CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

July 2015

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CITY COUNCIL

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ADMINISTRATION

MICHAEL ROCK

CITY OF LOMITA

August 10, 2015

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

Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of July 1 through July 31, 2015.

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 July 2015.

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

Sincerely,

Z

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

For the month of July 2015, the CWPF operated on a fill and draw cycle providing blended water with the reservoir level fluctuating with system demand. The Cypress Reservoir filled and drew for approximately 21 days and 10 days, respectively. The Cypress Reservoir effluent valve remained open for the entire month of July 2015. The total production from Well No. 5 for the month was approximately 45.10 ac-ft (14,694,625 gallons) with a daily production of approximately 2.15 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 120.20 ac-ft (39,165,610 gallons) for the month with a combined daily production of approximately 5.72 ac-ft.

The daily average flow from Well No. 5 was 496 gpm. The average flow from the Well was determined by taking an average of the daily reads provided on the Daily Monitoring logs used onsite. The blend ratio for this month was on average 38% Well water and 62% MWD water.

C. OPERATIONAL INTERRUPTIONS

On July 20, 2015 the Cypress Water Production Facility was offline due to several power spikes causing the well to shut down. Water within the Cypress Reservoir remained unaffected and the plant was put into drawdown mode. The well was put back online the following day, resuming normal operations. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruptions are anticipated for the following month of August 2015.

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 1 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color in the raw water (SP1) for the month was below the Maximum Contaminant Level (MCL). Iron concentration in the raw water (SP1) was at the MCL. Manganese concentration in the raw water (SP1) was above the MCL. Iron and Manganese levels entering the reservoir (SP3) were 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 and SP4. Daily total chlorine residuals were monitored at SP3 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 2 below for a weekly summary of results.

E3. TOTAL DISSOLVED SOLIDS (TDS), ODOR, HARDNESS AND METHANE

See Table 3 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 706 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 620 mg/L and 670 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month of July indicate the hardness levels of the blended water to be 310 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 0.62 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 2015 in Appendix B.

F. TABLES

Table 1. Monitoring Results for SP1, SP2, and SP3 Sample Locations.

		SP1, We	ell Raw	Water	Disch	arge		SP2, Pres	Comi sure i ffluer	bined Filter nt	SP	3, Afte mixe	r chlora er; reser	minati voir ei	on stati htry	с
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
7/1/2015											ND	300	ND	50	ND	15
7/8/2015	480	300	130	50	10	15	А	А	А	500	ND	300	ND	50	ND	15
7/15/2015											ND	300	ND	50	ND	15
7/22/2015											ND	300	ND	50	ND	15
7/29/2015											ND	300	ND	50	ND	15

Notes: Monthly- Orange

Weekly- Yellow

A – Absent ND – Non Detect

*Per the SWRCB Drinking Water "Chemicals and Contaminants in

Drinking Water" Regulations

Data wook of	SP2	SI	P3	SP4		SP5
Date, week of	Free CI	Free Cl	Total CI	Free CI	Total Cl	MCL= 4 mg/L
7/1/2015	9.00	8.60	10.23	2.50	3.27	4
7/8/2015	19.79	10.27	12.67	1.77	3.53	4
7/15/2015	20.27	7.73	9.97	1.53	3.43	4
7/22/2015	31.89	10.03	12.00	1.75	3.87	4
7/29/2015	12.67	8.29	10.45	1.50	3.57	4

Table 2. Monitoring Results for Free and Total Chlorine at SP2, SP3, SP4 and SP5 Sample Locations.

Table 3. Monitoring Requirements and Frequencies for SP1, SP5, and SP6.

		TD	S, mg/L		Т.О	.N.	Hai	[.] dness, ng/L	Me (Wate	thane r), mg/L
Date, week of	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 500 - 750 mg/L	SP5 - Reservoir Effluent	MCL= 3	SP5 - Reservoir Effluent	Goal= 180 - 250 mg/L	SP1 - Raw Well Water	SP5 - Reservoir Effluent
7/1/2015			740	500-750						0.76
7/8/2015		670	700	500-750	1	3			6.7	0.48
7/15/2015			690	500-750			310	180-250		0.56
7/22/2015			690	500-750						0.67
7/29/2015	620		710	500-750						0.64
Average			706							0.62

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

Appendix A

Laboratory Results



13 July 2015

Clinical Lab No.: 15G0175

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

Project Name:Standard AnalysisSub Project:CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 07/01/15. 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 AnalysisWork Order:15G0175Sub Project:CWPF Weekly Compliance AnalysisReceived:07/01/15 16:00Project Manager:Mark AndersenReported:07/13/15									
Filter Effluent Site (Chloramine) #3		15G0175-0	01 (Water)		Sample Date	e: 07/01/15	10:47 S	Sampler:	Edward Duvivier	
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier	
General Physical Analyses										
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/01/15	07/01/15	1527504		
Metals										
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/07/15	07/08/15	1528116		
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/07/15	07/08/15	1528116		
Reservoir Effluent Site #5		15G0175-0	02 (Water)		Sample Date	e: 07/01/15	10:39 S	Sampler:	Edward Duvivier	
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier	
General Chemical Analyses										
Total Filterable Residue/TDS	SM 2540C	740	5.0	1000	mg/L	07/02/15	07/08/15	1527429		

ND Analyte NOT DETECTED at or above the reporting limit

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



Work Order: 15G0175 Report Date: 07/13/2015 Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH		Syst	em: 191	10073
WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-	006		Sam	pled: 150701 10:47
COLOR	Result: ND	Units: UNITS	Entry	No.:	00081	Analyzed: 150701
IRON	Result: ND	Units: UG/L	Entry	No.:	01045	Analyzed: 150708
MANGANESE	Result: ND	Units: UG/L	Entry	No.:	01055	Analyzed: 150708

