CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report JUNE 2016

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CITY COUNCIL

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



ADMINISTRATION

RYAN SMOOT CITY MANAGER

CITY OF LOMITA

July 11, 2016

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

<u>Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility</u> (CWPF) for the period of June 1 through June 30, 2016.

Dear Mr. Williams,

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

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

Sincerely,

2,

Mark A. McAvoy, P.E. Public Works Director/City Engineer

A. BACKGROUND

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

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

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

B. WELL PRODUCTION AND OPERATIONS

The CWPF operated continuously for 21 days during the month of June 2016 maintaining water levels ranging from 7' to 10'. The average flow from Well No. 5 was 445 gpm and 550 gpm from MWD. The blend ratio for the month was on average 42% Well water and 58% MWD water. See Table 1 below for production totals for the month of June 2016.

		Productio	on for June 2016
Well No. 5	36.14	ac-ft	(11,774,006 gallons)
MWD	48.93	ac-ft	(15,941,990 gallons)
Combined Total	85.07	ac-ft	(27,715,996 gallons)
Daily	4.05	ac-ft/day	(1,319,809 gallons/day)

Table 1. Monthly Production Totals.

C. OPERATIONAL INTERRUPTIONS

The CWPF remained isolated until June 10, 2016. During the isolation period disinfection of the reservoir, SCADA maintenance and electrical upgrades were performed. MWD supplied Zone I up until June 10, 2016. No major planned operational interruptions are anticipated for the following month.

D. SAMPLE LOCATIONS

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

E. WATER QUALITY MONITORING

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

E1. IRON, MANGANESE AND COLOR

See Table 2 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color for raw water (SP1) was at the MCL. Iron in the raw water (SP1) for the month was below the MCL. Manganese concentration in the raw water (SP1) was above the MCL. Iron and Manganese levels entering the reservoir (SP3) show non-detect, indicating the greensand filtration system remains highly effective. Other additional bacteriological laboratory samples collected included Total Coliform and Heterotrophic Plate Count (HPC) levels on the effluent side of the greensand filter (SP2) showing absent for both.

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 682 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 690 mg/L and 700 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 295 mg/L. Although, this hardness level is in the upper range of the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the

water distribution system. The City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

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

E3-3 DISSOLVED METHANE (IN WATER)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.34 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 June 2016 in Appendix B.

E4. NITRIFICATION MONITORING

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

F. TABLES

	SP1, Well Raw Water Discharge							SP2, Combined Pressure Filter Effluent			SP3, After chloramination static mixer; reservoir entry					
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
6/1/2016	270	300	93	50	15	15	А	А	A	500	ND	300	ND	50	ND	15
6/8/2016				-							ND	300	ND	50	ND	15
6/15/2016						a C					ND	300	ND	50	ND	15
6/22/2016		20 									ND	300	ND	50	ND	15
6/29/2016											ND	300	ND	50	ND	15

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

Notes: Monthly- <u>Orange;</u> Weekly- <u>Yellow</u> 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.

	SP2		SP3			SP4		SP5			
Date, week of	Free CI	Free CI	Total Cl	Total NH ₃	Free CI	Total CI	Total NH ₃	Free CI	Total CI	Total NH ₃	
6/1/2016	-	-	-	-	-	-	-	-	24	-	
6/8/2016	4.83	0.49	. .	1.51	0.21	3.20	0.62	0.06	2.29	0.58	
6/15/2016	5.54	0.46	4.08	0.58	0.29	3.41	0.62	0.06	2.69	0.62	
6/22/2016	6.67	0.42	4.51	0.60	0.33	3.09	0.56	0.08	2.66	0.54	
6/29/2016	6.21	1.10	4.06	0.65	0.40	3.33	0.57	0.06	2.55	0.54	

Note:

The CWPF was offline during the first week of June 2016 and put back online on June 10, 2016.

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

		TD	S, mg/L		T.C).N.		Hardn	iess, mç	g/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
6/1/2016	690	700	690	500-750	1	3	310	310	310	180-250	4.5	0.25
6/8/2016			700	500-750	1	3		-				0.18
6/15/2016			690	500-750	1	3			300	180-250		0.37
6/22/2016			690	500-750	1	3			280	180-250		0.54
6/29/2016			640	500-750	1	3			290	180-250		0.37
Average			682	500-750	1	3			295	180-250		0.34

Notes:

Monthly- <u>Orange;</u> Weekly- <u>Yellow</u> ppm – parts per million mg/L – milligram per liter T.O.N. - Threshold Odor Number TDS - Total Dissolved Solids Hardness - As total CaCO3 Methane (Water) - Methane dissolved in water

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

•••••		NAME AND ADDRESS OF TAXABLE PARTY.	Of Lomita	a; System	NO. 19100	13		
Sample Locations	Frequency	MCL/	6/1	6/8	6/15	6/22	6/29	Comments
and Parameters		Goal	1stWk	2 nd Wk	3rdWk	4 th Wk	5 th Wk	and/or
				-				Other Info.
			or Mo.					
			Result					
		L	(date)					
SP1 Also called			т					
TDS, ppm	Monthly	See SP5	690	Operations	Data/Inforr	nation:		*Chlorine injected after SP1, before entering
Hardness	Monthly	See SP5	310			0 days (21 fill	days; 0 draw	the greensand filter.
CH4, ppm	Monthly	See SP5	4.5	days; 9 isolat		flaur 115 ann		nonnou de Englis d'Alexandra (Calendra) (Calendra (Calendra)
Iron, ppb	Monthly	See SP3	270		od. – <mark>36.14</mark> AF	flow - <mark>445</mark> gpm	I; JUNE	
Manganese, ppb	Monthly	See SP3	93	Combined V	Vell 5/MWD da	ata: Average V	Vell 5: MWD	
Color, units	Monthly	See SP3	15			JNE 2016 total	prod <mark>85.07</mark>	
Total Coliform, P or A	Monthly	A		AF, Combine	d Daily prod	4.05 AF		
	,		Α	Chlorine Do	sage: N/A*			
SP2 Also called	Filter Efflu	ent or Si	te#3.			1918-1919-1918-1918-1918-1918-1918-1918		
Total Coliform, P or A	Monthly	А	A			internet and the second se		*Ammonia added after
HPC,MPN/100 ml	Monthly	500	А	Ammonia D	osage: N/A*			filter effluent
Free CI Res, ppm	Continuous	Average	: 5.81; Ran	ge: 4.83 – 6	.67			
SP3 Also called	the Site Af	ter Chlor	raminatio	n & Before	MWD Ble	ending or	Site#4.	
Iron, ppb	Weekly	300	ND	ND	ND	ND	ND	
Manganese, ppb	Weekly	50	ND	ND	ND	ND	ND	
Color	Weekly	15	ND	ND	ND	ND	ND	
Free and Total CI Res,	Continuous			2; Range: 0.				
ppm				1; Range: 4				
<u> </u>	<u> </u>			61; Range:				
SP4 Also called	Reservoir		the second s	the second s	ND Water	Blend Po	int/Phosp	hate Injection.
Phosphate Injection	Continuous	NAME AND ADDRESS OF TAXABLE PARTY.	e Dosage: 0	And in case of the local division of the loc	04 0.40	- Schonnelautolariae cara		
Free and Total CI Res,	continuous			1; Range: 0. 6; Range: 3				CI/NH3 Ratio: 5.49,
ppm				59; Range:				chloramintaed water
	<u> </u>			1 10 0 10				into the Reservoir
SP5 Also called			or Site#5.	SP5 disc	harges in	to Zone 1	of the dis	tribution system.
TDS, ppm	Weekly	SI Goal: 500-750ppm	690	700	690	690	640	
Hardness	Monthly	SI Goal:	310		300	280	290	
CH4, ppm	Weekly	180-250ppm Goal: from						% CH4 Removal:
orri, ppm	(reently	PA	0.25	0.18	0.37	0.54	0.37	92%
Odor, units	Monthly	1	1	1	1	1	1	
Free and Total CI Res,	Continuous			6; Range: 0.				CI/NH3 Ratio:
ppm				5; Range: 2				4.46, chloraminated water
		Ammonia	: Average: 0	.57; Range:	0.54 - 0.62			supplied Zone I
Headspace of the (Cypress Re	servoir.	 Homesseenserverseenserverseense 				alah desambanya desambata	
¹ CH4 ppmv; using	Daily	Goal -	CH4 Aver	age: 0.29%				
Portable Device	(from log)	LEL		ge: 0% - 1%	, D			
SP 6 MWD Sour	ce Feeding	CWPF	THE REAL PROPERTY AND ADDRESS OF THE PARTY O	Contraction of the local division of the loc	COLUMN TWO IS NOT THE OWNER.	ribution s	vstem or s	Site #6.
TDS, ppm	Monthly		700					
Hardness	Monthly		310					
Notes: ¹ Self-Imposed (SI) G		500 750 mm	1.071 (0.072)		1 100 050 -			
***This Report is du						н.		
		by the It	o or the l	Unowing I	nonui.			

