CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

APRIL 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

May 10, 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 (CWPF) for the period of April 1 through April 30, 2016.</u>

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 April 2016.

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

Sincerely,

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 April 2016, the CWPF operated on a fill and draw cycle providing blended water with the reservoir level fluctuating with system demand. The Cypress Reservoir operated as follows: filled for 14 days and drew down for 16 days.

The total production from Well No. 5 for the month was approximately 66.27 ac-ft (21,593,526 gallons) with a daily production of approximately 4.73 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 109.09 ac-ft (35,545,517 gallons) for the month with a combined daily production of approximately 7.79 ac-ft.

The daily average flow from Well No. 5 was 1,095 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 61% Well water and 39% MWD water.

C. OPERATIONAL INTERRUPTIONS

There were no operational interruptions during the month of April 2016. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruptions are anticipated for the following month.

D. SAMPLE LOCATIONS

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

E. WATER QUALITY MONITORING

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

E1. IRON, MANGANESE AND COLOR

See Table 1 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color and Iron in the raw water (SP1) for the month were below the MCL. Manganese concentrations in the raw water (SP1) were 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 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 708 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 710 mg/L and 730 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 330 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 0.88 mg/L.

E3-4 METHANE (IN AIR)

The methane levels in the reservoir headspace are monitored daily by staff using a handheld device. These readings have consistently read non-detect to low concentrations for methane in air. Available methane hand held monitoring instruments can only detect levels of 1% Lower Explosive Limit (LEL) or greater. The handheld methane readings during the month were below the 50,000 ppm LEL. See attached methane log for the month of April 2016 in Appendix B.

E4. NITRIFICATION MONITORING

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

F. TABLES

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

		SP1, V	Vell Raw	/ Water	Discha	irge		Pres	Comb sure F	ilter	SP3, /		nloramin reservoir			xer;
Date, week of	Iron, ug/L	*MCL = 3 00 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
4/6/2016	170	300	110	50	10	15	Α	Α	А	500	ND	300	ND	50	ND	15
4/13/2016											ND	300	ND	50	7.5	15
4/20/2016											ND	300	ND	50	5	15
4/27/2016			4								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

Table 2. 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 CI	Total NH₃	Free CI	Total CI	Total NH ₃	Free CI	Total CI	Total NH ₃
4/6/2016	4.00	0.23	4.45	0.72	0.33	3.79	0.67	0.05	2.49	0.57
4/13/2016	4.66	0.27	3.83	0.62	0.23	3.51	0.69	0.08	2.56	0.61
4/20/2016	5.15	0.31	3.97	0.73	0.13	3.54	0.67	0.07	2.53	0.61
4/27/2016	6.36	0.30	4.97	0.73	0.13	4.14	0.69	0.23	2.79	0.67

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

		TD	S, mg/L		T.C).N.	Hardn	ess, mg/L		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
4/6/2016	710	730	720	500-750	5	3	340		7.7	0.83
4/13/2016			680	500-750			330	180-250	11 11	0.86
4/20/2016			730	500-750			320	180-250		0.94
4/27/2016			*700	500-750			330			0.87
Average			708	500-750			330	180-250		0.88

Notes: Monthly- Orange

Weekly- Yellow

ppm – parts per million mg/L – milligram per liter

T.O.N. - Threshold Odor Number TDS - Total Dissolved Solids Hardness - As total CaCO3

Methane (Water) - Methane dissolved in water

*Read from 5/4/16

Monthly CWPF Monitoring Report – <u>APRIL 2016</u> Cypress Water Production Facility City of Lomita; System No. 1910073