Printed: 07/13/2015 12:05:00 PM Results of 15G0175 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: 15G0175

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 7/2/2015 with the Chain of Custody document. The samples were received in good condition, at 3.5 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5G02051-01 Sampled by: Client	Sample I Sampled	D: : 07/01	Reservoir I /15 10:39	Effluent Site	#5 / 15	G0175-02			Ма	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.76		0.010	mg/l	1	RSK-175	7/9/15	7/9/15 14:54	W5G0456	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5G0456 - RSK-175

Blank (W5G0456-BLK1)					Prepared: 07/	09/15	Analyzed: 07/09	/15 14:22	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5G0456-BS1)					Prepared: 07/	09/15	Analyzed: 07/09	/15 14:44	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.210		mg/l	0.198	106	85-115		
Calibration Check (W5G0456-CCV1)					Prepared: 07/	09/15	Analyzed: 07/09	/15 14:33	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00746		mg/l	0.00792	94	50-150		
Calibration Check (W5G0456-CCV2)					Prepared: 07/	09/15	Analyzed: 07/09	/15 14:11	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.194		mg/l	0.198	98	85-115		
Duplicate (W5G0456-DUP1)	s	ource: 5G02051	L-01		Prepared: 07/	09/15	Analyzed: 07/09	/15 15:05	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.763	0.730		mg/l				4	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 Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15G0175

5602051

SENDING LABORATORY:	<u>RECEIVING LABORATORY:</u>
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 Styles [] glaubig@clinical-lab.com [] ybarra@clinical-la	b.com [V styles@clinical-lab.com [] cole@clinical-lab.com
California EDT transfer those samples with PS Transfer File requested; log in with Element ID	codes provided [] Yes [v] No only [] Yes [] No
Turn Around Time [] 10 Days [$\sqrt{5}$ Days [Subcontract Comments:] Other Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 15G0175-02	Sampled: 07/01/15 10:39 PS Code: Water WTX ID: UCMR ID:
Methane RSK175	Report in mg/L
Containers Supplied	
concerned a supplied.	

40mL Amber Vial HCl (B) 40mL Amber Vial HCl (C)

3.5C 07/02/15 Date / Time 08:50 <u>7-2-15</u> Date / Time Ree 7-2-15 / 1 Date / Time 1:45 07 1 //. ງ_// { / Date / Time Released By Recei ed By

_	Clinica	l Laboratory of San Bernardi	ino, Iı	nc.						S	R) Cha	tin of Custody	
Client		City of Lomita	Sy	stem N	umber		Analy	/sis R	edue	sted					
Addre	SS	24373 Walnut Avenue		191	0073						IV	M			
	Image: second se	Lomita, CA 91717]	I	leti	leth			
Phone	#	(310) 325-9830	٩	estinatio	on Laborat	tory		Tot	Pho	Pho					
Fax #		(310) 325-3627		X] Clinic	al Laborat	tory		tal I	ospł	sph		e (#			
Projec	Ļ	Standard Analysis		CDWR (Complianc	ę.	In	Diss Jan	iate	ioru	WA C	AIR			
Sub Pr	roject	CWPF Weekly ComplianceAnalysis		Ξ	YES		ron	olved	- Orth	s- Tot	olor) (AS			
Comm	ents						-	Solio	io ás	al as	(KS				
Sampl	ed by	Edward Dwiver			000			ds	Р	s P	K 1 /	D194			
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine					5)	16) 	Com	ments / P.S. Codes	
		Raw Water Site #1	DW	1W	HCL		\vdash						W13-0(95	Г
		Raw Water Site #1	DW	1W	N/A						_		W13-0(95	
							-							•	Γ
2-1-12	2401 -	 Filter Effluent Site (Chloramine) #3 	DW	1W	N/A		×	×			×		E13-00	5A 3 k 53/ (pla	د الآ
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5-1-2	1038	Reservoir Effluent Site #5	DW	1W	N/A		+	×					0	he Cshined	T
21-15	6501	Reservoir Effluent Site #5 2	DW	1W	HCL						Ň		2 vie	(کا،	Г
															ГТ
		Zone #2 Site #6	ŊŊ	N I	N/A						+				
	-							+		+	+				
Preserv: (5)	atives: (1 H2SO4 (() Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI 5) Na2SO3 (7) Cold (8) Other:		Matrix:	DW-Drink Tvpe- 1	ing Water, V I-Routine. 2	W-W -Repe	aste W nt. 3-Re	ater, S offace	W-Sto	rm Wa 1-Spec	ter, G ial W	W- Ground -Well D- D	l Water, A-Air list.	Т
Reli	quished	By (Sign) Print Name / Company	~		Date A	Time		Ĩ	eceive	d By	(Sign)		Print	t Name / Company	T
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"Your Water and Wastewater Analysis Solution"