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

APPENDIX A

LABORATORY RESULTS



16 June 2016

Clinical Lab No.: 16F0348

Client User Lomita, City of 24373 Walnut Avenue Lomita, CA 91717

Project Name:Standard AnalysisSub Project:Monthly Compliance/Weekly 1st week of June

Enclosed are the results of the analyses for samples received at the laboratory on 06/01/16. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Pamela Ybana

Pamela Ybarra For Stu Styles Client Services Manager



Lomita, City of 24373 Walnut Avenue Lomita CA, 91717		Project: Star b Project: Mon Manager: Clie	une	Work Order: 16F0348 Received: 06/01/16 16:30 Reported: 06/16/16					
Raw Water Site #1		16F0348-0)1 (Water)		Sample Da	te: 06/01/16	7:20 S	Sampler: I	D G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
pH (Field)	Field	7.66		N/A	pH Units	06/01/16	06/01/16	1623363	
Temperature (Field)	Field	18.8		N/A	°C	06/01/16	06/01/16	1623363	
Microbiology Analyses									
Total Coliform	SM 9223	А		N/A	P/A	06/01/16	06/02/16	1623391	
E. Coli	SM 9223	А		N/A	P/A	06/01/16	06/02/16	1623391	
Plate Count	SM9215B	ND	1	500	CFU/ml	06/01/16	06/03/16	1624005	HT-08
General Physical Analyses									
Apparent Color	SM 2120B	15.0	3.0	15	Color Units	06/01/16	06/01/16	1623266	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	310	6.6	N/A	mg/L	06/08/16	06/08/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	06/07/16	06/08/16	1623309	
Metals									
Calcium (Ca)	EPA 200.7	81	1.0	N/A	mg/L	06/08/16	06/08/16	1624220	
Iron (Fe)	EPA 200.7	270	100	300	ug/L	06/08/16	06/09/16	1624252	
Magnesium (Mg)	EPA 200.7	26	1.0	N/A	mg/L	06/08/16	06/08/16	1624220	
Manganese (Mn)	EPA 200.7	93	20	50	ug/L	06/08/16	06/09/16	1624252	
Filter Effluent (Free Chlorine) Site #2		16F0348-0	02 (Water)		Sample Da	te: 06/01/16	0:00 S	Sampler: I	O G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	5.45		N/A	mg/L	06/01/16	06/01/16	1623376	
pH (Field)	Field	7.78		N/A	pH Units	06/01/16	06/01/16	1623363	
Temperature (Field)	Field	19.6		N/A	°C	06/01/16	06/01/16	1623363	
Microbiology Analyses									
Total Coliform	SM 9223	А		N/A	P/A	06/01/16	06/02/16	1623391	
E. Coli	SM 9223	А		N/A	P/A	06/01/16	06/02/16	1623391	
Plate Count	SM9215B	ND	1	500	CFU/ml	06/01/16	06/03/16	1624005	HT-08



Lomita, City of		0		Work Order: 16F0348								
24373 Walnut Avenue Lomita CA, 91717			Manager: Clie		npliance/ Week	ly 1st week of J			06/01/16 16:30 06/16/16			
	riget Manager. Chert oser											
Filter Effluent (Total Chlorine) Site #3	16F0348-03 (Water)				Sample Da	te: 06/01/16	7:30 Sa	ampler: D	GM			
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier			
Field Analyses												
Cl Res Total (Field)	Field	4		N/A	mg/L	06/01/16	06/01/16	1623376				
pH (Field)	Field	7.74		N/A	pH Units	06/01/16	06/01/16	1623363				
Temperature (Field)	Field	20.9		N/A	°C	06/01/16	06/01/16	1623363				
General Physical Analyses												
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/01/16	06/01/16	1623266				
Metals												
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/03/16	06/07/16	1623383				
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/03/16	06/07/16	1623383				
Zone #2 Site #6		16F0348-()4 (Water)		Sample Da	te: 06/01/16	7:10 Sa	ampler: D	GM			
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier			
Field Analyses												
Cl Res Total (Field)	Field	2.21		N/A	mg/L	06/01/16	06/01/16	1623376				
pH (Field)	Field	7.86		N/A	pH Units	06/01/16	06/01/16	1623363				
Temperature (Field)	Field	19.8		N/A	°C	06/01/16	06/01/16	1623363				
General Chemical Analyses												
Hardness, Total (as CaCO3)	Calculated	310	6.6	N/A	mg/L	06/08/16	06/08/16	[CALC]				
Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	06/07/16	06/08/16	1623309				
Metals												
Calcium (Ca)	EPA 200.7	82	1.0	N/A	mg/L	06/08/16	06/08/16	1624220				



Lomita, City of 24373 Walnut Avenue Lomita CA, 91717		Work Order: 16F0348 Received: 06/01/16 16:30 Reported: 06/16/16							
Reservoir Effluent Site #5		16F0348-(05 (Water)		Sample Da	te: 06/01/10	5 7:00 S	Sampler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0.2		N/A	mg/L	06/01/16	06/01/16	1623376	
pH (Field)	Field	7.26		N/A	pH Units	06/01/16	06/01/16	1623363	
Temperature (Field)	Field	19.6		N/A	°C	06/01/16	06/01/16	1623363	
General Physical Analyses									
Odor Threshold	EPA 140.1M	1	1	3	TON	06/01/16	06/01/16	1623266	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	310	6.6	N/A	mg/L	06/08/16	06/08/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	06/07/16	06/08/16	1623309	
Metals									
Calcium (Ca)	EPA 200.7	78	1.0	N/A	mg/L	06/08/16	06/08/16	1624220	
Magnesium (Mg)	EPA 200.7	28	1.0	N/A	mg/L	06/08/16	06/08/16	1624220	

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



Certificate of Analysis

Analytical Laboratory Service - Since 1964

Project: 16F0348

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/6/2016 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F06020-01 Sampled by: Client	Sample ID: Raw Water Site #1/ 16F0348-01 Sampled: 06/01/16 07:20							Matrix: Water		
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane		0.024	0.20	mg/l	20	RSK-175	6/9/16	6/9/16 19:28	W6F0562	
Lab ID: 6F06020-02	Sample	ID: E	Effluent Sit	e #5/ 16F03	48-05				Ма	trix: Water
Sampled by: Client	Sampled	l: 06/01/*	16 07:00							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.25	0.0012	0.010	mg/l	1	RSK-175	6/9/16	6/9/16 19:48	W6F0562	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

atch W6F0562 - RSK-175									
Blank (W6F0562-BLK1)					Prepared: 06	/09/16 An	alyzed: 06/09	9/16 18:28	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W6F0562-BS1)					Prepared: 06	/09/16 An	alyzed: 06/09	9/16 17:29	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.185		mg/l	0.198	93	85-115		
Duplicate (W6F0562-DUP1)	S	ource: 6F0602	0-02		Prepared: 06	/09/16 An	alyzed: 06/10	0/16 10:37	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.253	0.266		mg/l				5	20