Comple Legations	Frequency		The second second second second	a; System	_	The same of the sa	NI/A	T 0
Sample Locations	Frequency	MCL/	4/6	4/13	4/20	4/27	N/A	Comments
and Parameters	1	Goal	1stWk	2 nd Wk	3rdWk	4 th Wk	5 th Wk	and/or
	-		or Mo.	1			- 1	Other Info.
			Result					
			(date)					
SP1 Also called	Well 5 Ray	v Water o						
TDS, ppm	Monthly	See SP5	710	Operations	Data/Inforr	nation:		APRIL 2016- No
		See SP5	(4/6) N/A	5.			120	operational
Hardness	Monthly	52 51 51 50 1	V 0.000 B		ation days – 3 isolation days	0 days (14 fill	days; 16	interruptions. *Chlorine injected after
CH4, ppm	Monthly	See SP5	7.7 (4/6)	On Well 5:	Daily average	flow - 1095 gp	m; APRIL	SP1, before entering
Iron, ppb	Monthly	See SP3	170 (4/6)			; Daily prod. – ata: Average V		the greensand filter.
Manganese, ppb	Monthly	See SP3	110	blend Ratio -	61%:39%; AF	PRIL 2016 tota / prod. – 7.79 A	ıl prod	
Color, units	Monthly	See SP3	(4/6) 10	20 E 1000		/ prod.– 7.78 /	N.	
Total Coliform, P or A	Monthly	А	(4/6) A	Chlorine Do	sage: N/A*			
SP2 Also called	Filtor Efflu	ont or Si	(4/6)				***************************************	
Total Coliform, P or A	Monthly	A	A A					*Ammonia added after
			(4/6)	Ammonia D	osage: N/A*			filter effluent
HPC,MPN/100 ml	Monthly	500	A (4/6)					
Free Cl Res, ppm	Continuous			ge: 4. <mark>00 – 6</mark>				
SP3 Also called	the Site Af	ter Chlo	raminatio	n & Before	MWD BI	ending or	Site#4.	8
Iron, ppb	Weekly	300	ND	ND	ND	ND		
Manganese, ppb	Weekly	50	ND	ND	ND	ND		
Color	Weekly	15	ND	7.5	5	ND]
Free and Total CI Res,	Continuous			8; Range: 0.				
ppm				31; Range: 3				
SP4 Also called	Posorvoir			.70; Range: (Pland Do	int/Dhoon	hata Injection
Phosphate Injection	I Cesei voii		e Dosage: 2		VD Water	Diella Fo	IIIu/FIIOSp	l
Free and Total Cl Res,	Continuous	THE RESERVE THE PERSON NAMED IN COLUMN 1		0; Range: 0.	13 _ 0 33			CI/NH3 Ratio:
ppm				4; Range: 3				5.52,
PP				.68; Range:				chloramintaed water
SP5 Also called	Posorvoir	Effluent	or Sito#5	SDE dico	harace in	to Zono 1	of the die	into the Reservoir
TDS, ppm	Weekly	SI Goal:	720	680	730	*700	or the dis	*Read from 5/4/16.
тъз, ррпі	VVECKIY	500-750ppm	120	000	750	700		Missed last week of
Hardness	Monthly	SI Goal:	340	330	320	330		April 2016
CH4, ppm	Weekly	180-250ppm Goal: from PA	0.83	0.86	0.94	0.87		% CH4 Removal:
0.1	Manthh							89%
Odor, units Free and Total Cl Res,	Monthly Continuous	5 Froe Ch	A. (0.40.40.10.10.1	1. Dance 0	05 0.00			OVAILIO Deties
	Continuous			1; Range: 0. 9; Range: 2.				CI/NH3 Ratio: 4.21,
ppm				.62; Range:				chloraminated water
			. / Wordgo. U	.oz, rango.	0.07			supplied Zone I
Headspace of the C			-					·
¹ CH4 ppmv; using	Daily	Goal -		age: 0.2%				
Portable Device	(from log)	LEL		ge: 0% - 1%				
SP 6 MWD Source		CWPF.	Also calle		of the dist	ribution s		Site #6.
TDS, ppm	Monthly			730			None	
Hardness	Monthly			N/A			None	
Notes: 1Self-Imposed (SI) G	oals: TDS Goa	-500-750 pp	m; Hardness a	as CaCO3 Goa	l-180-250 ppn	٦.		
***This Report is du	ie to DDW	by the 10	" of the f	ollowing r	nonth.			
								Control of the Contro

APPENDIX A

LABORATORY RESULTS



06 May 2016 Clinical Lab No.: 16D2019

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Sampling 4th Week April

Enclosed are the results of the analyses for samples received at the laboratory on 04/27/16. 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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:16D201924373 Walnut AvenueSub Project:CWPF Weekly Compliance Sampling 4th Week April Received:04/27/16 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:05/06/16