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20 July 2015

Clinical Lab No.: 15G0789

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

Project Name: Standard Analysis Sub Project: CWPF Monthly Samples

Enclosed are the results of the analyses for samples received at the laboratory on 07/08/15. 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		Su Project	Project: Star Ib Project: CW Manager: Mar	ndard Ana PF Montl k Anders	lysis hly Samples en			Work Order: Received: Reported:	15G0789 07/08/15 18:00 07/20/15
Filter Effluent (Free Chlorine) Site #2		15G0789-	01 (Water)		Sample Dat	e: 07/08/15	11:20	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	d Batch	Qualifier
Field Analyses									
Cl Res Free (Field)	Field	14.02		N/A	mg/L	07/08/15	07/08/15	1528522	
Microbiology Analyses									
Total Coliform	SM 9223	А		N/A	P/A	07/08/15	07/09/15	1528511	
E. Coli	SM 9223	А		N/A	P/A	07/08/15	07/09/15	1528511	
Plate Count	SM9215B	ND	1	500	CFU/ml	07/08/15	07/10/15	1528601	
Filter Effluent (Chloramine) Site #3		15G0789-	02 (Water)		Sample Dat	e: 07/08/15	11:22	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	d Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/08/15	07/08/15	1528548	
Odor Threshold	EPA 140.1M	1	1	3	TON	07/08/15	07/08/15	1528548	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/10/15	07/10/15	1528457	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/10/15	07/10/15	1528457	
Reservoir Effluent Site #5		15G0789-	03 (Water)		Sample Dat	e: 07/08/15	11:29	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	d Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.27		N/A	mg/L	07/08/15	07/08/15	1528441	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/08/15	07/08/15	1528548	
Odor Threshold	EPA 140.1M	1	1	3	TON	07/08/15	07/08/15	1528548	
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.8		N/A	pH Units	07/09/15	07/09/15	1528468	
Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	07/10/15	07/11/15	1529195	



Lomita, City of 24373 Walnut Avenue Lomita CA, 91717		Su Project		Work Order: 15G0789 Received: 07/08/15 18:00 Reported: 07/20/15						
Zone #2 (MET) Site #6		15G0789-	04 (Water)		Sample Da	te: 07/08/15	11:24	Sampler: E	dward Duvivier	
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier	
Field Analyses										
Cl Res Total (Field)	Field	2.05		N/A	mg/L	07/08/15	07/08/15	1528441		
General Chemical Analyses										
Total Filterable Residue/TDS	SM 2540C	670	5.0	1000	mg/L	07/10/15	07/11/15	1529195		
Raw Water (Well #5) Site #1		15G0789-05 (Water)				Sample Date: 07/08/15 11:19 Sampler: Edward Duvivies				
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier	
Field Analyses										
Cl Res Total (Field)	Field	0		N/A	mg/L	07/08/15	07/08/15	1528441		
Microbiology Analyses										
Total Coliform	SM 9223	А		N/A	P/A	07/08/15	07/09/15	1528511		
E. Coli	SM 9223	А		N/A	P/A	07/08/15	07/09/15	1528511		
Plate Count	SM9215B	5	1	500	CFU/ml	07/08/15	07/10/15	1528601		
General Physical Analyses										
Apparent Color	SM 2120B	10.0	3.0	15	Color Units	07/08/15	07/08/15	1528548		
Odor Threshold	EPA 140.1M	2	1	3	TON	07/08/15	07/08/15	1528548		
General Chemical Analyses										
pH (Lab)	SM 4500HB	8.1		N/A	pH Units	07/09/15	07/09/15	1528468		
Metals										
Iron (Fe)	EPA 200.7	480	100	300	ug/L	07/10/15	07/10/15	1528457		
Manganese (Mn)	EPA 200.7	130	20	50	ug/L	07/10/15	07/10/15	1528457		

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

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



Work Order: 15G0789 Report Date: 07/20/2015

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH	Syste	em: 1910	073
WELL 05	Stat	ion No.: 1910073-0	03	Samp	led: 150708 11:19
COLOR	Result: 10.0	Units: UNITS	Entry No.:	00081	Analyzed: 150708
ODOR THRESHOLD @ 60 C	Result: 2	Units: TON	Entry No.:	00086	Analyzed: 150708
PH (LABORATORY)	Result: 8.1	Units: UNITS	Entry No.:	00403	Analyzed: 150709
IRON	Result: 480	Units: UG/L	Entry No.:	01045	Analyzed: 150710
MANGANESE	Result: 130	Units: UG/L	Entry No.:	01055	Analyzed: 150710
MWD CONNECTION WB-8A & WB-8B/TREAT	ED Stat	ion No.: 1910073-0	05	Samp	led: 150708 11:24
TOTAL DISSOLVED SOLIDS	Result: 670	Units: MG/L	Entry No.:	70300	Analyzed: 150711
WELL 05 TREATMENT PLANT EFFLUENT	Stat	ion No.: 1910073-0	06	Samp	led: 150708 11:22
COLOR	Result: ND	Units: UNITS	Entry No.:	00081	Analyzed: 150708
ODOR THRESHOLD @ 60 C	Result: 1	Units: TON	Entry No.:	00086	Analyzed: 150708
IRON	Result: ND	Units: UG/L	Entry No.:	01045	Analyzed: 150710
MANGANESE	Result: ND	Units: UG/L	Entry No.:	01055	Analyzed: 150710



Certificate of Analysis

Analytical Laboratory Service - Since 1964

Page 1 of 3

Project: 15G0789

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 7/10/2015 with the Chain of Custody document. The samples were received in good condition, at 3.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5G10029-01 Sampled by: Client	Sample II Sampled:	D: : 07/08	Reservoir I /15 11:29	Effluent Site	#5 / 15	5G0789-03			Ма	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.48		0.010	mg/l	1	RSK-175	7/16/15	7/16/15 16:17	W5G0862	
Lab ID: 5G10029-02	Sample II	D:	Raw Water	(Well #5) Si	ite #1 /	15G0789-05			Ма	trix: Water
Sampled by: Client	Sampled	: 07/08	/15 11:19							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	6.7		0.20	mg/l	20	RSK-175	7/16/15	7/16/15 16:06	W5G0862	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5G0862 - RSK-175

Blank (W5G0862-BLK1)					Prepared: 07/1	L6/15	Analyzed: 07/16	/15 15:34	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5G0862-BS1)					Prepared: 07/1	L6/15	Analyzed: 07/16	/15 15:55	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.216		mg/l	0.198	109	85-115		
Calibration Check (W5G0862-CCV1)					Prepared: 07/1	L6/15	Analyzed: 07/16	/15 15:45	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00756		mg/l	0.00792	95	50-150		
Calibration Check (W5G0862-CCV2)					Prepared: 07/1	6/15	Analyzed: 07/16	/15 15:23	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.210		mg/l	0.198	106	85-115		
Duplicate (W5G0862-DUP1)	So	ource: 5G16035	5-01		Prepared: 07/1	L6/15	Analyzed: 07/16	/15 16:38	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.558	0.619		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:

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15G0789

5610029

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 Styles [] glaubig@clinical-lab.com [] ybarra@clinical-lab.com	styles@clinical-lab.com [] cole@clinical-lab.com					
California EDT transfer those samples with PS codes Transfer File requested; log in with Element ID only	provided []Yes [v]No []Yes [v]No					
Turn Around Time [] 10 Days [5 Days [] Oth Subcontract Comments:	ner Days					

Analysis	Comments					
Sample ID: Reservoir Effluent Site #5 / 15G0789-03	Sampled: 07/08/15 11:29 PS Code: Water WTX ID: UCMR ID:					
Methane RSK175	Report in mg/L					
Containers Supplied:						
40ml Amber Vial (A) 40ml Amber Vial (B)						
Sample ID: Raw Water (Well #5) Site #1 / 15G0789-05	Sampled: 07/08/15 11:19 PS Code: 1910073-003 Water WTX ID: UCMR ID:					
Methane RSK175	Report in mg/L					
Containers Supplied:						
40mL Amber Vial HCl (B) 40mL Amber Vial HCl (C)						

Be Shop	07/10/15 07:	so Potre	7-10-15 (8:0	00
Released	Date / Time 7.10-15	10:20 Received By Jamamen	Date/Time 740115 20:20	33.0
Released By	Date / Time	Received By	Date / Time	

							-	$\overline{\mathcal{N}}$	10789	
Client	City of Lomita	Syster	n Number	Analys	is Requ	ested				
Address	24373 Walnut Avenue	10	10072							
	Lomita, CA 91717		C / D D I O				5			
Phone #	(310) 325-9830	Destina	ition Laboratory	56	6		00	<u> </u>	(
Fax#	(310) 325-3627	[X] Clir	nical Laboratory		380	10	Η		<i>:</i> ∂	
Project	Standard Analysis	RWQC	B Compliance	°5	1 700	ρο	/'	, v 	۷ شرار	
Sub Project	CWPF Renthy Sunding		YES Elap#	l bul	Gun	11	wrag	.'J'		
Comments				0 T'	N /	H 010	ηo	り	2000	
Sampled by	Edward Juvive		1088 PPm	در ()	/ 40.	$\frac{1}{3}$	בין ר	E.	<u></u>	
Date Time	Sample Idenitification	Matrix Prese	ry Type Chlorine	42	Ί.		2	vv	Com	ments
2-8-12 1150	Filter Effluert (free cherte) \$3	DW 1,7	IN 14.02				X			
7-8-15 1122	Filter Ediner (Chlorimine) Stet	1	3		\times					
7-8-15 1129	Reservoir Effluent Site HS	Dw Ha	- 1D 3.27							
7-8-5 1128	Receiver Eltheat Site #5-	- MO	10 3,27	X		×				
7-8-5 1124	Zone & (MET) Sike # 6	- MO	10 2.05	X						
2-8-12 1118	Raw Water (well #5) Site #	CH 1.7	1/M 0m3/L				X	\times		
2-8-12 111 S	Raw Wate-CWell #S)S:te #1	G V	11/ 0m3/L	X	× ×	X				
2-8-12 1119	Raw Wuter (weilths) Site # 1	G-W Her	1/m0) -) 				- Dist.
Relinquished By	(Sign) Print Name / Company		Date / Time		\sim	Received	I By (Sig	n)		
SWA	Edward Drvivier	<i>V</i>	-0-15 113	0	M	J~			DIMIC	0 (550
R/ Joh	City of Lomita	7.	8-15 / 6:0	م م	7	d d	2	R	Hung	
commenter U	3-Ways/C133		- Samples receiv	- Alba	On ice	Sol Inta	ن کر ان ان	Custod	y seals Temp	
Shipped Via	[] Fed X [] Golden State] Client	[] Other		-		Puge	I_ of_I_		
+ pet stu; nc'	t everyth sample volume at 1/1/15									

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27 July 2015

Clinical Lab No.: 15G1412

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

Project Name:Standard AnalysisSub Project:CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 07/15/15. 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 AnalysisWork Order:15G1412Sub Project:CWPF Weekly Compliance AnalysisReceived:07/15/15 16:15Project Manager:Mark AndersenReported:07/27/15									
Filter Effluent Site (Chloramine) #3		15G1412-	01 (Water)		Sample Date	: 07/15/15	8:16	Sampler: Not Listed		
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier		
General Physical Analyses										
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/16/15	07/16/15	1529584		
General Chemical Analyses										
Total Filterable Residue/TDS	SM 2540C	780	5.0	1000	mg/L	07/17/15	07/20/15	1530031		
Metals										
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/21/15	07/22/15	1530113		
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/21/15	07/22/15	1530113		
Reservoir Effluent Site #5		15G1412-	02 (Water)		Sample Date	: 07/15/15	8:13 S	Sampler: Not Listed		
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier		
General Chemical Analyses										
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	07/17/15	07/20/15	1530031		

ND Analyte NOT DETECTED at or above the reporting limit

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



Work Order: 15G1412 Report Date: 07/27/2015 Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH		Syste	System: 1910073			
WELL 05 TREATMENT PLANT EFFLUENT	Stat	ion No.: 1910073-0	06		Samp	led: 150715 08:16		
COLOR	Result: ND	Units: UNITS	Entry	No.:	00081	Analyzed: 150716		
IRON	Result: ND	Units: UG/L	Entry	No.:	01045	Analyzed: 150722		
MANGANESE	Result: ND	Units: UG/L	Entry	No.:	01055	Analyzed: 150722		
TOTAL DISSOLVED SOLIDS	Result: 780	Units: MG/L	Entry	No.:	70300	Analyzed: 150720		

