	11:29				
QC Batch No.:	1807110	GC8A1				
Analyst Initials:	AS	S				
Dilution Factor:	1.0)				
	Result	RL				
ANALYTE	mg/L	mg/L mg/L				
Methane	0.27	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

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180711GC8A1

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			L	CS	LC	CSD				
Date/Time Analyzed:	7/11/18 11:16			7/11/1	8 10:00	7/11/1	8 10:29				
Analyst Initials:	AS			Α	S	A	\S				
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	0.65	0.794	121	0.742	113	6.8	70	130	30.0

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson Operations Manager

The cover letter is an integral part of this analytical report

18610305

Client	City of Lomita		Sys	System Nu	mber				Analy	Analysis Requested	quest	pa			
Address	24373 Walnut Avenue	ıne			101	1910072									
	Lomita, CA 91717	7			0	200					M				
Phone #	(310)903-2243			D	estination	estination Laboratory	ory			19	leth	è			
Fax#]	x] Clinica	X] Clinical Laboratory	ory			Total	ane				
Project	Standard Analysis				RWQCB (RWQCB Compliance	e				-	O			
Sub Project	CWPF 1st week of July, 2018 Compliance Sampling	Compliance				yes ELAP#			langanes	olor	iter) (R	dor			
Comments	For TC/EC/BACT see weekly Distro CoC	istro CoC			16	4000				lids	SK1				
Sampled by	P. M.					000					75)				
Date Time	ne Sample Idenitification	tion	Matrix	Type	Preserv	Hd	Temp.	Total						Comments / P.S.	. Codes
7/3/2018 09	C92℃ Reservoir Influent Site #3		DW	1W	A/N	7.91	222	7.9	×	×					
COm 8100/2/2	Docorroir Effluent Cito #5		MU	W	V/N	20	C	7,7		>		>			
	1		n n	*		900	5	0		+	1	4	+		
7/3/2018 0925	Reservoir Effluent Site #5		DW	<u>*</u>	2					+	×		1		
									+	+	1	+	+		
											1				
										+		-			
Preservatives: (1)	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix: D	Matrix: DW-Drinkir	g Water,	WW-Was	te Water,	ng Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	Water, G	W- Gro	und W.	ater, A-A	Vir	Type- 1-F	Type- 1-Routine, 2-Repeat, 3-
(5) H2SO4 (t	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:							Repl	acemen	t, 4-Spe	cial W	Replacement, 4-Special W-Well D-Dist.	- Dist		
Relinquish	Relinquished By (Sign) Print Na	Print Name / Company				Date / Time	Time			0		1	\	Print Name / Company	ompany
Set The A	The Schick Mc UCity of Lomita	JeCity of Lom		7/3/2018	1		1:30		1	M	1	hely	1	This Martine	8.,
More May	What Chris Man	Martinez		7-34	S	7	4.20		3 -	1F/	8	9	-	Bob Glach, / Cl	25
Comments:					S	amples	Samples received: (: () On ice	ice () Int) Intact (stody s	Castody seals Temp 79)F & C
Shipped Via	Fed X	Golden State	SULLI	Client		Other					Pag	Page 1 of	1		
11															



26 July 2018 Clinical Lab No.: 18G0970

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

Project Name: Standard Analysis

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

Enclosed are the results of the analyses for samples received at the laboratory on 07/10/18 . 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

tistes



Lomita, City ofProject:Standard AnalysisWork Order:18G097024373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of JungReceived:07/10/18 17:00

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 07/26/18

Raw Water Site #1		18G0970-	01 (Water)		Sample Da	te: 07/10/18	6:05 S	Sampler: Pa	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	7.66		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	24.9		N/A	°C	07/10/18	07/10/18	1828131	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
E. Coli	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
Plate Count	SM9215B	31	1	500	CFU/ml	07/10/18	07/12/18	1828184	HT-08
General Physical Analyses									
Apparent Color	SM 2120BM	10.0	3.0	15	Color Units	07/11/18	07/11/18	1828136	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	260	6.6	N/A	mg/L	07/24/18	07/24/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	840	5.0	1000	mg/L	07/17/18	07/19/18	1829054	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	51	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Iron (Fe)	EPA 200.7	240	100	300	ug/L	07/19/18	07/19/18	1829102	
Magnesium (Mg)	EPA 200.7	33	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Manganese (Mn)	EPA 200.7	190	20	50	ug/L	07/19/18	07/19/18	1829102	
Filter Effluent (Free Chlorine) Site #2		18G0970-	02 (Water)		Sample Da	te: 07/10/18	6:10 S	Sampler: Pa	atrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	10.8		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	7.71		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	24.4		N/A	°C	07/10/18	07/10/18	1828131	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
E. Coli	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
Plate Count	SM9215B	ND	1	500	CFU/ml	07/10/18	07/12/18	1828184	HT-08



Lomita, City ofProject:Standard AnalysisWork Order:18G097024373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Jun/Received:07/10/18 17:00Lomita CA, 91717Project Manager:Mark AndersenReported:07/26/18

Filter Effluent (Total Chlorine) Site #3		18G0970-	03 (Water)		Sample Dat	te: 07/10/18	6:12 S	ampler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	10		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	7.67		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	23.7		N/A	°C	07/10/18	07/10/18	1828131	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	07/11/18	07/11/18	1828136	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/19/18	07/19/18	1829102	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/19/18	07/19/18	1829102	
Zone #2 Site #6		18G0970-	04 (Water)		Sample Date	te: 07/10/18	6:25 S	ampler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.04		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	8.32		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	23.5		N/A	°C	07/10/18	07/10/18	1828131	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	230	6.6	N/A	mg/L	07/24/18	07/24/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	550	5.0	1000	mg/L	07/17/18	07/19/18	1829054	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	56	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Magnesium (Mg)	EPA 200.7	21	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	



Lomita, City ofProject:Standard AnalysisWork Order:18G097024373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Jun/Received:07/10/18 17:00Lomita CA, 91717Project Manager:Mark AndersenReported:07/26/18