Filter Effluent Site #3		16D2019-0	01 (Water)		Sample Da	te: 04/27/16	5 8:30 Sa :	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4.76		N/A	mg/L	04/27/16	04/27/16	1618293	
pH (Field)	Field	7.69		N/A	pH Units	04/27/16	04/27/16	1618293	
Temperature (Field)	Field	20.7		N/A	°C	04/27/16	04/27/16	1618293	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	04/27/16	04/27/16	1618289	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	750	5.0	1000	mg/L	04/27/16	04/28/16	1618213	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/28/16	04/29/16	1618261	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/28/16	04/29/16	1618261	
Reservoir Effluent Site #5		16D2019-0	02 (Water)		Sample Da	te: 04/27/16	6 8:45 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.19		N/A	mg/L	04/27/16	04/27/16	1618293	
pH (Field)	Field	7.68		N/A	pH Units	04/27/16	04/27/16	1618293	
Temperature (Field)	Field	20.1		N/A	°C	04/27/16	04/27/16	1618293	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	330	6.6	N/A	mg/L	05/02/16	05/02/16	[CALC]	
Metals									
Calcium (Ca)	EPA 200.7	85	1.0	N/A	mg/L	05/02/16	05/02/16	1619005	
Magnesium (Mg)	EPA 200.7	28	1.0	N/A	mg/L	05/02/16	05/02/16	1619005	
ND Analyte NOT DETECTED at or	above the reporting limit	t							

EDT Transfer Confirmation 1



Entry No.: 70300 Analyzed: 160428

Work Order: 16D2019 Report Date: 05/05/2016

TOTAL DISSOLVED SOLIDS

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

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

COLOR

Result: ND

Units: UNITS

Entry No.: 01055 Analyzed: 160427

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055 Analyzed: 160429

Result: 750 Units: MG/L



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 05/04/16 17:14 Received Date: 04/28/16 11:20 Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Attn: John Styles

Project: 16D2019

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 4/28/2016 with the Chain of Custody document. The samples were received in good condition, at 1.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6D28026-01	Sample	ID: F	Reservoir E	ffluent Site	#5 / 16	D2019-02			Ma	atrix: Water
Sampled by: Client	Sampled	l: 04/27/	16 08:45							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.87		0.010	mg/l	1	RSK-175	5/3/16	5/3/16 17:16	W6E0201	

6D28026 Page 1 of 3





Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W6E0201-BLK1)					Prepared: 05	/03/16 Ana	alyzed: 05/03	3/16 16:16	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W6E0201-BS1)					Prepared: 05	/03/16 Ana	alyzed: 05/03	3/16 15:56	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.186		mg/l	0.198	94	85-115		
Duplicate (W6E0201-DUP1)	So	urce: 6D2802	6-01		Prepared: 05	/03/16 Ana	alyzed: 05/03	3/16 17:35	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.872	0.950		mg/l				8	20

6D28026 Page 2 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

Authorized Signature











ELAP # 1132 LACSD # 10143 **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

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).

Subcontracted analysis, original report enclosed. Sub

DL Method Detection Limit RL Method Reporting Limit MDA Minimum Detectable Activity