Printed: 07/27/2015 10:07:37 AM Results of 15G1412 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: 15G1412

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 7/16/2015 with the Chain of Custody document. The samples were received in good condition, at 5.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5G16035-01 Sampled by: Client	Sample I Sampled	D: : 07/15	Reservoir E 5/15 08:13	Effluent Site	#5 / 15	G1412-02			Ma	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.56		0.010	mg/l	1	RSK-175	7/16/15	7/16/15 16:27	W5G0862	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5G0862 - RSK-175

Blank (W5G0862-BLK1)					Prepared: 07/1	L6/15	Analyzed: 07/16	/15 15:34	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5G0862-BS1)					Prepared: 07/1	L6/15	Analyzed: 07/16	/15 15:55	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.216		mg/l	0.198	109	85-115		
Calibration Check (W5G0862-CCV1)					Prepared: 07/1	L6/15	Analyzed: 07/16	/15 15:45	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00756		mg/l	0.00792	95	50-150		
Calibration Check (W5G0862-CCV2)					Prepared: 07/1	6/15	Analyzed: 07/16	/15 15:23	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.210		mg/l	0.198	106	85-115		
Duplicate (W5G0862-DUP1)	So	ource: 5G16035	5-01		Prepared: 07/1	L6/15	Analyzed: 07/16	/15 16:38	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.558	0.619		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:

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

5616035

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15G1412

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 Styles [] glaubig@clinical-lab.com [] ybarra@clinical-lab	o.com [y styles@clinical-lab.com [] cole@clinical-lab.com
California EDT transfer those samples with PS of Transfer File requested; log in with Element ID	codes provided [] Yes [1]No only [] Yes [1]No
Turn Around Time [] 10 Days [1] 5 Days [Subcontract Comments:] Other Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 15G1412-02	Sampled: 07/15/15 08:13 PS Code: Water WTX ID: UCMR ID:
Methane RSK175	Report in mg/L
Containers Supplied:	
• =	

				5.10
0.01	1 .	a1 - 1	112	
BJ Dly	7/16/15	09:30 hour Ma	In 1	7-16-15 / 10:30
Released By	Date / Time	Received B	1/~	Date / Time
Charles March	7-16-15/1:0	5 ANK	· · · · · · · · · · · · · · · · · · ·	7/16/1 1305
Released By	Date // Time	Received/By		Date / Time

Comments / P.S. Codes 5 Print Name / Company Custody scals Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Puge_1_of_1 E13-005A Type- 1-Routine, 2-Repeat, 3-Rpglacement, 4-Special W-Well D- Dist. W13-005 W13-005 Methane (AIR) (ASTM D1946) Intact) F × Methane (WATER) (RSK175) B} (Sign) Color × **Analysis Requested** h ice **Phosphorus- Total as P** l'eitent Phosphate- Ortho as P Ret Tehn X × **Total Dissolved Solids** Samples received. × Manganese × Iron V Other Chlorine 1042 ć Total 1 ĺ (Date / Time Destination Laboratory [X] Clinical Laboratory **CDWR** Compliance 1910073 [] Client Preserv System Number HCL **V**/N N/A HCI, A/A ELAP # 1088 7 YES Ī Ļ , Type Ň 1W M M JW W ΙW
 |] Fed X
 |] Golden State
 |] UPS
 Matrix ΜQ ΝQ DW DW MO DW BIT PLAR Print Name / Company Reservoir Effluent Site #5 i June 2 **CWPF Weekly ComplianceAnalysis** Viriso/ ⁷ Filter Effluent Site (Chloramine) #3 Preservatives: (1) Na₂S₂O₃ (2) HCI (3) HNO3 (4) NH4CI Sample Idenitification Reservoir Effluent Site #5 24373 Walnut Avenue Lomita, CA 91717 Standard Analysis Raw Water Site #1 Raw Water Site #1 City of Lomita (310) 325-9830 (310) 325-3627 Zone #2 Site #6 (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other t Dev Rethinisher By (Sign) Û Time 2120 CE13 ういい Sub Project Sampled by Comments Comment Shipped Via Address Phone # 7-15-15 Project 2-15-2 7-15-15 Client Fax # Date 5

Clinical Laboratory of San Bernardino, Inc.

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"Your Water and Wastewater Analysis Solution" JS.9 C



23 July 2015

Clinical Lab No.: 15G1424

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

Project Name:Standard AnalysisSub Project:CWPF Weekly Non-Comp Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 07/15/15. 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 AnalysisWork Order:15G1424Sub Project:CWPF Weekly Non-Comp AnalysisReceived:07/15/15 16:15Project Manager:Mark AndersenReported:07/23/15								: 15G1424 07/15/15 16:15 07/23/15
Reservoir Effluent Site #5		15G1424-0	01 (Water)		Sample Date	: 07/15/15	8:12	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	310	6.6	N/A	mg/L	07/17/15	07/17/15	[CALC]	
Ortho-Phosphate (as P)	HACH 8048	0.14	0.0067	N/A	mg/L	07/16/15	07/16/15	1529531	
Phosphorus (Total as P)	HACH 8190	0.37	0.0067	N/A	mg/L	07/20/15	07/20/15	1530044	Ļ
Metals									
Calcium (Ca)	EPA 200.7	80	1.0	N/A	mg/L	07/17/15	07/17/15	1529578	3
Magnesium (Mg)	EPA 200.7	27	1.0	N/A	mg/L	07/17/15	07/17/15	1529578	3