Reservoir Effluent Site #5		18G0970-0	05 (Water)		Sample Da	ate: 07/10/18	8 6:30 Sa	mpler:	Patrick McCue
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.59		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	7.86		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	23.3		N/A	°C	07/10/18	07/10/18	1828131	
General Physical Analyses									
Odor Threshold	EPA 140.1-M	2	1	3	TON	07/11/18	07/11/18	1828136	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	280	6.6	N/A	mg/L	07/24/18	07/24/18	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	07/11/18	07/11/18	1828093	
Total Filterable Residue/TDS	SM 2540C	580	5.0	1000	mg/L	07/17/18	07/19/18	1829054	
Metals									
Calcium (Ca)	EPA 200.7	72	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Magnesium (Mg)	EPA 200.7	25	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	

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



July 19, 2018

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: 18G0970

Lab Number:

J071201-01/02

Enclosed are results for sample(s) received 7/12/18 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 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

Mbl. to

MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 18G0970

2 of 4 J071201 - 01/62

	18G09/0		
SENDING LABORATORY:	RECEIVING I	ABORATORY:	
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 Technolog 18501 East Ga City of Industr Phone :(626) 9 Fax:	lle Avenue Suite 130 y, CA 91748	
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com	al-lab.com [] nelson@clinica	I-lab.com	
Water Trax Upload Client: Turn Around Time Subcontract Comments: 5 Days	[] Yes	No	
Analysis		Comments	н
Sample ID: Raw Water Site #1 / 18G0970-01	Sampled: 07/10/18 06: Water	05 PS Code: WTX ID:	
Methane RSK175		Report in mg/L	
Containers Supplied:			
40ml Amber Vial (B) 40ml A	Amber Vial (C)		
Sample ID: Reservoir Effluent Site #5 / 18G0970-05	Sampled: 07/10/18 06:. Water	30 PS Code: WTX ID:	
Methane RSK175	8	Report in mg/L	100

Containers Supplied: 40ml Amber Vial (B)

Released By

Date / Time

Received By

Date / Time

Received By

Date / Time

Date / Time

Date / Time

Date / Time

40ml Amber Vial (C)

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

18G0970

Date Received:

07/12/18

Matrix:

Water

Reporting Units: mg/L

RSK175

			T 70=10	1 00		T	
Lab No.:	J07120	01-01	J07120				
	Raw V	Vater	Reservoir	Effluent			
Client Sample I.D.:	Site 7	#1 /	Site	¥5 /			
	18G09'	70-01	18G09	70-05	 		
Date/Time Sampled:	7/10/18	3 6:05	7/10/18	6:30			
Date/Time Analyzed:	7/17/18	10:29	7/17/18	10:16			
QC Batch No.:	1807170	GC8A2	1807170	GC8A2			
Analyst Initials:	AS	S	AS	8			
Dilution Factor:	1.0	0	1.0				
	Result	RL	Result	RL		21	
ANALYTE	mg/L	mg/L	mg/L	mg/L			
Methane	1.8	0.0010	0.14	0.0010			

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:	MAll.	1
	Mark Johnson	

Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180717GC8A2

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LC	CSD				
Date/Time Analyzed:	7/17/18 1	0:03		7/17/1	8 9:36	7/17/	18 9:49				
Analyst Initials:	AS			A	S	F	\S				
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	0.65	0.807	123	0.804	123	0.4	70	130	30.0

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

1860970

Client		City of Lomita	Sys	System Number	ımper				Analysis		Rednested	eq		-		
Address		24373 Walnut Avenue			10,	1910073										
		Lomita, CA 91717			2	7 100								Me		
Phone #		(310)903-2243		7	Destinativ	Destination Laboratory	tory				110	Но		etha		
Fax#					[X] Clinic	Clinical Laboratory	tory		_					ine (
Project		Standard Analysis			RWQCB	RWQCB Compliance	eou		_				(
Sub Project		CWPF Monthly Compliance Samples; 2nd week of July, 2018			Ш	YES ELAP#			Manga ssolved	. Coli	Colifo	itrate ic Plat	Color	ATER) Odor	rdness	7
Comments					-	1088						e Com		(RSK		
Sampled by		Patrick McCue							S			nf		(1/5)		
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Temp.	Hd	Total Chlorine								9
7/10/2018	0605	Raw Water Site #1	GW	1.1	N/A	24.9°	7.66	Ø	X				X			
7/10/2018	5090	Raw Water Site #1	GW	W1	1, 2, 7	24.9°	7.66	Ø		X	X	X		^	X	
7/10/2018	0190	Filter Effluent (Free Chlorine) Site#2	DW	WI	1,7	34.45	17.7	10.8		X	×	X				
7/10/2018	2100	Filter Effluent (Total Chlorine) Site#3	DW	WI	N/A	23.70	7.67	0.01	X				×			
7/10/2018	0625	Zone #2 Site #6	DW	110	N/A	23.50	8,32	2.04	×				ndj.		×	
•																
7/10/2018	0630	Reservoir Effluent Site #5	DW	ID	N/A	23,3°	7.86	3.59	×					×	×	
7/10/2018	0630	Reservoir Effluent Site #5	DW	01	2,7									_	×	
Preservatives	: (1) Na ₂ S ₂ O ₃	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI	Matrix:	Matrix: DW-Drinkin	king Wat	er, WW-W	aste Water	ng Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	Storm Water, GW- Ground Water, A-Air	GW-G	round	Water,	A-Air			Type- 1-Routine, 2-Repeat,
(5) H2S(74 (6) Na2SO:	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:						3-Kek	насеше	11, 4-5	ecial	Hann-A	20.00	1	4	
Relin	Relinquished By (Sign)	Sign) Print Name / Company	iy			Date /	Date / Time				Receiv	Received By (Sign)	Sign)		1	Print Name / Company
Patrick	in Megs	Patrick McCue /City of Lomita 7/10/2018	Lomita	7/10/20	81(/	1:40		7	PEX	.2	N	1	12		Charis Martinez
hr	1 Ma	May Math	2 my	7-10-1	81-18	Ä	10	000	7	V	A.	V	0	\forall	4	
Comments:				, d	J 2	amples	Samples received: (On ice	Je e	+ Hutact) joi) C	Custody seals	seals	Temp	p 7.6 ()F MC
Shipped Via		Fed X Golden State	e II UPS	l Sd	Client	Other	er					Page_I_of	_fo_1	1		