NR Not Reportable

6D28026 Page 3 of 3

16D2019	Chain of Custody

=	City of Lomita	Š	stem N	System Number		Analysis	sis Re	Reduested	pe				
Address	24373 Walnut Avenue		3	100		_			-				
	Lomita, CA 91717		191	1910073									
Phone #	(310) 325-9830	ă	Stinatic	Destination Laboratory	tory				leth				
Fax#	(310) 325-3627	_	(] Clinic	[X] Clinical Laboratory	tory		Tota		ane				
Project	Standard Analysis		WOCB	RWQCB Compliance	. 92								
Sub Project	CWPF Weekly Compliance Sampling 4th week April		III.	No FIAP#		nganese Iron	solved S	Color	rdness ater) (
Comments	•		•										
Sampled by	DGM		_	1088			•		 < 175				
Date	Time Sample Idenitification	Matrix	Туре	Preserv	Total Chlorine			,				Comments / P.S. Codes	səp
300000	MARY Efficant City #3				1				+				
	C# DIEG FILINGIE DIEG #2	š	× ×	N/A	7.16	×	×	×	+		H_	-167EMP = 20.	N
4/27/2016	Reservoir Effluent Site #5	DW	<u>¥</u>	V/N	3.19								
4/27/2016	6 P5 Reservoir Effluent Site #5	DW	<u>×</u>	HCL,	3.19								
4/27/2016	Reservoir Effluent Site #5	DW	W.	V/N	3.19				×		PH	PH =769FMP = 10	
						-			+				
								1	+		+		
-							F		+				
							L						
									+				
Preservatives: (Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO3 (4) NH4Cl		Matrix:	DW-Drink	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water.	WW-Was	ste Wat	er, SW	Storm	Water.		GW- Ground Water, A-Air	T
(5) H2SO4	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:			Type- 1	Type- 1-Routine, 2-Repeat, 3-Reptacement, 4-Special W-Well D-Dist.	-Repeat	, 3-Rep	facem	int, 4-5	pecial		D- Dist.	
Retinguis	Relinquished By (Sign) Print Name / Company			Date / Time	Тіте	$\left(-\right.$	V Re.	Regiment	By (Sign)	(us		Print Name / Copup	0 721
Daniel Mateik	City of Lbmita	,	4/27/2016	/ 91	: 15	A	D		1	(1,	S. LUCAMC	4
*	A WALLOW COS	7	4.75	2	3:30		1	M	\mathbb{A}	1	7	1. GWF 700	Q
Comments:					Samples rekeiyed: To	ekeiyed T	T and a	まご	ر _ د/	() Intact) F	~ Z) Custody seals)
Shipped Via	Fed X Golden State	I I UPS	[] Client		Other						Page	_l_of_l_	



10 May 2016 Clinical Lab No.: 16E0492

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

Project Name: Standard Analysis
Sub Project: Monthly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 05/04/16 . 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,

DRAFT REPORT
DATA SUBJECT TO CHANGE



Lomita, City ofProject:Standard AnalysisWork Order:16E049224373 Walnut AvenueSub Project:Monthly ComplianceReceived:05/04/16 15:30Lomita CA, 91717Project Manager:Client UserReported:05/10/16

Lomita CA, 91717		Project	Manager: Clie	ent User			R	Reported: (05/10/16
Raw Water Site #1		16E0492-	01 (Water)		Sample Date	: 05/04/16	7:20 Sa	ampler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Clinical Laboratory of San Bernardino									
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	710	5.0	1000	mg/L	05/05/16	05/06/16	1619342	
Zone #2 Site #6		16E0492-	04 (Water)		Sample Date	: 05/04/16	7:55 Sa	impler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Clinical Laboratory of San Bernardino									
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	650	5.0	1000	mg/L	05/05/16	05/06/16	1619342	
				1000					
Reservoir Effluent Site #5		16E0492-	05 (Water)		Sample Date	: 05/04/16	7:50 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Clinical Laboratory of San Bernardino									
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	/I	05/05/16	05/06/16	1619342	
			5.0	1000	mg/L	03/03/10	05/00/10	1019342	
ND Analyte NOT DETECTED at or above	me reporting limi	IL							



05 May 2016 Clinical Lab No.: 16D1602

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Sampling 3rd Week April

Enclosed are the results of the analyses for samples received at the laboratory on 04/20/16 . 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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:16D160224373 Walnut AvenueSub Project:CWPF Weekly Compliance Sampling 3rd Week April Received:04/20/16 16:00Lomita CA, 91717Project Manager:Mark AndersenReported:05/05/16