ND Analyte NOT DETECTED at or above the reporting limit

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Retriguestial By (Sign) Print Name / Company Date / Time Received By (Sign)	CANALY Edward Durivier 7-15-15-1 (193)	Comments Arat J. U.C. R. U.C. R. U.C. C. Samples received: X. On ice (Jintact Shipped Via 11 Fed X 11 Golden State 11 UPS 11 Client Wother Temp	MAN	City of INMILE		N.V	1 2 1	<u>21:4</u>			A				-
Retriguistical By (Sign) Print Name / Company Date / Time Received By (Sign) C (V) Edward DuVivier 7-15-15 1043 C (A of Lower for 7-15-15 4:15 707	CARVE Edward DuVivier 7-15-15 1043	hipped Via [1] Fed X [] Golden State [] UPS [] Client X Other	comments;	ATAT J. WIERO CLSE		• •	s	amples r	eceived T		Oui	ee ee		tact	
Relative Sign. Print Name / Company Date / Time Received By (Sign) C. Edward Du Vivier 7-15-15 1043 C. D. U. C. D. Junier A. 7-15-15 4:15 700 iee (Jutact Comments PTAT J. U. C. D. C. R. 7-15-15 4:15 700 iee (Jutact C. D. D. C. D. C. D. C. B. 7-15-15 4:15 700 iee (Jutact	Comments Prar J. U.C. D. Vivier 7-15-15 1043 C.D. 0. Lumitae 7-15-15 4:15 70 ide (1) Intact Comments Prar J. U.C. D. U.C. D. L.S. 7-15-15 Samples received: N.On.ice (1) Intact Temp		hipped Via	[] Fed X [] Golden State	[] []		Client	XVother						$\hat{\mathbf{A}}$	•
Reference in the state of t	$\begin{array}{c c c c c c c c c c c c c c c c c c c $				-									(

S/S/N (5G)(424 Chain of Custody

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"Your Water and Wastewater Analysis Solution"



04 August 2015

Clinical Lab No.: 15G2143

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

Project Name:Standard AnalysisSub Project:CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 07/23/15. 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 AnalysisWork Order:15G2143Sub Project:CWPF Weekly Compliance AnalysisReceived:07/23/15 16:45Project Manager:Mark AndersenReported:08/04/15						G2143 15 16:45 15		
Filter Effluent Site (Chloramine) #3		15G2143-	01 (Water)		Sample Date	: 07/23/15	10:46	Sampler: Edward	Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qua	alifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/23/15	07/23/15	1530567	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	820	5.0	1000	mg/L	07/23/15	07/24/15	1530390	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/24/15	07/24/15	1530529	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/24/15	07/24/15	1530529	
Reservoir Effluent Site #5		15G2143-	02 (Water)		Sample Date	: 07/23/15	10:49	Sampler: Edward	Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qua	alifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	07/23/15	07/24/15	1530390	

ND Analyte NOT DETECTED at or above the reporting limit

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



Work Order: 15G2143 Report Date: 08/04/2015 Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH		Syste	em: 1910	073
WELL 05 TREATMENT PLANT EFFLUENT	Stat	ion No.: 1910073-0	06		Samp	led: 150723 10:46
COLOR	Result: ND	Units: UNITS	Entry	No.:	00081	Analyzed: 150723
IRON	Result: ND	Units: UG/L	Entry	No.:	01045	Analyzed: 150724
MANGANESE	Result: ND	Units: UG/L	Entry	No.:	01055	Analyzed: 150724
TOTAL DISSOLVED SOLIDS	Result: 820	Units: MG/L	Entry	No.:	70300	Analyzed: 150724

Printed: 08/04/2015 12:46:41 PM Results of 15G2143 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: 15G2143

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 7/24/2015 with the Chain of Custody document. The samples were received in good condition, at 8.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5G24045-01 Sampled by: Client	Sample I Sampled	D: : 07/23	Reservoir 5/15 10:49	Effluent Site	#5/ 150	G2143-02			Ма	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.67		0.010	mg/l	1	RSK-175	7/31/15	7/31/15 12:29	W5G1718	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5G1718 - RSK-175

Blank (W5G1718-BLK1)					Prepared: 07/	31/15	Analyzed: 07/31	/15 11:57	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5G1718-BS1)					Prepared: 07/	31/15	Analyzed: 07/31	/15 12:19	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.182		mg/l	0.198	92	85-115		
Calibration Check (W5G1718-CCV1)					Prepared: 07/	31/15	Analyzed: 07/31	/15 12:08	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00810		mg/l	0.00792	102	50-150		
Calibration Check (W5G1718-CCV2)					Prepared: 07/	31/15	Analyzed: 07/31	/15 11:46	
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 (W5G1718-DUP1)	s	ource: 5G30081	L-01		Prepared: 07/	31/15	Analyzed: 07/31	/15 12:50	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.645	0.580		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 Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15G2143

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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.cod California EDT transfer those samples with PS cod Transfer File requested; log in with Element ID onl Turn Around Time [] 10 Days [√⁶ 5 Days [] 0 	om [v] styles@clinical-lab.com [] cole@clinical-lab.com es provided [] Yes [v] No y [] Yes [v] No Other Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 15G2143-02	Sampled: 07/23/15 10:49 PS Code: Water WTX ID: UCMR ID:
Methane RSK175	Report in mg/L
Containers Supplied:	

40mL Amber Vial HCl (B) 40mL Amber Vial HCl (C)

	8.2	
BJ Slug 07/24/15 07:45	Charge	7-221-15 815
Released By Date / Time	Received B L.S.5 HMAR: 7.24.15	Date / Time /3 - 5 5
Released By Date / Time	Received By	Date / Time