07 August 2018 Clinical Lab No.: 18G1628

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

Project Name: Standard Analysis

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

Enclosed are the results of the analyses for samples received at the laboratory on 07/17/18 . 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 ofProjectStandard AnalysisWork Order:18G162824373 Walnut AvenueSub Project:CWPF 3rd Week of July, 2018 Compliance Sampling Received:07/17/18 18:00Lomita CA, 91717Project Manager:Mark AndersenReported:08/07/18

Reservoir Influent Site #3		18G1628-	01 (Water)		Sample Da	te: 07/17/18	8 8:35 Sa	mpler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	10.6		N/A	mg/L	07/17/18	07/17/18	1829097	
pH (Field)	Field	7.72		N/A	pH Units	07/17/18	07/17/18	1829097	
Temperature (Field)	Field	23.7		N/A	°C	07/17/18	07/17/18	1829097	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	07/17/18	07/17/18	1829088	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/25/18	07/25/18	1830085	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/25/18	07/25/18	1830085	
Reservoir Effluent Site #5		18G1628-	02 (Water)		Sample Da	te: 07/17/18	8 8:40 Sa	mpler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.298		N/A	mg/L	07/17/18	07/17/18	1829097	
pH (Field)	Field	8.04		N/A	pH Units	07/17/18	07/17/18	1829097	
Temperature (Field)	Field	23.6		N/A	°C	07/17/18	07/17/18	1829097	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	07/17/18	07/17/18	1829088	
Odor Threshold	EPA 140.1-M	2	1	3	TON	07/17/18	07/17/18	1829088	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	07/19/18	07/24/18	1829123	
ND Analyte NOT DETECTED at or									



July 26, 2018

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

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

TX Cert T104704450-14-6

LABORATORY TEST RESULTS

Project Reference: 18G1628

Lab Number:

J071903-01

Enclosed are results for sample(s) received 7/19/18 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 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 18G1628

J871983-01

logy Labs Gale Avenue Suite 130
ustry, CA 91748 6) 964-4032
iical-lab.com
es [v]No s [v]No
Comments
08:40 PS Code: WTX ID:
Report in mg/L
nii S

4°C

BJ Sty	07/18/18 16:45	Muchool	laker	7/19/18	8:00
Released By	Date / Time	Received By		Date / Time /	
melad sale	7/19/14 11:55	V-wD	1 =>	7/19/18	1155
Released By	Date / Time	Received By		Date // Time	- I de la constitución de la con
		·	1		

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

18G1628

Date Received:

07/19/18

Matrix:

Water

Reporting Units: mg/L

		RS	K175			
Lab No.:	J07190	03-01				
Client Sample I.D.:	Reservoir Site #5/18	Effluent G1628-				
Date/Time Sampled:	7/17/18					
Date/Time Analyzed:	7/26/18	10:59				***************************************
QC Batch No.:	1807260	GC8A1			The state of the s	
Analyst Initials:	AS	8				
Dilution Factor:	1.0)				
ANALYTE	Result mg/L	RL mg/L				
Methane	0.078	0.0010				

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

RL = Reporting Limit

Reviewed	An	proved	By:

Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180726GC8A1

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LC	CSD				
Date/Time Analyzed:	7/26/18 1	0:42		7/26/1	18 9:56	7/26/1	8 10:29				
Analyst Initials:	AS			A	S	. A	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	0.65	0.805	123	0.770	118	4.5	70	130	30.0

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

The cover letter is an integral part of this analytical report

8291581

Client	City of Lomita	System N	lumber			A	Analysis Requested	Redu	estec				
Address	24373 Walnut Avenue		707	1040072				-					
-	Lomita, CA 91717		<u> </u>	2 200									
Phone #	(310)903-2243		Destination	Destination Laboratory	ory			leth					
Fax#			[X] Clinic	[X] Clinical Laboratory	ory			iane					
Project	Standard Analysis		RWQCB	RWQCB Compliance	9.		ıl Diss	(W:					
Sub Project	CWPF 3rd week of July, 2018 Compliance			yes				olor	dor				
100 cm	Sampling			ELAP #									
Comments	For TC/EC/BACT see weekly Distro CoC		•				-	RSK					
Sampled by	1		_	1088				175)		-,			
Date Time		Matrix Type	Preserv	a d	Temp.	Lotal						Comments / D S. Codes	ú
7/17/2018 08:35	O용35 Reservoir Influent Site #3	DW 1W	N/A	7.72	23,7	+-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	×					,
	$\delta e 4 \theta$ Reservoir Effluent Site #5	DW IW	Ϋ́	ें ठ	236	3.298	/	'	×				
7/17/2018 089	○ 8 4 © Reservoir Effluent Site #5	DW. IW	2					×	-				
						VALUE OF THE PARTY			-				
•							-	+	\perp				
							-	+	-				
								-	-				
	**							+	-				
									-				
									1				
									-				
Preservatives: (1) Na	t) NH4CI	Matrix: DW-Drinkir	ing Water,	WW-Wast	e Water, S	ng Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	ter, GW-	Ground	Water	A-Air		Type- 1-Routine, 2-Repeat.	2-Repeat. 3-
(5) H2SO4 (6) N	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:					Replace	ment, 4-	Special	W-W	Replacement, 4-Special W-Well D- Dist.			, fr., L
Relinquished By (Sign)	By (Sign) Print Name / Company			Date / Time	ïme		7,0					Print Name / Company	
Patrick my	Ctrick INC. Writy of Lomita	ta 7/17/201	/ 81			1.4.7	N	113 11			M.	Je Michael	
Pores Mari	has Chas Wartinez		15			000	35	14	h	1	J		
Comments:				amulee	Samples received: (On ica	μ,	Intact			aloos	72 / 18	;
				ampics i	ברכו אכנו.		_	IIII	_	noisn	custouy sears Temp	1 cmp / () r . ()	ر -
Shipped Via	Fed X Golden State	UPS Clie	nt	Other					Page	Page_1_ of_1_			