Page 3 of 3

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

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

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

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

(MDL) is reported, then not

6F06020

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Clinical Laboratory of San Bernardino

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		RECEIVING LA	BORATORY:	
Clinical Laboratory of San Be	ernardino	Weck Lab, Anal	vtical & Environmental	
21881 Barton Road		Analytical & En	vironmental Svc 14859 E Clark Ave	
Grand Terrace, CA 92313		Industry, CA 91	745	
Phone: 909.825.7693		Phone :(626) 33	5-2139	
Fax: 909.825.7696		Fax: (626) 336-2	634	
Project Manager: Stu Styles				
Please email results to Project [] glaubig@clinical-lab.com		com [y styles@clinical-	ab.com [] nelson@clinical-lab.com	
	er those samples with PS co d; log in with Element ID or			, * -
Turn Around Time [] 1 Subcontract Comments:	0 Days [🖌 5 Days []	Other Days		
	С.,			
Analysis			Comments	
Sample ID: Raw Water Site #1	/ 16F0348-01	Sampled: 06/01/16 07:20		
		Water	WTX ID:	
Methane RSK175			Report in mg/L	
Containers Supplied:				
Somumers Supplied.				
OmL Amber Vial w/ Na2S2O3	(B) 40mL Amber	Vial w/ Na2S2O3 (C)	· · · · · · · · · · · · · · · · · · ·	
		Sampled: 06/01/16 07:00		<u></u>
0mL Amber Vial w/ Na2S2O3	Site #5 / 16F0348-05		PS Code: WTX ID:	<u>.</u>
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent	Site #5 / 16F0348-05	Sampled: 06/01/16 07:00		
0mL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent	Site #5 / 16F0348-05	Sampled: 06/01/16 07:00	WTX ID:	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175	Site #5 / 16F0348-05	Sampled: 06/01/16 07:00 Water	WTX ID:	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID:	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID:	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID:	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID:	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	3
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	205
OmL Amber Vial w/ Na2S2O3 Sample ID: Reservoir Effluent Methane RSK175 Containers Supplied: Oml Amber Vial (B)	Site #5 / 16F0348-05 40ml Amber V	Sampled: 06/01/16 07:00 Water Vial (C)	WTX ID: Report in mg/L	<u>2.8</u> ¢

Comments / P.S. Codes 6.6 PH 7, 75 TEMP 19.6 PH 7, 26 TEMP 19,0 J. Lucon/USB PH 7,66 TEMP 18.8 Print Name / Company PH 7.74 TEMP 20,9 ILOFO348 Chain of Custody Custody seals Temp **fO** PH 7,86 TEMP Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Page_1_ of_1 Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. 2 × × × Hardness × × Methane (WATER) (RSK175) ĕ × Odor Received By (Sign) On ice () Intakt 2[3] × × Color) F Analysis Requested × × **Hetetrophic Plate Count** × 2 **Total Coliform** × × E. Coli × × Iron & Manganese Total Dissolved Solids / 1 × Samples received:**T** Other 5,45 112:30 N QQ タン 200 Total Chlorin 2.21 630 Date / Time Destination Laboratory [X] Clinical Laboratory . RWQCB Compliance 1910073 || Client Preserv System Number YES ELAP # N/AN/AN/A **N/A** 1088 2,7 1,7 1,7 2,7 6/1/2016 Type Ē 3 ž 2 3 2 <u>=</u> Sd() | | Matrix TURNED WELL CNFOR SPIJSP2 +5P G₹ S 0 § ΝQ ΝC ΜŪ GW N Q NO N Clinical Laboratory of San Bernardino, Inc. Print Name / Company City of Lomita, CA | Fed X | | Golden State Monthly Compliance/ Weekly 1st week Filter Effluent (Total Chlorine) Site#3 RES. OFF LINE/ON MUD Filter Effluent (Free Chlorine) Site#2 Sample Idenitification SAMPLES PUMP TO WASTE **Reservoir Effluent Site #5 Reservoir Effluent Site #5** 24373 Walnut Avenue Lomita, CA 91717 Standard Analysis Raw Water Site #1 Raw Water Site #1 Raw Water Site #1 City of Lomita (310) 325-3627 (310) 325-9830 Zone #2 Site #6 * per containers Preservatives: (1) Na₂S₂O₃ (2) HCI (3) HNO3 (4) NH4CI June NGM (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other Relinquished By (Sign) (uppl) 10330 6/1/2016 \$ 0700 0260 \$ 9102/1/9. 0160 6/1/2016 \$ 0700 0730 6/1/2016 🛧 0.720 Time *0720 Comments: Sub Project Sampled by Daniel Mateik Comments 6/1/2016 6/1/2016 6/1/2016 6/1/2016 Shipped Via Address Phone # Date Project Client Fax #

"Your Water and Wastewater Analysis Solution"



28 June 2016

Clinical Lab No.: 16F1077

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

Project Name:Standard AnalysisSub Project:CWPF Weekly Compliance Analysis 2nd week June

Enclosed are the results of the analyses for samples received at the laboratory on 06/10/16. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



Lomita, City of			Project: Star	ndard Ana	lysis			Work Order:	16F1077
24373 Walnut Avenue		Su	ıb Project: CW	PF Week	y Compliance	Analysis 2nd	week June		06/10/16 15:15
Lomita CA, 91717		Project	Manager: Mar	k Anders	en			Reported:	06/28/16
Filter Effluent (Total Chlorine) Site#3		16F1077-()1 (Water)		Sample Da	te: 06/10/16	10:55 S	Sampler: D	O G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0.66		N/A	mg/L	06/10/16	06/10/16	1625047	
pH (Field)	Field	7.69		N/A	pH Units	06/10/16	06/10/16	1625047	
Temperature (Field)	Field	22.1		N/A	°C	06/10/16	06/10/16	1625047	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/10/16	06/10/16	1625058	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/23/16	06/24/16	1626343	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/23/16	06/24/16	1626343	
Reservoir Effluent Site #5		16F1077-(02 (Water)		Sample Da	te: 06/10/16	10:45 S	Sampler: D	O G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.21		N/A	mg/L	06/10/16	06/10/16	1625047	
pH (Field)	Field	8.16		N/A	pH Units	06/10/16	06/10/16	1625047	
Temperature (Field)	Field	21.3		N/A	°C	06/10/16	06/10/16	1625047	
General Physical Analyses									
Odor Threshold	EPA 140.1M	1	1	3	TON	06/10/16	06/10/16	1625058	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	06/16/16	06/17/16	1625357	
ND Analyte NOT DETECTED at or above	the reporting limit	t							

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc. EDT Transfer Confirmation 1



Work Order: 16F1077 Report Date: 06/28/2016 Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User	ID: 4TH		Syst	em: 19	10073	
WELL 05 TREATMENT PLANT EFFLUENT		Station No.	: 1910073	-006		Sar	mpled: 160610	10:55
COLOR	Result: ND	Units:	UNITS	Entry	No.:	00081	Analyzed:	160610
IRON	Result: ND	Units:	UG/L	Entry	No.:	01045	Analyzed:	160624
MANGANESE	Result: ND	Units:	UG/L	Entry	No.:	01055	Analyzed:	160624

Printed: 06/28/2016 02:14:17 PM Results of 16F1077 FINAL WRITEON 1910073-006 Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088



Certificate of Analysis

Analytical Laboratory Service - Since 1964

Attn: John Styles

Project: 16F1077

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/13/2016 with the Chain of Custody document. The samples were received in good condition, at 2.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F13013-01 Sampled by: Client	Sample Sample	ID: F d: 06/10/1		Effluent Site	e #5/ 16F	1077-02			Ma	atrix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.18	0.0012	0.010	mg/l	1	RSK-175	6/16/16	6/16/16 13:36	W6F0920	