	Clinice	al Laboratory of San Bernard	ino, I	nc.		56	2.	L C					. U/O'/G Cháin of Custody
Client		City of Lomita	Sy	stem N	lumber		Analy	sis Re	duest	ed			
Addres	S	24373 Walnut Avenue		101	0070								
68		Lomita, CA 91717		- - -	c / n n i	÷					Me	Me	
Phone	#	(310) 325-9830	<u>م</u>	estinatic	on Laborat	ory		Το	Ph	Ph	tha	thar	
Fax #		(310) 325-3627		X] Clinic	al Laborat	ory		otal	osp	osn	ne (ne (
Project		Standard Analysis		CDWR (Complianc	9	I	Diss	hate	hori	WA	AIF	
Sub Pr	oject	CWPF Weekly ComplianceAnalysis			YES		ron	solve	e- 0	1010 	TE	R) (A	
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Sample	∋d by	Edward Duriver.			000			ds	P	. P	K17	D194	
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine					(5)	46)	Comments / P.S. Codes
		Raw Water Site #1	DW	1W	НСГ								W13-005
		Raw Water Site #1	ΡŴ	1W	V/N					+			W13-005
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7-23-15	1046	Filter Effluent Site (Chloramine) #3 (1)	DW	1W	N/A	l	×						E13-005A
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7.23-15	1043	Reservoir Effluent Site #5 (t)	DW	1 (B)	V/N	4		×			F(
7.23-15	6401	Reservoir Effluent Site #5 $(\tilde{\lambda})$	DW	(Thi	HCL	,		P			×		
)		
		Zone #2 Site #6	DW	1W	N/A								
Preserva	tives: (1) Na ₃ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix:	DW-Drink	ing Water		eto Ma	tar SM				Cranned Weter A At-
(5)	H2SO4 ((6) Na2SO3 (7) Cold (8) Other:			Type-1	-Routine, 2	-Repea	t, 3-Rep	laceme	-2001	r water Special	- M-M	- Ground Water, A-Air Vell D- Dist.
Reling	quished 1	By (Sign) Print Name / Company	v		Date / J	ïme	┝	Re	ceived	By (S	ign)		Print Name / Company
Z		Elwer Duvive		7.23	- 15-	1846	991	1 10-	A,	010	Z	1	D Phana was 1 CLSS
Ż		City of Lomita		2		445	•			h			We land a month was the
Comm	ents:	repares D'Chapana	(eLS	8	S	amples r	eceive	dí. Cemu	i nO ⁷	L'	AInt JF	act	() Custody seals
Shipped	Via	1 Fed X 1 Golden State	111	I Sd/	Client	[] Other		-					Page_1_of_1

"Your Water and Wastewater Analysis Solution"

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10 August 2015

Clinical Lab No.: 15G2623

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

Project Name:Standard AnalysisSub Project:CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 07/29/15. 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		Su Project	Project: Stan b Project: CW Manager: Mar	dard Ana PF Week k Anderse	lysis ly Compliance A en	analysis		Work Order: Received: Reported:	15G2623 07/29/15 16:45 08/10/15
Filter Effluent Site (Chloramine) #3		15G2623-0	01 (Water)		Sample Date	: 07/29/15	10:15	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/30/15	07/30/15	1531553	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/04/15	08/04/15	1532090	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/04/15	08/04/15	1532090	
Reservoir Effluent Site #5		15G2623-0	02 (Water)		Sample Date	: 07/29/15	10:20	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	710	5.0	1000	mg/L	07/30/15	08/03/15	1531414	

ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Analytical Laboratory Service - Since 1964

Page 1 of 3

 Report Date:
 08/04/15 17:08

 Received Date:
 07/30/15 15:10

 Turnaround Time:
 5 workdays

 Phones:
 (909) 825-7693

 Fax:
 (909) 825-7696

 P.O. #:
 5

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 7/30/2015 with the Chain of Custody document. The samples were received in good condition, at 4.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5G30081-01 Sampled by: Client	Sample II Sampled:	D: 07/29	Reservoir /15 10:20	Effluent Site	#5/ 15	G2623-02			Matrix: Wate		
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier	
Methane	0.64		0.010	mg/l	1	RSK-175	7/31/15	7/31/15 12:40	W5G1718		

Project: 15G2623



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5G1718 - RSK-175

Blank (W5G1718-BLK1)					Prepared: 07/	/31/15 A	Analyzed: 07/31	/15 11:57	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5G1718-BS1)					Prepared: 07/	31/15 A	nalyzed: 07/31	/15 12:19	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.182		mg/l	0.198	92	85-115		
Calibration Check (W5G1718-CCV1)					Prepared: 07/	/31/15 A	analyzed: 07/31	/15 12:08	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00810		mg/l	0.00792	102	50-150		
Calibration Check (W5G1718-CCV2)					Prepared: 07/	/31/15 A	alyzed: 07/31	/15 11:46	
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 (W5G1718-DUP1)	s	ource: 5G30081	L-01		Prepared: 07/	31/15 A	alyzed: 07/31	/15 12:50	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.645	0.580		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 Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Comments / P.S. Codes Print Name / Company) Custody seals Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Page_1_ of_1 THURSDO Prin, Els E13-005A Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. W13-005 W13-005 *()* Infact Methane (AIR) (ASTM D1946) Methane (WATER) (RSK175) × Received By (Sign) × Color Analysis Requested On ice Phosphorus- Total as P Ċ Phosphate- Ortho as P Temp_ × **Total Dissolved Solids** Samples received: **(** Manganese × × Iron [] Other 24:45 Chlorine Total 1203 Date / Time Destination Laboratory [X] Clinical Laboratory **CDWR** Compliance 1910073 Preserv System Number [] Client N/A V/V НСГ HCL A/A N/A ELAP # 1088 21.91 717.9/245 YES Type 1W M IW 1W **1**W **WI** 7 [] Golden State [] UPS Matrix DW ΜQ DW ΜQ DΨ DW Print Name / Company AWAVE 2 Z J Jucoby City of Lomita **CWPF** Weekly ComplianceAnalysis ⁷Filter Effluent Site (Chloramine) #3 Sample Idenitification Preservatives: (1) Na₂S₂O₃ (2) HCI (3) HNO3 (4) NH4CI **Reservoir Effluent Site #5 Reservoir Effluent Site #5** 24373 Walnut Avenue MN1: 121 Lomita, CA 91717 Standard Analysis City of Lomita Raw Water Site #1 Raw Water Site #1 (310) 325-3627 (310) 325-9830Zone #2 Site #6 H2SO4 (6) Na2SO3 (7) Cold (8) Other: Edinan Fed X Elwert Relinduished By/(Sign) Time 0201 Sampled by V01 Sub Project Comments 5 E Commen Shipped Via Address Phone # Project 2 7-20-15 Client 2415 Fax # Date 2007