07 August 2018 Clinical Lab No.: 18G2097

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

Project Name: Standard Analysis

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

Enclosed are the results of the analyses for samples received at the laboratory on 07/24/18 . 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 ofProject:Standard AnalysisWork Order:18G209724373 Walnut AvenueSub Project:CWPF 4th Week of July, 2018 Compliance SamplingReceived:07/24/18 14:40Lomita CA, 91717Project Manager:Mark AndersenReported:08/07/18

Reservoir Influent Site #3		18G2097-	01 (Water)		Sample Da	te: 07/24/1	8 9:00 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	10.9		N/A	mg/L	07/24/18	07/24/18	1830088	
pH (Field)	Field	7.69		N/A	pH Units	07/24/18	07/24/18	1830088	
Temperature (Field)	Field	24.9		N/A	°C	07/24/18	07/24/18	1830088	
General Physical Analyses									
Apparent Color	SM 2120BM	7.5	3.0	15	Color Units	07/24/18	07/24/18	1830106	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/25/18	07/25/18	1830085	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/25/18	07/25/18	1830085	
Reservoir Effluent Site #5		18G2097-	02 (Water)		Sample Da	te: 07/24/1	8 9:10 Sa	mpler: P.1	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	07/24/18	07/24/18	1830088	
pH (Field)	Field	8.02		N/A	pH Units	07/24/18	07/24/18	1830088	
Temperature (Field)	Field	24.6		N/A	°C	07/24/18	07/24/18	1830088	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	07/24/18	07/24/18	1830106	
Odor Threshold	EPA 140.1-M	2	1	3	TON	07/24/18	07/24/18	1830106	
General Chemical Analyses									



August 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: 18G2097

Lab Number:

J072502-01

Enclosed are results for sample(s) received 7/25/18 by Air Technology Laboratories. Samples were received intact and chilled to 11° 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 18G2097

Jo72502-01

Date / Time

SENDING LABORATORY:		RECEIVING	LABORATORY		
Clinical Laboratory of San Bern	nardino	Air Technolo	ogy Labs		
21881 Barton Road			Gale Avenue Suite	e 130	
Grand Terrace, CA 92313			stry, CA 91748		
Phone: 909.825.7693		Phone :(626)			
Fax: 909.825.7696		Fax:			
Project Manager: Stu Styles	% [^]				
	[styles@clinical-lab.com		/		1).
California EDT transfer Water Trax Upload Clien	those samples with PS codent:	es provided [] Yes [] Yes			w _y
Turn Around Time [] 10 Subcontract Comments:	Days [🗸] 5 Days [] (Other Days			
Analysis				Comments	
Sample ID: Reservoir Effluent S	ite #5 / 18G2097-02	Sampled: 07/24/18 0	9:10 PS Code:	٠	dae es D
6[Water		X ID:	*
Methane RSK175				Report in mg/L	****
Containers Supplied:					
0ml Amber Vial (B)	40ml Amber Vi	al (C)		ā	
					Ē
			10 10 10		3. 9 3. 9
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BI DLW	07/25/18 07!	45	2	D 725/1	8 8.33
Released By			C	Date / Time	,
R	7/25/18 10.5	03 (Ma	n De Ca So	3 7/25/18	1003

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.: Date Received: 18G2097

Matrix:

07/25/18 Water

Reporting Units: mg/L

RSK175

Lab No.:	J07250		,			
	Reservoir	Effluent				
Client Sample I.D.:	Site	#5/				
	18G209	97-02				
Date/Time Sampled:	7/24/18	9:10				
Date/Time Analyzed:	7/26/18	11:16				
QC Batch No.:	1807260	GC8A1				
Analyst Initials:	AS					
Dilution Factor:	1.0)				
	Result	RL				
ANALYTE	mg/L	mg/L				
Methane	0.14	0.0010				

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson **Operations Manager** Date 8-1-18

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180726GC8A1

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LO	CSD				
Date/Time Analyzed:	7/26/18 1	0:42		7/26/1	8 9:56	7/26/1	8 10:29				
Analyst Initials:	AS			A	\S	A	NS				_
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	0.65	0.805	123	0.770	118	4.5	70	130	30.0

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson Operations Manager Date 8-1-18

The cover letter is an integral part of this analytical report

Chain of Custody 1862097

Client			City of Lomita	S	System Number	umber				Analy	Analysis Requested	sanba	ted					
Address		243	24373 Walnut Avenue			10,	1910072	-										
		1	Lomita, CA 91717			2	C / OO					М						
Phone #			(310)903-2243		,	Destinati	Destination Laboratory	yıc				eth						
Fax#						[X] Clinic	[X] Clinical Laboratory)ry			Total	ane						
Project		S	Standard Analysis			RWQCB	RWQCB Compliance	ø				(Wa	00					
Sub Project		CWPF 4th w	CWPF 4th week of July, 2018 Compliance				yes			langa	olor olved	iter)	dor					
ofo i ano			Sampling			Ш	ELAP#				Soli	(R						
Comments		For TC/EC/BAC	For TC/EC/BACT see weekly Distro CoC			~	4000				ids	SK1						
Sampled by	ý), M.			-	000					75)						
Date	Time		Sample Idenitification	Matrix	Type	Preserv	Hd ,	Temp.	Total							Com	Comments / P.S. Codes	Codes
7/24/2018	0900	7/24/2018 O9CO Reservoir Influent Site #3	ent Site #3	DW	IW	A/A	7.69	24.91	10.9	/	×							
7/24/2018	0310	7/24/2018 Og 1 C Reservoir Effluent Site #5	ent Site #5	DW	×	A/N	2018	24%	3,3	,	X		\ \ \					
7/24/2018	0760	CQ 1 0 Reservoir Effluent Site #5	ent Site #5	DW,	<u>*</u>	7						/						
											_							
											-							
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											-	1		1				
Preservatives): (1) Na,	Preservatives: (1) Na.S.O. (2) HCI (3) HNO3 (4) NH4CI	403 (4) NH4CI	Matrix:	Matrix: DW-Drinki	ng Water	ng Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air	e Water, S	W-Storm	Water, G	W. Gre	und 16	'ater, A-	Air			Type- 1-Ro	Type- 1-Routine, 2-Repeat,
(5) H2S(04 (6) N ₂	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	Other:						Repl	Replacement, 4-Special W-Well D-Dist	t, 4-Sp	ecial V	V-Well	D- Dist	7			
Reling	quished	Relinquished By (Sign)	Print Name / Company				Date / Time	ïme			1		11	1	10	Prin	Print Namd/ Company	mpany
Matter	Tyris,	medel	Patrick MCGACity of Lon	nita	7/24/201	/ 81			1:00	7	MA	2	MA	7	V.) /	1/1/2	Ja/4/22	π
May	113	12	Mrs Wartines		7-24-1	No.			2 40	2	70	-			2	7) (0	228	
Comments:							Samples received: () On ice	received	:()On	') E	lact () C	ustody	Intact () Custody seals Temp	emp	\(\))F (×
Shipped Via	•		Fed X Golden State UPS	I I UPS	Client	-	Other					Pa	Page 1 of 1	J-J.				
m anddance			-															