6F13013



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

atch W6F0920 - RSK-175									
Blank (W6F0920-BLK1)					Prepared: 06	/16/16 Ana	alyzed: 06/16	5/16 13:16	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W6F0920-BS1)					Prepared: 06	/16/16 Ana	alyzed: 06/16	5/16 12:56	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.196		mg/l	0.198	99	85-115		
Duplicate (W6F0920-DUP1)	s	ource: 6F1301	3-01		Prepared: 06	/16/16 Ana	alyzed: 06/16	5/16 13:55	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.184	0.167		mg/l				10	20



Page 3 of 3

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

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

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

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

(MDL) is reported, then not

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

1	6F	1	A	7	7
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6F13013

SENDING LABORATORY:		RECEIVING LABORATORY:
Clinical Laboratory of San Be	rnardino	Weck Lab, Analytical & Environmental
21881 Barton Road		Analytical & Environmental Svc 14859 E Clark Ave
Grand Terrace, CA 92313 Phone: 909.825.7693		Industry, CA 91745
Fax: 909.825.7696		Phone :(626) 336-2139 Fax: (626) 336-2634
Project Manager: Stu Styles		Fax. (020) 330-2034
Please email results to Project [] glaubig@clinical-lab.com	Manager: Stu Styles [] ybarra@clinical-lab.con	n [] styles@clinical-lab.com [] nelson@clinical-lab.com
	r those samples with PS codes ; log in with Element ID only	s provided [] Yes [√],No
Turn Around Time [] 10 Subcontract Comments:) Days 🚺 5 Days [] Of	ther Days
Analysis		Comments
Sample ID: Reservoir Effluent		Sampled: 06/10/16 10:45 PS Code: Water WTX ID:
· ·		
Methane RSK175		Report in mg/L
Containers Supplied:		
10mL Amber Vial HCl (B)	40mL Amber Via	al HCl (C)
		÷
· · · · · · · · · · ·		a second a s
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*		
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BJ Sty	06/10/16 17:00 Date/Time	(100 Mapano 6/13/16 9,
Lan hapan	100 6/13/16 N	$\begin{array}{c} \text{Received By} \\ 038 \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c} \text{Date / Time} \\ \hline \\ 6 \\ \hline \\ 13 \\ 11 \\ 1038 \\ \end{array} \\ \hline $ \\ \hline } \\ \hline \end{array} \\ \hline \\ \hline
Released By	Date / Time	Received By Date / Time

Client			City of Lomita	Sy	stem N	System Number	•	Ana	Analvsis	Reavested	sted					
Address		7	24373 Walnut Avenue						,	-						
			Lomita, CA 91717	4	ואן	19100/3	Ŋ		******				N	_		
Phone #			(310) 325-9830		stinatio	Destination Laboratory	atorv				Н		leth			
Fax #			(310) 325-3627	d	1 Clinica	[X] Clinical Laboratory	atorv				etet		nano 		0 2 2	
Project			Standard Analysis	. 4	WQCB	RWQCB Compliance	nce			anto call calculat	trop		e (W	inin ne. vite		
Sub Project	*	CWPF W	CWPF Weekly Compliance Analysis 2nd week June			YES ELAP#		Iron		al Colif issolve	hic Pla	Color	ATER Odor			
Comments											te Co		.) (R			
Sampled by	Ŷ		DGM		PER-OR	1088			us		ount		SK17			
Date	Time	Š	Sample Identification	Matrix	Type	Preserv	Total Chlorine						5)		Comments / D S. Co	Codec
na datan da manda Aikin Jawa Mandalan Aiking na			Raw Water Site #1	GW	NI NI	NA)		200
			Raw Water Site #1	GW	1W	2,7									ne na versi de anticio - la forma a la conte monte monte en successo de la conte	
														CONTUNE OF A CONTU	An and an and a second s	
		Filter El	Filter Effluent (Free Chlorine) Site#2	DW	WI	1.7				ļ						
91-91-9	1055	Filter Efi	Filter Effluent (Total Chlorine) Site#3	MQ	<u>×</u>	V/V	. 46	×	×			×		24 7 42	Curt 12	27.1
01-01-0	1045	Re	Reservoir Effluent Site #5	MQ	9	N/A	7.71		×				×	2114		
N	1/	Re	Reservoir Effluent Site #5	DW	9	2,7			+	+			X	14 0.10		512
			Zone #2 Site #6	MO	Ē	VIN										
reservatives	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3	(2) HCI (3) HI	NO3 (4) NH4CI		Matrix-1	DW-Drint	king Water		1 0,00							
(5) H2SC	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other	1 (7) Cold (8) (<u>ار</u> ا			Type-	Type- 1-Routine, 2	, www-waste water, SW-Storm Water, 2-Repeat, 3-Replacement, 4-Special	aste v at, 3-R	vater, : eplace	ment,	orm Wč 4-Spec	iter, G Sial W	GW- Ground W W-Well D- Dist.	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.	
Relinç	Relinquished By (Sign)	(Sign)	Print Name / Company			Date /	Time (1	Received By (Sign)	d By	(Sign)		Print	Print Name / Company	Au
DGM R.	y matuk	rik	City of Lomita	~~~	6/10/2016	16	11.1	<u>-</u> У	٤	ð	5			Ŭ	í sr	
X	m cu		CLSB		1011	ما	3115	•	$\langle \rangle$					Anni	AMOMMONDO CLSR	q
Comments:	:0						Samples received: (X) Temn	eceiv.	ed: X Temn	0 ()	On ice	18	✓ Intact			
Shipped Via			1 Fod Y Goldon State	Darri					•			~ 	-	>		

"Your Water and Wastewater Analysis Solution"

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30 June 2016

Clinical Lab No.: 16F1481

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

Project Name:Standard AnalysisSub Project:CWPF 3rd Week June Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 06/15/16. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



Lomita, City of 24373 Walnut Avenue Lomita CA, 91717		Project: Standard Analysis Sub Project: CWPF 3rd Week June Compliance Sampling Project Manager: Mark Andersen										
Reservoir Influent Site #3		16F1481-0	1 (Water)		Sample Dat	e: 06/15/16	8:45	Sampler: D	OGM			
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier			
Field Analyses												
Cl Res Total (Field)	Field	4		N/A	mg/L	06/15/16	06/15/16	1625393				
pH (Field)	Field	7.71		N/A	pH Units	06/15/16	06/15/16	1625393				
Temperature (Field)	Field	21.6		N/A	°C	06/15/16	06/15/16	1625393				
General Physical Analyses												
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/15/16	06/15/16	1625431				
Metals												
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/29/16	06/29/16	1627154				
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/29/16	06/29/16	1627154				
Reservoir Effluent Site #5		16F1481-0	2 (Water)		Sample Dat	e: 06/15/16	8:30	Sampler: D	OGM			
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier			
Field Analyses												
Cl Res Total (Field)	Field	2.42		N/A	mg/L	06/15/16	06/15/16	1625393				
Cl Res Total (Field) pH (Field)	Field Field	2.42 8.04		N/A N/A	mg/L pH Units	06/15/16 06/15/16	06/15/16 06/15/16					
					e			1625393				
pH (Field) Temperature (Field)	Field	8.04		N/A	pH Units	06/15/16	06/15/16	1625393				
pH (Field)	Field	8.04	1	N/A	pH Units	06/15/16	06/15/16	1625393 1625393				
pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold	Field Field	8.04 21.3	1	N/A N/A	pH Units °C	06/15/16 06/15/16	06/15/16 06/15/16	1625393 1625393				
pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold	Field Field	8.04 21.3	1 6.6	N/A N/A	pH Units °C	06/15/16 06/15/16	06/15/16 06/15/16	1625393 1625393				
pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u>	Field Field EPA 140.1M	8.04 21.3 1		N/A N/A	pH Units °C TON	06/15/16 06/15/16 06/15/16	06/15/16 06/15/16 06/15/16	1625393 1625393 1625431 [CALC]				
pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u> Hardness, Total (as CaCO3) Total Filterable Residue/TDS	Field Field EPA 140.1M Calculated	8.04 21.3 1 300	6.6	N/A N/A 3 N/A	pH Units °C TON mg/L	06/15/16 06/15/16 06/15/16 06/24/16	06/15/16 06/15/16 06/15/16 06/27/16	1625393 1625393 1625431 [CALC]				
pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u> Hardness, Total (as CaCO3)	Field Field EPA 140.1M Calculated	8.04 21.3 1 300	6.6	N/A N/A 3 N/A	pH Units °C TON mg/L	06/15/16 06/15/16 06/15/16 06/24/16	06/15/16 06/15/16 06/15/16 06/27/16	1625393 1625393 1625431 [CALC] 1626009				