Filter Effluent Site #3		16D1602-	01 (Water)		Sample Da	te: 04/20/10	5 7:40 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.9		N/A	mg/L	04/20/16	04/20/16	1617383	
pH (Field)	Field	7.44		N/A	pH Units	04/20/16	04/20/16	1617383	
Temperature (Field)	Field	20.5		N/A	°C	04/20/16	04/20/16	1617383	
General Physical Analyses									
Apparent Color	SM 2120B	5.0	3.0	15	Color Units	04/20/16	04/21/16	1617347	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	750	5.0	1000	mg/L	04/22/16	04/26/16	1617352	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/28/16	04/29/16	1618261	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/28/16	04/29/16	1618261	
Reservoir Effluent Site #5		16D1602-	02 (Water)		Sample Da	te: 04/20/10	5 7:50 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.46		N/A	mg/L	04/20/16	04/20/16	1617383	
pH (Field)	Field	7		N/A	pH Units	04/20/16	04/20/16	1617383	
Temperature (Field)	Field	19.3		N/A	°C	04/20/16	04/20/16	1617383	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	320	6.6	N/A	mg/L	04/28/16	04/28/16	[CALC]	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	82	1.0	N/A	mg/L	04/28/16	04/28/16	1618171	
Magnesium (Mg)	EPA 200.7	28	1.0	N/A	mg/L	04/28/16	04/28/16	1618171	
ND Analyte NOT DETECTED at or	r above the reporting limit	t							



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 04/25/16 15:47 Received Date: 04/22/16 10:09 Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 16D1602

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 4/22/2016 with the Chain of Custody document. The samples were received in good condition, at 0.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6D22007-01	Sample	ID: F	Reservoir E	ffluent Site	#5 / 16	D1602-02			Ma	atrix: Water
Sampled by: Client	Sample	d: 04/20/1	6 07:50							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.94	0.0012	0.010	ma/l	1	RSK-175	4/22/16	4/22/16 14:03	W6D1185	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

atch W6D1185 - RSK-175									
Blank (W6D1185-BLK1)					Prepared: 04	/21/16 Ana	alyzed: 04/2	1/16 20:57	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W6D1185-BS1)					Prepared: 04	/21/16 Ana	alyzed: 04/2	1/16 21:37	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.195		mg/l	0.198	99	85-115		
Duplicate (W6D1185-DUP1)	Sc	urce: 6D1503	7-01		Prepared: 04	/21/16 Ana	alyzed: 04/2	1/16 22:16	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.863	0.884		mg/l				2	20





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

Authorized Signature











ELAP # 1132 LACSD # 10143 **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

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).

Subcontracted analysis, original report enclosed. Sub

DL Method Detection Limit RL Method Reporting Limit MDA Minimum Detectable Activity

NR Not Reportable

6D22007 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

16D1602

6122007

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 California EDT transfer those samples with PS codes Transfer File requested; log in with Element ID only Furn Around Time [] 10 Days [5 Days [] O Subcontract Comments:	
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 16D1602-02	Sampled: 04/20/16 07:50 PS Code: Water WTX ID:
Methane RSK175	Report in mg/L
ontainers Supplied:	
Oml Amber Vial (B) 40ml Amber Via	ıl (C)

Released By Date / Time Received By Date / Time O.96

Released By Date / Time Received By Date / Time O.96

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

Clinical Laboratory of San Bernardino, Inc.