09 August 2018 Clinical Lab No.: 18H0078

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

Project Name: Standard Analysis

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

Enclosed are the results of the analyses for samples received at the laboratory on 07/31/18 . 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

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Lomita, City ofProjectStandard AnalysisWork Order:18H007824373 Walnut AvenueSub Project:CWPF 5th Week of July, 2018 Compliance Sampling Received:07/31/18 16:00Lomita CA, 91717Project Manager:Mark AndersenReported:08/09/18

Reservoir Influent Site #3		18H0078-	01 (Water)		Sample Da	te: 07/31/18	8 6:35 Sa i	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	9.2		N/A	mg/L	07/31/18	07/31/18	1831087	
pH (Field)	Field	7.78		N/A	pH Units	07/31/18	07/31/18	1831087	
Temperature (Field)	Field	22.8		N/A	°C	07/31/18	07/31/18	1831087	
General Physical Analyses									
Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	07/31/18	07/31/18	1831100	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/03/18	08/03/18	1831157	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/03/18	08/03/18	1831157	
Reservoir Effluent Site #5		18Н0078-	02 (Water)		Sample Da	te: 07/31/18	8 6:40 Sa	mpler: P.1	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.75		N/A	mg/L	07/31/18	07/31/18	1831087	
pH (Field)	Field	8.21		N/A	pH Units	07/31/18	07/31/18	1831087	
Temperature (Field)	Field	23.5		N/A	°C	07/31/18	07/31/18	1831087	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	07/31/18	07/31/18	1831100	
Odor Threshold	EPA 140.1-M	2	1	3	TON	07/31/18	07/31/18	1831100	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	560	5.0	1000	mg/L	08/03/18	08/08/18	1832032	
ND Analyte NOT DETECTED at or	above the reporting limit								



August 8, 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: 18H0078 Lab Number:

J080201-01

Enclosed are results for sample(s) received 8/02/18 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

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 18H0078

J080201-01

SENDING LABORATORY:		RECEIVING LA	BORATORY:	2 =	
Clinical Laboratory of San Ber	nardino	Air Technology	Labs		
21881 Barton Road		18501 East Gale	e Avenue Suite	130	
Grand Terrace, CA 92313		City of Industry,			
Phone: 909.825.7693		Phone :(626) 96			
Fax: 909.825.7696		Fax:			
Project Manager: Stu Styles		*			
Please email results to Project I	Manager: Stu Styles [V styles@clinical-lab.com	m [] nelson@clinical-	lab.com		
California EDT transfer Water Trax Upload Clie	those samples with PS code nt:		[]No		go.
Turn Around Time [] 10 Subcontract Comments:	Days [] 5 Days [] 0	Other Days	**************************************		The second secon
					x*
Analysis				Comments	
Sample ID: Reservoir Effluent S	ite #5 / 18H0078-02	Sampled: 07/31/18 06:40	PS Code:		
01		Water	WTX	ID:	
Methane RSK175	(0)			Report in mg/L	
Containers Supplied:					
40ml Amber Vial (B)	40ml Amber Via	al (C)			

Released By

Date / Time

Received By

Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.: **Date Received:** 18H0078

08/02/18

Matrix:

Water

Reporting Units: mg/L

RSK175

Lab No.:	J08020				
	Reservoir	Effluent			
Client Sample I.D.:	Site	#5/			
	18H00	78-02			
Date/Time Sampled:	7/31/18	3 6:40			
Date/Time Analyzed:	8/2/18	12:36			
QC Batch No.:	1808020	GC8A1			ž.
Analyst Initials:	AS				
Dilution Factor:	1.0	0			
	Result	RL			
ANALYTE	mg/L	mg/L			
Methane	0.072	0.0010			

ND =	Not	Detected	(below	RL)

RL = Reporting Limit

Reviewed/Approved By:	11/10/- 1
	Mark Johnson

Operations Manager

111

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180802GC8A1

Matrix: Air Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD	BLANK		L	CS	LO	CSD				
Date/Time Analyzed:	8/2/18 1	1:42		8/2/18	3 11:29	8/2/18	3 13:27				
Analyst Initials:	AS			A	S	A	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	0.65	0.764	117	0.711	109	7.2	70	130	30.0
											х.