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc. EDT Transfer Confirmation 1



Work Order: 16F1481 Report Date: 06/30/2016 Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH	Sy	stem: 1	910073
WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-0	06	Sa	ampled: 160615 08:45
COLOR	Result: ND	Units: UNITS	Entry No	.: 00081	Analyzed: 160615
IRON	Result: ND	Units: UG/L	Entry No	.: 01045	Analyzed: 160629
MANGANESE	Result: ND	Units: UG/L	Entry No	.: 01055	Analyzed: 160629

Printed: 06/30/2016 01:27:26 PM Results of 16F1481 FINAL WRITEON 1910073-006 Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088



Certificate of Analysis

Analytical Laboratory Service - Since 1964

Page 1 of 3

Project: 16F1481

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/17/2016 with the Chain of Custody document. The samples were received in good condition, at 2.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F17007-01 Sampled by: Client	Sample Sample		Reservoir 16 08:30	Effluent Site	Ma	atrix: Water				
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.37	0.0012	0.010	mg/l	1	RSK-175	6/21/16	6/21/16 21:07	W6F1173	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

atch W6F1173 - RSK-175											
Blank (W6F1173-BLK1)					Prepared: 06	/21/16 An	alyzed: 06/2	L/16 20:08			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit		
Methane		ND		mg/l							
LCS (W6F1173-BS1)					Prepared: 06	/21/16 An	alyzed: 06/2	L/16 20:48			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit		
Methane		0.183		mg/l	0.198	92	85-115				
Duplicate (W6F1173-DUP1)	S	ource: 6F1700	7-01	Prepared: 06/21/16 Analyzed: 06/21/16 21:27							
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit		
Methane	0.366	0.408		mg/l				11	20		



Page 3 of 3

Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

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

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

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not detected at or above the MDL.
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER

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Clinical Laboratory of San Bernardino

6F17607

16F1481

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone :(626) 336-2139 Fax: (626) 336-2634
Please email results to Project Manager: Stu Styles []glaubig@clinical-lab.com []ybarra@clinical-lab.com	n [V styles@clinical-lab.com [] nelson@clinical-lab.com
California EDT transfer those samples with PS codes Transfer File requested; log in with Element ID only	
Turn Around Time [] 10 Days [√] 5 Days [] O Subcontract Comments:	ther Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 16F1481-02	Sampled: 06/15/16 08:30 PS Code:
Sample 10. Reservon Entdent Site #57 101 1401 02	Water WTX ID:
Methane RSK175	Report in mg/L
Containers Supplied:	
0mL Amber Vial HCl (B) 40mL Amber Via	al HCI (C)
	the second s
and a second second Second second	
and a state of the second s Second Second	
nen en	
and a second second Second second	
	\bigcirc 1
Bd Shing 06/16/16 13:00	Received Bolly Date / Time 7
Langan 6/17/16	1005 6/17/16 1005

16F[48] OJZ I U Cham of Custody F)

		a ganada	ting (2 - Sec						Comments / P.S. Cortos	21.6		2/2			Air		/ Company.	M/155	A	scals	
ted				Ha	CT/ rdn	FC H	Ca		,	17.7 NG		N PHCNYTemo			DW-Drinking Water, WW Water, SW-Storm Water, G-Air	nt, 4-Special W-Well D- Dist.	Ky (Sign) Print Name		m sed	C [Intact () Custoly seals	
Analysis Requested					(alo ob.d.S ob.d.S ob.			· Total	H, C X X Y	7 47				ng Water, WW-Waste Water, SW-	Type- 1-Routine, 2 Ropent, 3-Replacement	me Receipter	its the	Etr C	Samples received. The ic	
System Number >	0 F U U F U F	1210010	Destination Labor. And	1990 EX	RWQCE Contraction	۸۰۰ ELAP #		1088	Vialutia Taple Frence	W W W	V/V WI WO	11			Matr/x DW-Drinkin	Type- 1-F	Date (Tim	6/15/2016	6.15.16 1	Sa Sa	
City of Lomita	24373 Walnut Avenue	Laurita, CA 91717	19 325-9850		Standard Analysis	CRVT Still Rech June Compliance Soughting		DGM	Sample Idenitification	alluent Site #3	ffluent Site #5	Reservoir Effluent Site #5			s) HNO3 (4) NH4CI	(8) Other:	Print Name / Company	City of Lomita	J. Wand as b	4	
Client	Address		Fhone #	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	Project	Sub Project CUTT And	Comments	Sampled by	Date Time S	615 2016 BS45 Reservoir influent Site #3	(/15/2016 Ø830 Reçervoir Effuent Site #5	6/15/2016 Reservoir El			Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	Relinquished By (Sign)	Daniel March . J. Jug	- NAX	comments:	

"Your Water and Wastewater Analysis Solution"



08 July 2016

Clinical Lab No.: 16F2064

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

Project Name:Standard AnalysisSub Project:CWPF 4th Week June Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 06/22/16. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



Lomita, City of 24373 Walnut Avenue Lomita CA, 91717			Project: Star b Project: CW Manager: Mar	PF 4th W	eek June Com	bliance Samplin	g		16F2064 06/22/16 16:30 07/08/16
Reservoir Influent Site #3		16F2064-0)1 (Water)		Sample Dat	e: 06/22/16	7:45	Sampler: D	OGM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4.7		N/A	mg/L	06/22/16	06/22/16	1626366	
pH (Field)	Field	7.64		N/A	pH Units	06/22/16	06/22/16	1626366	
Temperature (Field)	Field	22.7		N/A	°C	06/22/16	06/22/16	1626366	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/22/16	06/22/16	1626319	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/05/16	07/06/16	1628038	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/05/16	07/06/16	1628038	
Reservoir Effluent Site #5		16F2064-0	02 (Water)		Sample Dat	e: 06/22/16	7:30	Sampler: D	OGM
Analyte	Method	Result	D 1 :	MOL		Deserved	Analyzed	Batch	Qualifier
	method	Result	Rep. Limit	MCL	Units	Prepared			
Field Analyses	memou	Result	Kep. Limit	MCL	Units	Prepared			
Field Analyses Cl Res Total (Field)	Field	2.54	Rep. Limit	N/A		06/22/16	06/22/16	1626366	
			Kep. Limit		Units mg/L pH Units			1626366 1626366	
Cl Res Total (Field)	Field	2.54	Kep. Limit	N/A	mg/L	06/22/16	06/22/16		
Cl Res Total (Field) pH (Field) Temperature (Field)	Field	2.54 7.89	Kep. Limit	N/A N/A	mg/L pH Units	06/22/16 06/22/16	06/22/16 06/22/16	1626366	
pH (Field)	Field	2.54 7.89	Rep. Limit	N/A N/A	mg/L pH Units	06/22/16 06/22/16	06/22/16 06/22/16	1626366	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold	Field Field Field	2.54 7.89 22		N/A N/A N/A	mg/L pH Units ℃	06/22/16 06/22/16 06/22/16	06/22/16 06/22/16 06/22/16	1626366 1626366	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold	Field Field Field	2.54 7.89 22		N/A N/A N/A	mg/L pH Units ℃	06/22/16 06/22/16 06/22/16	06/22/16 06/22/16 06/22/16	1626366 1626366	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u>	Field Field Field EPA 140.1M	2.54 7.89 22 1	1	N/A N/A N/A	mg/L pH Units ℃ TON	06/22/16 06/22/16 06/22/16 06/22/16	06/22/16 06/22/16 06/22/16 06/22/16	1626366 1626366 1626319	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u> Hardness, Total (as CaCO3) Total Filterable Residue/TDS	Field Field Field EPA 140.1M Calculated	2.54 7.89 22 1 280	1 6.6	N/A N/A N/A 3 N/A	mg/L pH Units ℃ TON mg/L	06/22/16 06/22/16 06/22/16 06/22/16 06/22/16	06/22/16 06/22/16 06/22/16 06/22/16 06/22/16	1626366 1626366 1626319 [CALC]	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u> Hardness, Total (as CaCO3)	Field Field Field EPA 140.1M Calculated	2.54 7.89 22 1 280	1 6.6	N/A N/A N/A 3 N/A	mg/L pH Units ℃ TON mg/L	06/22/16 06/22/16 06/22/16 06/22/16 06/22/16	06/22/16 06/22/16 06/22/16 06/22/16 06/22/16	1626366 1626366 1626319 [CALC]	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc. EDT Transfer Confirmation 1