160 1602

Client	City of Lomita	Sy	System Number	umber		Ana	ysis	Analysis Requested	este	75				
Address	24373 Walnut Avenue		2	0073			\vdash	_						
	Lomita, CA 91717		<u> </u>	1910015	_				M					
Phone #	(310) 325-9830	Q	estínatio	Destination Laboratory	vo,			,	leth					
Fax#	(310) 325-3627		K] Clinic	[X] Clinical Laboratory	ory			Tota	ane		_			
Project	Standard Analysis		RWOCE	RWQCB Compliance	Ç									
Sub Project	CWPF Weekly Compliance Sampling 3rd week April		Į ū	No FIAP#		Iron	nganese	color solved S	ater)	rdness				
Comments								Solids	RSF					
Sampled by	DGM		=	1088					K175					
Date Time	ne Sample Idenitification	Matrix	Jype.	Preserv	Total Chlorine)				Comments / P.S. Codes	les
47000016					1		+	-						
	C //C Filter Emilient Site #3	<u>*</u>	<u>*</u>	V/V	27.6	×	×	x	_	\bot			PH = 1445MP = 20	4
4/20/2016 Q7	Ø 750 Reservoir Effluent Site #5	MG MG	3	Š	777.4			-	-			+		T
4/20/2016	Reservoir Effluent Site #5 (2)	DW	<u>*</u>	HCI,	:		T	+	×					
4/20/2016	Reservoir Effluent Site #5	MG.	3	\Z	1,		\dagger	-	-	,		Hd	DI = T * TEMP = 10	7
						1	T	-	\perp			-		7
						T		-	-			-		
							H					H		
						\top	+	-	+	\perp				
						1	+	+-	-					
Preservatives: (1)	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI (5) H2SO4 (6) Na ₂ SO ₃ (7) Cold (8) Other		Matrix:	DW-Drink	V-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground W.	WW-W	Vaste	Water,	SW-S	torm	Water,	GW-G	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	
Rolinguish	Refinantshed Ris (Ston) Drint Anna Commons			Dist.	-Noutile, 4)		- C	, 1 3) acidi	M-Wei	r v- vist.	
				Date /	, me	7		Kece	2	y (Sign)	2		Frim Name Compa	2 d
Danjer Imotely	t		4/20/2016	910	4.15	4		M	7		X	(T. LUCONICE	7
**************************************	ACD MONTO		7.02.6	+	3	7	Y		1	1	\downarrow	\dashv	Mans	
Comments:				n 	Samples received: (Ter	cceiv	ed: 6	η Γ	ू इ ट	7 -	Tntact	ج ع) Chstody seals	
Shipped Via	Fed X Golden State	I J UPS	Client		Other							Sage &	1 Jo +	
				İ								8	4	

"Your Water and Wastewater Analysis Solution"



03 May 2016 Clinical Lab No.: 16D1729

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 04/22/16 . 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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:16D172924373 Walnut AvenueSub Project:CWPF Weekly Compliance SamplingReceived:04/22/16 14:55Lomita CA, 91717Project Manager:Mark AndersenReported:05/03/16

Reservoir Effluent Site #5		16D1729-0	01 (Water)		Sample Da	ate: 04/22/10	6 9:30 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
pH (Field)	Field	7.66		N/A	pH Units	04/22/16	04/22/16	1617428	
Temperature (Field)	Field	20.2		N/A	°C	04/22/16	04/22/16	1617428	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	730	5.0	1000	mg/L	04/26/16	04/27/16	1618118	
ND Analyte NOT DETECTED at or	above the reporting limit	t							

16D1729 Chain of Custody
0/9/1

		., (,			Allaiya	Alialysis nequested	מאופת			
Address	24373 Walnut Avenue		1010073	7.2						
	Lomita, CA 91717		13100	2			M			
Phone #	(310) 325-9830	Des	Destination Laboratory	oratory			eth			
Fax #	(310) 325-3627	X	[X] Clinical Laboratory	oratory		Fotal	ane			
Project	Standard Analysis	RI	RWQCB Compliance	liance	Man I	Diss				
Sub Project	CWDF Wookly Compliance Campling		No		ron	olor				
333	Sunding Southmance Sampang		ELAP#		ese					
Comments			4000			lids	RSK			
Sampled by	DGM	T	0001				[175]			
Date Time	Sample Idenitification	Matrix	Type Presenv	Total Chlorine	1)		Comments / P.S. Codes	
4/22/2016 ØF3Ø Re	# Reservoir Effluent Site #5	DW	1W N/A			×			PH: 7,66 TEMP: 26.2	
reservatives: (1) Na ₂ S ₂ C	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix: DW-C	rinking Water	, WW-Was	ste Water	SW-Storm	Nater, G	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	
(5) H2SO4 (6) Na2S	old (8) Other:		λ, ,	lype- 1-Routine,	z-ĸepeat,	з-керіа	2-Kepeat, 3-Keplacement, 4-Special		W-Well D- Dist.	114 114 114 114 114 114 114 114 114 114
iished			Dai	Date / Time		Repe	Repetred By (Sygn)	2	Print Name / Company	90
Danjer Mateik	City of Lomita		4/22/2016	711	$\frac{1}{1}$		180	22	Vilhapanol	70
Ly Hopains	D. Chapparrol C	1.50	4	258	_	ħ	W I,			
Comments:	•			Samples receiveder	received T	کے کے	On ice ((X) 8.1 ((X) Intact () F (t () Custodý seals (≪) C	
Shipped Via	[] Fed X [] Golden State	san []	Client	[] Other					Page_1_ of_1_	