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson
Operations Manager

Date 8/7

The cover letter is an integral part of this analytical report

 $\Lambda_{\Lambda\Lambda_{\Lambda}}$

Chain of Custody |8H0078

Client	City of Lomita	System Number	lumber			Analysis Requested	is Rec	quest	pə				
Address	24373 Walnut Avenue		1910073	73									
ı	Lomita, CA 91717		00161	2				M					
Phone #	(310)903-2243		Destination Laboratory	boratory				eth					
Fax#			[X] Clinical Laboratory	oratory				ane					
Project	Standard Analysis		RWQCB Compliance	liance					00				
Sub Project	CWPF 5th week of July, 2018 Compliance Sampling		yes ELAP#			olved So anganes	olor	ter) (R	dor				
Comments	For TC/EC/BACT see weekly Distro CoC		4000					SKI					
Sampled by	P. M.		1000	•				175)					
Date Time	Sample Identification	Matrix Type	Present	p.H. Temp.	Fotal Chloring							Comments / P.S. Codes	10
7/31/2018 D635	$\partial \epsilon ec{s}_{\mathcal{G}}$ Reservoir Influent Site #3	DW IW	N/A 7,	.8.22 81	かった	7	×	$ \cdot $					
7420018 Mc47	(N) (A) Descensir Efficient Cite #5	WI	δ/ Δ	217760	776	×	×		×				
	Document of the #5	\downarrow	-	7		+	+	>	+	$oldsymbol{1}$			
1 1	OCTO Reservoir entiuent one #5	$\perp \perp$	7					 					
	1							\vdash					
								+					٧
						+			\prod				
						+-							
Preservatives: (1) Na	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO3 (4) NH4Cl	Matrix: DW-Drink	inking Water, W	ing Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	SW-Storm V	Vator, G	W. Gro	und We	ater, A-A	j.		Type- 1-Routine, 2-Repeat, 3-	Repeat, 3-
(5) H2SO4 (6) N					Kepla	comont	4-Spec	cial W.	Replacement, 4-Special W-Well D- Dist.	DISt.			
Relinguished By (Sign)			Da	Date / Time		9	Q	7	2		c	Print Name / Company	
Patrick M	Che. Patrick	7/2	/ 810		ļ.	7	2	7		K	000	My C.L.S.B	
		\$ 71316	1,8		16. CC		The state of the s	4	1	\forall	7	513) 14	
Comments:			Sam	Samples received: ($m{f \chi}$) On ice	il: (太) On i	_	(X) Indiact	, —		Custody seals	seals Temp_	7 ()F (%	C
Shipped Via	Fed X Golden State	UPS Clic	Tient Other	er				Pa	Page_l_of_	$f_{-}I_{-}$			



06 August 2018 Clinical Lab No.: 18H0013

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

Project Name: Standard Analysis

Sub Project: Lomita Distribution Ortho, 5th Week, July 2018

Enclosed are the results of the analyses for samples received at the laboratory on 07/31/18 . 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



Lomita, City ofProject:Standard AnalysisWork Order:18H001324373 Walnut AvenueSub Project:Lomita Distribution Ortho, 5th Week, July 2018Received:07/31/18 15:55Lomita CA, 91717Project Manager:Mark AndersenReported:08/06/18

1948 252nd St.		18H0013-	01 (Water)		Sample Da	ote: 07/31/18	9:00 S	ampler: P.1	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	07/31/18	07/31/18	1831076	
pH (Field)	Field	8.18		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	25.6		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	0.36	0.020	N/A	mg/L	08/01/18	08/01/18	1831085	
Phosphorus (Total as P)	HACH 8190	0.33	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	
24632 S. Moon		18H0013-	02 (Water)		Sample Da	ote: 07/31/18	9:30 S	ampler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.8		N/A	mg/L	07/31/18	07/31/18	1831076	
pH (Field)	Field	8.08		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	26		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	0.38	0.020	N/A	mg/L	08/01/18	08/01/18	1831085	
Phosphorus (Total as P)	HACH 8190	0.34	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	
2450 W. 247th St.		18H0013-	03 (Water)		Sample Da	ote: 07/31/18	9:50 S	ampler: P.	M.
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0.7		N/A	mg/L	07/31/18	07/31/18	1831076	
pH (Field)	Field	7.97		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	27		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	0.45	0.020	N/A	mg/L	08/01/18	08/01/18	1831085	
Phosphorus (Total as P)	HACH 8190	0.35	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	



Lomita, City ofProject:Standard AnalysisWork Order:18H001324373 Walnut AvenueSub Project:Lomita Distribution Ortho, 5th Week, July 2018Received:07/31/18 15:55Lomita CA, 91717Project Manager:Mark AndersenReported:08/06/18

2052 Dawn St.		18H0013-0	04 (Water)		Sample Date: 07/31/18 9:15 Sampler: P.M.					
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier	
Field Analyses										
Cl Res Total (Field)	Field	1.23		N/A	mg/L	07/31/18	07/31/18	1831076		
pH (Field)	Field	8.01		N/A	pH Units	07/31/18	07/31/18	1831076		
Temperature (Field)	Field	28.1		N/A	°C	07/31/18	07/31/18	1831076		
General Chemical Analyses										
Ortho-Phosphate (PO4)	HACH 8048	0.39	0.020	N/A	mg/L	08/01/18	08/01/18	1831085		
Phosphorus (Total as P)	HACH 8190	0.33	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114		
····· (····)										
,		18H0013-0	05 (Water)		Sample Da	te: 07/31/18	3 7:40 Sai	mpler: P.M	М.	
,	Method	18H0013-0	05 (Water) Rep. Limit	MCL	Sample Da	Prepared	3 7:40 San	mpler: P.M	M. Qualifier	
CWPF SP5 Analyte	Method			MCL				r · ·		
CWPF SP5 Analyte	Method Field			MCL N/A				r · ·		
CWPF SP5 Analyte Field Analyses		Result			Units	Prepared	Analyzed	Batch		
CWPF SP5 Analyte Field Analyses Cl Res Total (Field)	Field	Result		N/A	Units mg/L	Prepared 07/31/18	Analyzed 07/31/18	Batch 1831076		
CWPF SP5 Analyte Field Analyses Cl Res Total (Field) pH (Field)	Field Field	3.75 8.21		N/A N/A	Units mg/L pH Units	Prepared 07/31/18 07/31/18	Analyzed 07/31/18 07/31/18	Batch 1831076 1831076		
CWPF SP5 Analyte Field Analyses CI Res Total (Field) pH (Field) Temperature (Field)	Field Field	3.75 8.21		N/A N/A	Units mg/L pH Units	Prepared 07/31/18 07/31/18	Analyzed 07/31/18 07/31/18	Batch 1831076 1831076		