Work Order: 16F2064 Report Date: 07/08/2016 Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH	Syst	cem: 19	10073
WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-0	006	Sai	mpled: 160622 07:45
COLOR	Result: ND	Units: UNITS	Entry No.	: 00081	Analyzed: 160622
IRON	Result: ND	Units: UG/L	Entry No.	01045	Analyzed: 160706
MANGANESE	Result: ND	Units: UG/L	Entry No.	01055	Analyzed: 160706

Printed: 07/08/2016 10:09:18 AM Results of 16F2064 FINAL WRITEON 1910073-006 Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088



Analytical Laboratory Service - Since 1964

Page 1 of 3

 Report Date:
 06/30/16 15:38

 Received Date:
 06/24/16 11:10

 Turnaround Time:
 5 workdays

 Phones:
 (909) 825-7693

 Fax:
 (909) 825-7696

 P.O. #:
 5

Project: 16F2064

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/24/2016 with the Chain of Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F24034-01 Sampled by: Client	Sample Sample	ID: F d: 06/22/*		Effluent Site	e #5 / 16	F2064-02			Ma	atrix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.54	0.0012	0.010	mg/l	1	RSK-175	6/28/16	6/28/16 19:36	W6F1596	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

atch W6F1596 - RSK-175									
Blank (W6F1596-BLK1)					Prepared: 06	28/16 An	alyzed: 06/28	8/16 19:16	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W6F1596-BS1)					Prepared: 06	28/16 An	alyzed: 06/29	9/16 12:09	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.230	A-01	mg/l	0.198	116	85-115		
Duplicate (W6F1596-DUP1)	S	ource: 6F2403	4-01		Prepared: 06	28/16 An	alyzed: 06/28	8/16 19:56	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.539	0.519		mg/l				4	20



Notes:

The Chain of Custody document is part of the analytical report.

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

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

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



NELAC #4047-002 ORELAP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

A-01	Sample may have been contaminated during sample preparation. Batch was validated based on the sample duplicate recovery and RPD
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not detected at or above the MDL.
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

	SUBCON	TRACT ORDER	
		atory of San Bernardino	
		l6F2064	6F24034
SENDING LABORATORY:		RECEIVING LABORA	TORY:
Clinical Laboratory of San Berr 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	nardino	Weck Lab, Analytical & Analytical & Environm Industry, CA 91745 Phone :(626) 336-2139 Fax: (626) 336-2634	ental Svc 14859 E Clark Ave
Please email results to Project M [] glaubig@clinical-lab.com	Manager: Stu Styles [] ybarra@clinical-lab.com	[√] styles@clinical-lab.com	n [] nelson@clinical-lab.com
California EDT transfer	those samples with PS codes pro log in with Element ID only	<i>,</i>	
	Days [5 Days [] Other	Days	
Subcontract Comments:			
			•
Analysis	· · · · ·		Comments
Methane RSK175	Wa		WTX ID: Report in mg/L
Containers Supplied:	40		
40mL Amber Vial HCl (B)	40mL Amber Vial He		······································
	· 		
BJ Dy Released By	06/23/16 12:40 Date / Time	Received By	6-24-/2 9!10 Date/Time
Released By	6 23 16 11.10 Date/Time	Received By	Co 24/14 110 2.3°C Date / Time

Comments / P.S. Codes 22,0 PH TLATEmp 22,7 Print Name / Comp) Custody seals Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air PH 7, 89 Temp 1 of Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. Fintact × Odor BACT/TC/HPC eccived By (Sign) × Total Hardness (as CaCO3) Analysis Requested × Ice. Methane (Water) (RSK175) × Color × emp **Total Dissolved Solids** Samples received: Manganese × Iron × 2,54 30 Chlorine Total 7 10 | Other T Date / Time Destination Laboratory [X] Clinical Laboratory RWQCB Compliance 1910073 HCL Preserv N/A N/A System Number ELAP # 1088 No Client 6/22/2016 12.9 Type 1W 1W 1W Sdn Matrix DW DW DW Print Name / Company CWPF 4th Week June Compliance Sampling [] Golden State City of Lomita For TC/EC/BACT see weekly Distro CoC Sample Idenitification 24373 Walnut Avenue Lomita, CA 91717 Standard Analysis City of Lomita (310) 325-9830 (310) 325-3627 Preservatives: (1) Na₂S₂O₃ (2) HCI (3) HNO3 (4) NH4CI DGM Reservoir Influent Site #3 Reservoir Effluent Site #5 **Reservoir Effluent Site #5** [] Fed X (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: Relinquished By (Sign) Ø.130 Ø 745 Time 10 Sub Project Comments: Sampled by Comments Daniel Mateik 6/22/2016 Shipped Via 6/22/2016 6/22/2016 Address Phone # Project Date Fax # Client

"Your Water and Wastewater Analysis Solution"

16F2064 0 Zham of Custody



08 July 2016

Clinical Lab No.: 16F2504

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

Project Name:Standard AnalysisSub Project:CWPF 5th Week June Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 06/29/16. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



Lomita, City of 24373 Walnut Avenue Lomita CA, 91717			Project: Star b Project: CW Manager: Mar	PF 5th W	eek June Com	pliance Samplin	g		16F2504 06/29/16 15:00 07/08/16
Reservoir Influent Site #3		16F2504-0	01 (Water)		Sample Dat	e: 06/29/16	7:00	Sampler: I	OGM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4		N/A	mg/L	06/29/16	06/29/16	1627285	
pH (Field)	Field	7.76		N/A	pH Units	06/29/16	06/29/16	1627285	
Temperature (Field)	Field	22.9		N/A	°C	06/29/16	06/29/16	1627285	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/29/16	06/29/16	1627362	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/30/16	07/01/16	1627336	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/30/16	07/01/16	1627336	
Reservoir Effluent Site #5		16F2504-0	2 (Water)		Sample Dat	e: 06/29/16	7:30	Sampler: I	DGM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
			-	шев	Onits	•			
Field Analyses				inel	Units				
	Field	2.56				06/29/16	06/29/16	1627285	
<u>Field Analyses</u> Cl Res Total (Field) pH (Field)	Field Field	2.56 7.9		N/A N/A	mg/L pH Units	06/29/16 06/29/16	06/29/16 06/29/16	1627285 1627285	
Cl Res Total (Field)				N/A	mg/L				
pH (Field)	Field	7.9		N/A N/A	mg/L pH Units	06/29/16	06/29/16	1627285	
Cl Res Total (Field) pH (Field) Temperature (Field)	Field	7.9	1	N/A N/A	mg/L pH Units	06/29/16	06/29/16	1627285	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold	Field Field	7.9 23	1	N/A N/A N/A	mg/L pH Units ℃	06/29/16 06/29/16	06/29/16 06/29/16	1627285 1627285	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold	Field Field	7.9 23	1 6.6	N/A N/A N/A	mg/L pH Units ℃	06/29/16 06/29/16	06/29/16 06/29/16	1627285 1627285	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u>	Field Field EPA 140.1M	7.9 23 1		N/A N/A N/A	mg/L pH Units ℃ TON	06/29/16 06/29/16 06/29/16	06/29/16 06/29/16 06/29/16	1627285 1627285 1627362	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u> Hardness, Total (as CaCO3) Total Filterable Residue/TDS	Field Field EPA 140.1M Calculated	7.9 23 1 290	6.6	N/A N/A N/A 3 N/A	mg/L pH Units °C TON mg/L	06/29/16 06/29/16 06/29/16 07/06/16	06/29/16 06/29/16 06/29/16 07/07/16	1627285 1627285 1627362 [CALC]	
Cl Res Total (Field) pH (Field) Temperature (Field) <u>General Physical Analyses</u> Odor Threshold <u>General Chemical Analyses</u> Hardness, Total (as CaCO3)	Field Field EPA 140.1M Calculated	7.9 23 1 290	6.6	N/A N/A N/A 3 N/A	mg/L pH Units °C TON mg/L	06/29/16 06/29/16 06/29/16 07/06/16	06/29/16 06/29/16 06/29/16 07/07/16	1627285 1627285 1627362 [CALC]	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc. EDT Transfer Confirmation 1