29 April 2016 Clinical Lab No.: 16D1079

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 04/13/16 . 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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:16D107924373 Walnut AvenueSub Project:CWPF Weekly Compliance SamplingReceived:04/13/16 16:00Lomita CA, 91717Project Manager:Mark AndersenReported:04/29/16

Filter Effluent Site #3		16D1079-0	01 (Water)		Sample Da	te: 04/13/16	6:00 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	3.48		N/A	mg/L	04/13/16	04/13/16	1616457	
pH (Field)	Field	7.5		N/A	pH Units	04/13/16	04/13/16	1616457	
Temperature (Field)	Field	19.1		N/A	°C	04/13/16	04/13/16	1616457	
General Physical Analyses									
Apparent Color	SM 2120B	7.5	3.0	15	Color Units	04/13/16	04/13/16	1616423	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/25/16	04/26/16	1618019	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/25/16	04/26/16	1618019	
Reservoir Effluent Site #5		16D1079-0	02 (Water)		Sample Da	te: 04/13/16	5:45 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.82		N/A	mg/L	04/13/16	04/13/16	1616457	
pH (Field)	Field	7.4		N/A	pH Units	04/13/16	04/13/16	1616457	
Temperature (Field)	Field	21.2		N/A	°C	04/13/16	04/13/16	1616457	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	330	6.6	N/A	mg/L	04/25/16	04/25/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	680	5.0	1000	mg/L	04/15/16	04/19/16	1616428	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	87	1.0	N/A	mg/L	04/25/16	04/25/16	1618020	
Magnesium (Mg)	EPA 200.7	27	1.0	N/A	mg/L	04/25/16	04/25/16	1618020	
					-				

EDT Transfer Confirmation 1



Work Order: 16D1079
Report Date: 04/29/2016

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

System: 1910073 LOMITA-CITY, WATER DEPT. User ID: 4TH WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 160413 06:00 Result: 7.5 Units: UNITS Entry No.: 00081 Analyzed: 160413 Entry No.: 01045 Analyzed: 160426 IRON Result: ND Units: UG/L MANGANESE Entry No.: 01055 Analyzed: 160426 Result: ND Units: UG/L



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 04/22/16 14:54
Received Date: 04/15/16 11:17
Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 16D1079

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 4/15/2016 with the Chain of Custody document. The samples were received in good condition, at 2.5 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6D15037-01	Sample	ID: R	Reservoir E	Effluent Site	#5 / 16	D1079-02			Ma	atrix: Water
Sampled by: Client	Sample	d: 04/13/ 1	6 05:45							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.86	0.0012	0.010	mg/l	1	RSK-175	4/21/16	4/21/16 21:57	W6D1185	

6D15037 Page 1 of 3



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W6D1185-BLK1)					Prepared: 04	/21/16 Ana	alyzed: 04/2	1/16 20:57	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W6D1185-BS1)					Prepared: 04	/21/16 Ana	alyzed: 04/2	1/16 21:37	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.195		mg/l	0.198	99	85-115		
Duplicate (W6D1185-DUP1)	s	ource: 6D1503	7-01		Prepared: 04	/21/16 Ana	alyzed: 04/2	1/16 22:16	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.863	0.884	•	mg/l				2	20



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

Authorized Signature











ELAP # 1132 LACSD # 10143 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:

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

6D15037 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

16D1079

SENDING LABORATORY:

RECEIVING LABORATORY:

Ced15037

	ino 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 Ma [] glaubig@clinical-lab.com	ager: Stu Styles ybarra@clinical-lab.com [/] styles@clinical-lab.com [] nelson@clinical-lab.com	
California EDT transfer the Transfer File requested; lo	se samples with PS codes provided [] Yes [No in with Element ID only [] Yes [No	
	rs [1/5 Days [] Other Days	
Subcontract Comments: Analysis	Comments	
Subcontract Comments:	Comments	
Subcontract Comments: Analysis	Comments 5 / 16D1079-02 Sampled: 04/13/16 05:45 PS Code:	
Subcontract Comments: Analysis Sample ID: Reservoir Effluent Sit	Comments 5 / 16D1079-02 Sampled: 04/13/16 05:45 PS Code: Water WTX ID:	