Address Phone #	City of Lomita	Syst	System Number	mber					Ana	Analysis Requested	
Phone #	24373 Walnut Avenue			-	1910073	73					
Phone #	Lomita, CA 91717			-					_		
7 1	(310) 903-2243			Destin	Destination Laboratory	boratory			OR	то	
# XC_	(310) 325-3627			N C	[X] Clinical Laboratory	poratory			ГНС	TAI	
Project	Standard Analysis			RWC	RWQCB Compliance	oliance) PH	, PH	
,	Lomita Distribution Ortho, 5TH Week July,				No				OSP	OSP	
Sub Project	2018				ELAP#	#			PHAT	НАТ	
Comments					1088	~			E	E_	
Sampled by	3										Comments / P.S.
Date Time	Sample Idenitification	Matrix	Type	Preserv	Bottle	Temp.	Chlorine	Hd			Codes
		3	2	1114		0110	7 2	0	×	×	
7/31/2018 67 00 19	1948 252ND ST.	DW	10	NA	0	5000	5 1		;		
	24632 S. MOON	DW	D1	N/A	4	26.0	2.80	8,08	X	X	
1	CO 6 CO 2450 W 247th ST.	DW	DI	N/A	9	27.00	0,70	7.91	×	×	
_	2052 DAWN ST	DW	DI	N/A	7	28.10	1,23	8,0	×	×	
010	AADE CDE	DW	DI	N/A	8	23.50	3.75	8.7		×	
1/21/2018 0 140 CWPT 353											
									-		
HNO3	-O- (2) HCl (3) HNO3 (4) NH4Cl		M	atrix: DW	-Drinking	Water, W	W-Waste	Water, SW.	Storm	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	Water, A-Air
Preservatives: (1) INd25	1 5				ype- 1-Rc	outine, 2-F	Repeat, 3-1	керіасеті	ent, 4-	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.	131.
Dalimanishod By (Sign)	v. (Sign) Print Name / Company	4			O	Date / Time	e			Received by (Sign)	v) Print Name / Company
Patrick Mak	Patrici	omita	7/31/2018	3/// 8	- 1	1				The state of the s	Ublows C. S.
Mr ma De	1) Devane y Lil. 3.1)			Sample	Samples received:	1	On ice	(A) Intact	nct (Custody seals	S Temp
	Office of the Office Office	3011	Cliont		1 Other				2	Page 1 of 1	

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

JULY 2018											
DATE	DAY	METHANE	HANDHELD	COMMENTS							
7/1/2018	Sun	CH4- 3%	Oxy- 20.9%								
7/2/2018	Mon	CH4- 1%	Oxy- 20.9%								
7/3/2018	Tue	CH4- 0%	Oxy- 20.8%								
7/4/2018	Wed			Independence Day							
7/5/2018	Thu	CH4- 2%	Oxy- 20.9%								
7/6/2018	Fri	CH4- 0%	Oxy- 20.7%								
7/7/2018	Sat	CH4- 0%	Oxy- 20.8%								
7/8/2018	Sun	CH4- 1%	Oxy- 20.9%								
7/9/2018	Mon	CH4- 2%	Oxy- 20.9%								
7/10/2018	Tue	CH4- 1%	Oxy- 20.9%								
7/11/2018	Wed	CH4- 2%	Oxy- 20.9%								
7/12/2018	Thu	CH4- 0%	Oxy- 20.8%								
7/13/2018	Fri	CH4- 0%	Oxy- 20.8%								
7/14/2018	Sat	CH4- 0%	Oxy- 20.7%								
7/15/2018	Sun	CH4- 0%	Oxy- 20.9%								
7/16/2018	Mon	CH4- 0%	Oxy- 20.8%								
7/17/2018	Tue	CH4- 0%	Oxy- 20.8%								
7/18/2018	Wed	CH4- 0%	Oxy- 20.9%								
7/19/2018	Thu	CH4- 0%	Oxy- 20.7%								
7/20/2018	Fri	CH4- 0%	Oxy- 20.7%								
7/21/2018	Sat	CH4- 0%	Oxy- 20.8%								
7/22/2018	Sun	CH4- 1%	Oxy- 20.9%								
7/23/2018	Mon	CH4- 1%	Oxy- 20.9%								
7/24/2018	Tue	CH4- 1%	Oxy- 20.9%								
7/25/2018	Wed	CH4- 0%	Oxy- 20.9%								
7/26/2018	Thu	CH4- 0%	Oxy- 20.9%								
7/27/2018	Fri	CH4- 0%	Oxy- 20.8%								
7/28/2018	Sat	CH4- 0%	Oxy- 20.8%								
7/29/2018	Sun	CH4- 0%	Oxy- 20.7%								
7/30/2018	Mon	CH4- 0%	Оху- 20.9%								
7/31/2018	Tue	CH4- 0%	Оху- 20.9%								