Work Order: 16F2504 Report Date: 07/08/2016 Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH	Syst	em: 19	10073
WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-0	06	Sai	mpled: 160629 07:00
COLOR	Result: ND	Units: UNITS	Entry No.:	00081	Analyzed: 160629
IRON	Result: ND	Units: UG/L	Entry No.:	01045	Analyzed: 160701
MANGANESE	Result: ND	Units: UG/L	Entry No.:	01055	Analyzed: 160701

Printed: 07/08/2016 04:23:21 PM Results of 16F2504 FINAL WRITEON 1910073-006 Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088



Analytical Laboratory Service - Since 1964

Page 1 of 3

Attn: John Styles

Project: 16F2504

Client: Clinical Laboratory of San Bernardino, Inc. 21881 Barton Road Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/30/2016 with the Chain of Custody document. The samples were received in good condition, at 6.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F30044-01 Sampled by: Client	Sample Sample	ID: F d: 06/29/		Effluent Site	e #5 / 16	F2504-02			Ma	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.37	0.0012	0.010	mg/l	1	RSK-175	7/1/16	7/1/16 15:38	W6G0110	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

atch W6G0110 - RSK-175									
Blank (W6G0110-BLK1)					Prepared: 07	/01/16 An	alyzed: 07/01	L/16 15:18	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W6G0110-BS1)					Prepared: 07	/01/16 An	alyzed: 07/0	L/16 14:59	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.188		mg/l	0.198	95	85-115		
Duplicate (W6G0110-DUP1)	S	ource: 6F3004	4-01		Prepared: 07	/01/16 An	alyzed: 07/0	L/16 15:58	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.370	0.377		mg/l				2	20



Notes:

The Chain of Custody document is part of the analytical report.

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

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

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL). For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not above the MDL.
analysis, original report enclosed.
ion Limit
ting Limit
ctable Activity

Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

6F30044

16F2504

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino	Weck Lab, Analytical & Environmental
21881 Barton Road	Analytical & Environmental Svc 14859 E Clark Ave
Grand Terrace, CA 92313	Industry, CA 91745
Phone: 909.825.7693	Phone :(626) 336-2139
Fax: 909.825.7696	Fax: (626) 336-2634
Project Manager: Stu Styles	
Please email results to Project Manager: Stu St [] glaubig@clinical-lab.com [] ybarra@cli	
California EDT transfer those samples was transfer File requested; log in with Elements of the second secon	with PS codes provided [] Yes [V] No ment ID only [] Yes [V] No
	Days [] Other Days
Subcontract Comments:	
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 16F2504	
· .	Water WTX ID:
Methane RSK175	Report in mg/L
Containers Supplied:	
	nl Amber Vial (C)
· · · · · · · · · · · · · · · · · · ·	
· • • • •	
94.4	
	· · · · · · · · · · · · · · · · · · ·
Bu Dun 06/30/1	6 07:45 6/30/16 9/5
Bu Marken O6/30// Released By Date / T	$\frac{6}{100} \frac{071}{100} \frac{6}{100} \frac{100}{100} \frac{100}{1$
Bu Date / T Released By Date / T 6/5 o/fit	$\frac{6 \ 07! \text{y}}{\text{ime}} = \frac{6/3 \ 0/16}{127} \frac{9/5}{\text{for } 6.9^{\circ}} = \frac{6}{6.9^{\circ}}$

0[2] |6F2504 Chain of Custody

Address	24373 Walnut Avenue		ree rer								-	
2	Lomita, CA 91717		191	1910073					M	То		
Phone #	(310) 325-9830		Destination Laboratory	n Laborato	ory -		T		etha	tal		
Fax #	(310) 325-3627		[X] Clinica	[X] Clinical Laboratory	ry				ne	Haı	BA	
Project	Standard Analysis		RWQCB C	RWQCB Compliance	ð				(Wa	dne		0
Sub Project	CWPF 5th Week June Compliance Sampling	Bu		No ELAP #		ron	olved So	olor	ter) (F	ess (as	TC/HF	dor
Comments	For TC/EC/BACT see weekly Distro CoC		11	000			olids		RSK	CaC	PC	
Sampled by	DGM		2	1000					175)	:03)		
Date Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine		-))		Comments / P.S. Codes
6/29/2016 070	6700 Reservoir Influent Site #3	DW	1W	N/A	4.00	X	X	×				PH7. KTemp ZZ
6/29/2016 0/73	Reservoir Effluent Site #5	DW	1W	N/A	2.56		X					
6/29/2016	Reservoir Effluent Site #5	MQ	1W	HCL					X	×		X PH7,90Temp 23.(
irvatives: (1) Na	Preservatives: (1) Na ₅ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix.	DW-Drink	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water,	M-MM	aste Wa	ater, SI	N-Stol	m Wa	iter, G	GW- Ground Water, A-Air
(5) H2SO4 (6)	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:			Type-	1-Routine, 2	-Repe	at, 3-Re	placen	nent, 4	-Spec	ial W	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.
Relinquished By (Sign)	Ry (Sign) Print Name / Company	M		Date / Time	ime			ecein	:d By	Ry (Sign)	(1	Print Name / Company
Daniel Materix	City of Lonita	6	6/29/2016	6/12	06:	Y	R	2	M	3		5. Wienerala
Comments:	a lance al	2	6.70		Samples received: T	eceive			. <u>3</u>		Intact	ct () Custody seals
							Imor			_	/	

"Your Water and Wastewater Analysis Solution"

APPENDIX B

METHANE MONITORING LOG

.

OF LOALING CALIFORNIE

CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

	DAY		NE HANDHELD	COMMENTS
6/1/2016	W			CWPF OFFLINE
6/2/2016	TH			CWPF OFFLINE
6/3/2016	F			CWPF OFFLINE
6/4/2016	SA			CWPF OFFLINE
6/5/2016	SU			CWPF OFFLINE
6/6/2016	М			CWPF OFFLINE
6/7/2016	Т			CWPF OFFLINE
6/8/2016	W			CWPF OFFLINE
6/9/2016	TH			CWPF OFFLINE
6/10/2016	F	CH4- 0%	Oxy- 20.8%	
6/11/2016	SA	CH4- 0%	Oxy- 20.1%	
6/12/2016	SU	CH4- 0%	Oxy- 20.4%	
6/13/2016	M	CH4- 0%	Oxy- 20.4%	
6/14/2016	Т	CH4- 1%	Oxy- 20.1%	
6/15/2016	W	CH4- 1%	Oxy- 19.9%	
6/16/2016	TH	CH4- 0%	Oxy- 20.1%	
6/17/2016	F	CH4- 1%	Oxy- 19.9%	
6/18/2016	SA	CH4- 0%	Oxy- 20.1%	
6/19/2016	SU	CH4- 0%	Oxy- 20.3%	
6/20/2016	М	CH4- 0%	Oxy- 20.2%	
6/21/2016	Т	CH4- 1%	Oxy- 20.2%	
6/22/2016	W	CH4- 0%	Oxy- 20.4%	
6/23/2016	TH	CH4- 0%	Oxy- 20.2%	
6/24/2016	F	CH4- 1%	Oxy- 20.2%	
6/25/2016	SA	CH4- 0%	Oxy- 20.1%	
6/26/2016	SU	CH4- 0%	Oxy- 20.4%	
6/27/2016	М	CH4- 0%	Oxy- 20.3%	
6/28/2016	Т	CH4- 1%	Oxy- 20.3%	
6/29/2016	W	CH4- 0%	Oxy- 20.4%	
6/30/2016	TH	CH4- 0%	Oxy- 20.4%	
- Non Detect				