"Your Water and Wastewater Analysis Solution"

CONLOZZ B/B/3 Chain of Custody



07 August 2015

Clinical Lab No.: 15H0540

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

Project Name:Standard AnalysisSub Project:Cypress Water Treatment Plant Monthly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 08/05/15. 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,

Bob Slaufy

Bob Glaubig For Stu Styles Client Services Manager



Project: Standard Analysis Sub Project: Cypress Water Treatment Plant Monthly Compliance Project Manager: Mark Andersen								:: 15H0540 08/05/15 17:20 08/07/15
	15H0540-0	01 (Water)		Sample Da	te: 07/30/1	5 11:50 S	Sampler:	Edward Duvivier
Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
SM 2540C	620	5.0	1000	mg/L	08/06/15	08/07/15	1532496	5
	Method SM 2540C	SM 2540C 620	Project: Star Sub Project: Cyp Project Manager: Man 15H0540-01 (Water) Method Result Rep. Limit SM 2540C 620 5.0	Project: Standard Anal Sub Project: Cypress Water Project Manager: Mark Anderse 15H0540-01 (Water) Method Result Method Result Rep. Limit MCL SM 2540C 620 5.0 1000	Project: Standard Analysis Sub Project: Cypress Water Treatment P Project Manager: Mark Andersen 15H0540-01 (Water) Sample Date Method Result Rep. Limit MCL Units SM 2540C 620 5.0 1000 mg/L	Project: Standard Analysis Sub Project: Cypress Water Treatment Plant Monthly O Project Manager: Mark Andersen 15H0540-01 (Water) Sample Date: 07/30/15 Method Result Rep. Limit MCL Units Prepared SM 2540C 620 5.0 1000 mg/L 08/06/15	Project: Standard Analysis Sub Project: Cypress Water Treatment Plant Monthly Compliance Project Manager: Mark Andersen 15H0540-01 (Water) Sample Date: 07/30/15 11:50 Sample Date: Method Result Rep. Limit MCL Units Prepared Analyzed SM 2540C 620 5.0 1000 mg/L 08/06/15 08/07/15	Project: Standard Analysis Work Order Sub Project: Cypress Water Treatment Plant Monthly Compliance Received: Project Manager: Mark Andersen Reported: 15H0540-01 (Water) Sample Date: 07/30/15 11:50 Sampler: Method Result Rep. Limit MCL Units Prepared Analyzed Batch SM 2540C 620 5.0 1000 mg/L 08/06/15 08/07/15 1532490

ND Analyte NOT DETECTED at or above the reporting limit

Appendix B

Methane Monitoring Log



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

JULY 2015									
DATE	TIME		METHA	NE HANDHE	LD	COMMENTS			
7/1/2015	3:00 PM	CH4-	0%	Oxy-	19.7%				
7/2/2015	8:30 AM	CH4-	0%	Oxy-	19.7%				
7/3/2015									
7/4/2015									
7/5/2015									
7/6/2015	7:30 AM	CH4-	0%	Oxy-	20.9%				
7/7/2015	12:00 PM	CH4-		Oxy-	20.5%				
7/8/2015	1:45 PM	CH4-	0%	Oxy-	20.9%				
7/9/2015	12:15 PM	CH4-	2%	Oxy-	20.7%				
7/10/2015	1:00 PM	CH4-	0%	Oxy-	20.7%				
7/11/2015									
7/12/2015									
7/13/2015	3:15 PM	CH4-	1%	Oxy-	20.5%				
7/14/2015	10:30 AM	CH4-	2%	Oxy-	20.8%				
7/15/2015	3:15 PM	CH4-	1%	Oxy-	20.7%				
7/16/2015	2:15 PM	CH4-	0%	Oxy-	19.7%				
7/17/2015									
7/18/2015									
7/19/2015									
7/20/2015	3:00 PM	CH4-	1%	Oxy-	20.5%				
7/21/2015	3:00 PM	CH4-	0%	Oxy-	20.8%				
7/22/2015	12:00 PM	CH4-	0%	Oxy-	20.5%				
7/23/2015	12:00 PM	CH4-	0%	Oxy-	20.7%				
7/24/2015	7:50 AM	CH4-	0%	Oxy-	20.5%				
7/25/2015		CH4-		Oxy-					
7/26/2015		CH4-		Oxy-					
7/27/2015	12:00 PM	CH4-	0%	Oxy-	20.5%				
7/28/2015	8:15 AM	CH4-	0%	Oxy-	20.1%				
7/29/2015	3:20 PM	CH4-	0%	Oxy-	21.0%				
7/30/2015	2:15 PM	CH4-	0%	Oxy-	20.8%				
7/31/2015		CH4-		Oxy-					
ND- Non De	etect								
CH4- Metha	ne								
Oxy- Oxyge	n								
Weekend/D	ay Off/Holi	day- Red							