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: July 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
U	nits/O	thers ->		MM/DD/YYYY	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/mi		
1	D	\$13-003	1948 W 252nd St	7/3/2018	22.5	8.05	3.10	0.06	0.58	0.02	800:0	ND	Α	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/3/2018	22.1	7.97	2.90	0.07	0.51 🙈	0.08	0.009 🤝	ND	Α	2	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	7/3/2018	22.6	7.96	3.40	0.05	0.60	0.00	0.008	ND	Α	ND	1_	Well/MWD Blend _
4	D	A	2052 Dawn St	7/3/2018	24.2	7.94	1.66	0.03	0.39	○ 0:06	0.011	0.4	A	2	1	Well/MWD Blend
5	D		Reservoir SP5	7/3/2018	21.1	8.06	3.33	0.03	0.64	0.00	0.005	ND	Α	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/3/2018	21.1	8.47	2.20	0.02	0.47	0.10	0.009	ND	A	ND	2_	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	7/3/2018	20.2	8.46	2.30	0.02	0.47	0.05	0.004	ND	Α .	ND	3	MWD Only
8	Ð	S13-005	2500 PCH	7/3/2018	20.6	8.46	2.40	0.03	0.48	0.01	0.013	ND	Α	ND	2	MWD Only
		C40.000	4040111050-101	3/40/2040	24.4	0.05	3,30	0.12	0.60	0.05	0.005	ND	A	1	1	Well/MWD Blend
1 2	D D	S13-003 S13-004	1948 W 252nd St 24632 S Moon Ave	7/10/2018 7/10/2018	24.4	8.05 7.94	2.90	0.12	0.50	0.05	0.003	ND ND	A	ND	1	Well/MWD Blend
3	D	S13-004 S13-008	25417 Pennsylvania Ave	7/10/2018	25.8	7.94	3.50	0.10	0.60	0.10	0.013	ND	A	ND	1	Well/MWD Blend
4	D	A A	2052 Dawn St	7/10/2018	26.1	7.92	1.27	0.10	0.36	0.16	0.013	ND	Â	ND	1	Well/MWD Blend
5	D		Reservoir SP5	7/10/2018	23.3	7.86	3.59	0.06	0.62	0.02	0.008	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/10/2018	24.3	8.45	2.30	0.08	0.49	0.08	0.008	ND	A	ND	2	MWD Only
7	Ď	\$13-002	26314 S Monte Vista Ave	7/10/2018	23.3	8.48	2,40	0.08	0.47	0.10	0.006	ND	A	ND	3	MWD Only
8	D		2500 PCH	7/10/2018	24.6	8.41	2.30	0.07	0.45	0.10	0.012	ND	A	ND	2	MWD Only
		010 000		7,10,100						NAC TOWNER OF STREET	N. C.					
1	D	S13-003	1948 W 252nd St	7/17/2018	24.1	8.04	2.90	0.12	0.55	0:07	0.003	ND	Α	2	1	Well/MWD Blend
2	D	513-004	24632 S Moon Ave	7/17/2018	24.0	8.05	2.70	0.09	0.45	0.08	0.016	ND	Α	130	1	Well/MWD Blend
3	Đ	S13-008	25417 Pennsylvania Ave	7/17/2018	25.6	8.00	3.20	0.10	0.57	0.01	0.011	ND	Α	2	1	Well/MWD Blend
4	D	Α	2052 Dawn St	7/17/2018	24.8	7.93	1.20	0.07	0.32	0:15	0.033	ND	_ A	20	1	Well/MWD Blend
5	D		Reservoir SP5	7/17/2018	23.6	8.04	3.30	0.07	· 0.59	0.02	0.004	ND	A	1	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/17/2018	24.0	8.12	2.20	0.03	0.54	90.03	0.012	ND	A	ND	2	MWD Only
7	D		26314 S Monte Vista Ave	7/17/2018	23.0	8.36	2.10	0.03	0.52	0.04	- 0.007	ND	Α _	ND	3	MWD Only
8	D	S13-005	2500 PCH	7/17/2018	24.6	8.34	2.10	0.08	0.49	0.07	0.027	ND	Α	ND	2	MWD Only
				1					access on the Contract of the Contract	Level State - Zamere - was						
1	D	S13-003	1948 W 252nd St	7/24/2018	25.6	8.02	3.10	0.12	0.57	0.02	-0.008	ND	Α	ND n	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/24/2018	25.1	7.98	2.40	0.06	0.48	0.10	0.012	ND	A	3 30	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	7/24/2018	26.7	8.01	3.00	0.10	0.59	0.02	0.007	ND ND	A	30 	1	Well/MWD Blend Well/MWD Blend
1	D D	Α	2052 Dawn St Reservoir SP5	7/24/2018	27.0 24.6	7.91 8.02	0.78 3.80	0.05 0.04	0.33 0.62	0.15 0.00	0.035 0.006	ND ND	A	ND ND		Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/24/2018 7/24/2018	25.7	8.41	2.40	0.04	0.51	0.08	0.008	ND	A	ND ND	_	MWD Only
밁	D	S13-001 S13-002	26314 S Monte Vista Ave	7/24/2018	24.9	8,44	2.40	0.03	0.50	0.10	0.006	ND	Â	ND		MWD Only
8			2500 PCH	7/24/2018	25.8	8.40	2.30	0.09	0.46	0.04	0.009	ND	A	ND ND		MWD Only
ΓοΙ	ا د	313-003	2300 FCI1	7/24/2018	ب ب	8.40	2.50	0.03	- 100 100 100 100 100 100 100 100 100 10	E week to the second	36688600			112		(MATO CITY)
1	D	S13-003	1948 W 252nd St	7/31/2018	25.6	8.18	3.30	0.06	0.72	0.07	0.006	-	А	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/31/2018	26.0	8.08	2.80	0.05	0.60	0.10	0.010	-	A	16	1	Well/MWD Blend
3	D		25417 Pennsylvania Ave	7/31/2018	27.5	8.10	3.10	0.07	0.64	0.05	0.011	-	Α	1	1	Weil/MWD Blend
4	D		2052 Dawn St	7/31/2018	28.1	8.01	1.23	0.02	0.42	0.19	0:046	-	Α	15	1	Well/MWD Blend
5	D		Reservoir	7/31/2018	23.5	8.21	3.75	0.06	0.66	0.00	0.007	-	Α	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/31/2018	25.6	8.45	2.40	0.06	0.48	0:09	0.010	-	Α	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	7/31/2018	24.5	8.46	2.30	0.05	0.52	0:00	0.006,		Α	ND	3	MWD Only
8	D	S13-005	2500 PCH	7/31/2018	26.5	8.38	2.80	0.00	0.47	0.20	0,022	-	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.

^aThe City is monitoring trends of Nitrite in Zone I, in accordance with the Nitrification Monitoring Plan. Hydrant flushing has been implemented.