CH4- Methane

Oxy- Oxygen

Day Off/Holiday- Red

APPENDIX C

MITRIFICATION MONITORING DATA SUMMARY

Y REPORT	JUNE 2016
¹ MONTHLY NITRIFICATION MONITORING SUMMARY REPORT	CITY OF LOMITA, System No. 1910073 Month, Year:

Comments) Blend) Blend) Blend) Blend	Blend					Blend	Blend	Diend	Diand	-			Blend) Blend	Blend) Blend) Blend) Blend) Blend	Blend	Blend) Blend) Blend) Blend) Blend) Blend	Blend			
Cor		We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD	VIND ONIV	MWD Only	MWD Only		We///MWD Blend	We///MWD Blend	VVe///VVUD DIENO	DAVA//OVA	MAND ONIN	MWD Only	WWD Only	We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD	MWD Only	VINO UNIN		We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD	MWD Only	MWD Only	MWD UNIY	We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD	We///MWD	WWD Only	VIND ONIV	MWD Only
NOCO		1	1	1	1	1	2	e	2	ľ	1		- +	- *	- 0	1 0.	2	1	٢	1	1	1	~		N	+	1	1	1	1	2	т с	2	1	1	1	1	1	2	e	2
HPC	CFU/ml	QN	9	130	13		DN	DN	DN		UN .	2	15	E/10/4E	UN.	QN	DN	DN	DN	DN	DN	DN	QN .		22	QN	2	DN	8	DN	QN	Q S	ND	ΠN	DN	DN	38	DN	DN	DN	DN
Coliform ²	P/A	A	A	A	A		٨	A	A		4.	A <	τ 🖣	contino on	A	A	٨	A	A	A	A	A	A .	4 4	τ	A	A	А	A	A	A	A .	А	A	A	А	A	A	A	A	٨
Nitrate	mg/L	DN	DN	0.40	0.40		DN	DN	DN		ON .	UN 0.46	OF-D	CIA/DE planed haak	ND	QN	QN	DN	DN	DN	QN	QN	QN .		2	DN	DN	DN	DN	DN	QN	QN C	ND	DN	DN	DN	DN	DN	DN	DN	DN
Nitrite	mg/L	QN	DN	0.079	DN		DN	DN	ΠN		ON CI-	UN DAA	UN			QN	QN	DN	QN	DN	QN	QN .				DN	DN	DN	DN	QN	QN		ND	DN	DN	DN	DN	DN	DN	ND	ND
Free Ammonia	mg/L	QN	DN	ND	DN		DN	DN	DN			CIN UN	UN	collection day of 6/0/16	UN ND	DN	DN	DN	ND	DN	DN	DN .	UN CIV		2	DN	DN	DN	DN	DN	DN .	ON ON	DN DN	DN	DN	DN	DN	DN	DN	ND	DN
Total Ammonia	mg/L	ND	DN	DN	DN		QN	DN	DN		ON OI	ON ON	QN CN	routine cample	DIA	DN	QN	DN	DN	QN	QN	Q !	ON OIN	ON CN	2	DN	ND	DN	DN	DN	QN .		ND	DN	DN	DN	QN	DN	DN	DN	DN
<i>Free</i> Chlorine	mg/L	0.10	0.18	0.06	0.04	June 2016	0.07	0.07	0.17	100	0.01	0.04	0.03	dicinfactad during	0.18	0.09	0.08	0.11	0.22	0.09	0.61	0.05	0.94	0.12		0.13	0.07	0.10	0.04	0.07	0.08	0.06	0.02	0.16	0.07	0.14	0.13	1.12	0.26	0.12	1.77
Total Chlorine	mg/L	2.07	1.20	0.67	1.07	first week of J	2.10	2.30	1.95	000	2.02	7.15	0.75	and heing dis	2.13	2.00	2.09	1.95	1.82	2.03	1.08	2.42	2.20	2.07		2.01	1.99	2.40	1.21	2.54	2.40	2.40	2:40	2.04	2.17	2.40	1.08	2.56	2.30	2.20	2.40
Hd		8.15	8.11	8.05	8.05	e during the	8.25	8.24	8.21	7 66	00.0	8.02	8.00	ained offline	8.07	7.88	8.14	8.03	8.02	8.01	8.02	8.04	0.30 0.20	8.04		7.96	7.92	7.96	7.92	7.89	8.18	8.11	0.20	8.03	8.01	7.88	8.04	7.87	7.78	8.20	8.11
Temp	သိ	20.9	20.2	20.8	20.6	*CWPF offline during the first week of	21.5	20.5	20.4	100	1.72	21.1	21.9	**CM/PE remained offline and heind	22.1	21.4	21.5	22.8	22.2	23.2	22.4	21.3	0.22	22.4		23.3	22.6	22.7	24.3	22.0	24.1	22.9	0.77	25.8	23.7	24.9	24.7	25.7	24.1	23.4	26.7
Sample Date (and Time)	WM/DD/YYYY XX:XX am/m	6/1/2016	6/1/2016	6/1/2016	6/1/2016	6/1/2016	6/1/2016	6/1/2016	6/1/2016	6/8/2016	0107/010	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/15/2016	6/15/2016	6/15/2016	6/15/2016	0/12/2010	01/02/21/0	6/15/2016		6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	0/22/2016 e/20/04e	0/02/22/0	6/29/2016	6/29/2016	6/29/2016	6/29/2016	6/29/2016	6/29/2016	6/29/2016	6/29/2016
Location		1948 W. 252 nd St	24632 S Moon Av	25417 Pennsylvania Av	2052 Dawn St	Reservoir	1912 W. 259 th PI	26314 S Monte Vta.	2500 PCH	1010 111 25 210 Ct	1340 W. 232 SI	24032 S MOON AV 25417 Pannsvilvania Av	2052 Dawn St	Reservoir	1912 W. 259 th PI	26314 S Monte Vta.	2500 PCH	1948 W. 252 nd St	24632 S Moon Av	25417 Pennsylvania Av	2052 Dawn St	Keservoir	1912 W. 259 PI	2500 PCH	10.000	1948 W. 252 nd St	24632 S Moon Av	25417 Pennsylvania Av	2052 Dawn St	Reservoir	1912 W. 259" PI	26314 S Monte Vta.	LUT 1062	1948 W. 252 nd St	24632 S Moon Av	25417 Pennsylvania Av	2052 Dawn St	Reservoir	1912 W. 259 th PI	26314 S Monte Vta.	2500 PCH 6/29/2016 26.7
Sample I.D	Units/Others →	S13-003	S13-004	S13-008	A		13-1	13-2	13-5	640 643	213-003	S13-004	A 4		13-1	13-2	13-5	S13-003	S13-004	S13-008	A		13-1	13-5	202	S13-003	S13-004	S13-008	A		13-1	13-2	13-3	S13-003	S13-004	S13-008	A		13-1	13-2	
υσοC #	Units/C	1 D	2 D	3 D	4 D	5 D	6 D	2 D	8 D				4 0	+	+	-	8 D	-	-	0	-	-		2 0		1 D	2 D	3 D		-	0 D		0 0	1 D		3 D	4 D	5 D		7 D	8 D