Released By

Date / Time

Received By

Received By

Received By

Date / Time

Received By

Date / Time

Date / Time

Date / Time

Date / Time

Client		City of Lomita	Š	System Number	umber		Analy	Analysis Requested	edne	sted				
Address		24373 Walnut Avenue		7	0010		-	_				_		
		Lomita, CA 91717		200	1910073				•	M	-			
Phone #		(310) 325-9830	ā	estinatio	Destination Laboratory	tory	-			leth				
Fax#		(310) 325-3627	2	(] Clinic	[X] Clinical Laboratory	ony		Tota		ane				
Project		Standard Analysis	1	WOCB	RWQCB Compliance	93			C	(W	Hai			
Sub Project		CWPF Weekly Compliance Sampling		딥	№ ELAP#		ron	solved S	olor	ater) (rdness			
Comments					0		-	olids		RSk				
Sampled by		DGM		Ē	1088					K175				
Date	Time	Sample Idenitification	Matrix	Турс	Preserv	Total Chlorine)			Comments / P.S. Codes	sepo
1	1											H		
4-13-16 6	מנימה	4-63-4 ひんぴ Filter Effluent Site #3	DW	<u>*</u>	V/N	3,48	<u></u>		×				PH =7,5TEMP = 19,	
4-13-16 6	0.545	4-13-16 (1545) Reservoir Effluent Site #5	PW O	1	ŠŽ	187		-			+	+		
4-13-16	Ĥ	Reservoir Effluent Site #5	DW	WI W	HCI,	2		+		×	+	+		
	11	Reservoir Effluent Site #5	DW	NI NI	V/N		-				×	-) = TYTEMP = 76	
							\vdash					-		7
								-				+		
							+	\perp			+			
							-	-			+			
Preservatives:	(1) Na ₂ ;	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO3 (4) NH4Cl		Matrix:	DW-Drink	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water,	WW-Wa	ste W	ster, S	W-Sto	rm Wa	ter, GV	GW- Ground Water, A-Air	
(5) H2SO4	4 (6) Na	cold (8) Other:			Type- 1	-Routine, 2-	Repea	t, 3-Re	placer	nent,	4-Spec.	ial W-	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.	
Relingui	ished 1	Relinquished By (Sign) Print Name / Company			Date / 7	Time		\$\lambda{\chi}	Ceipe	d By	(Sign)		Print Name / Comp	au's
DanierWater	3	City of Lomita		4-13	1/6/	02:21	H	#	7		(5. Mag/0/C	75
Z /	3	- 5.www/US		4.13	16.	4.8	\dashv	1	4	3	4	1	K. K.MMI G.	
Comments:)				S	Samples received:	ceive(\$\hat{\psi}_2		<u>1</u> ()		() Custody seals	
Shipped Via		Fed X Golden State	l UPS	Client		Other				†			Page 1 of 1	
													1	1



22 April 2016 Clinical Lab No.: 16D0508

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

Project Name: Standard Analysis

Sub Project: Monthly / Weekly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 04/06/16 . 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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProject:Standard AnalysisWork Order:16D050824373 Walnut AvenueSub Project:Monthly / Weekly ComplianceReceived:04/06/16 16:00Lomita CA, 91717Project Manager:Client UserReported:04/22/16

Raw Water Site #1		16D0508-0	01 (Water)		Sample Da	te: 04/06/10	6 6:35 Sa	mpler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0.07		N/A	mg/L	04/06/16	04/06/16	1615569	
pH (Field)	Field	7.17		N/A	pH Units	04/06/16	04/06/16	1615528	
Temperature (Field)	Field	19.8		N/A	°C	04/06/16	04/06/16	1615529	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	04/06/16	04/07/16	1615399	
E. Coli	SM 9223	A		N/A	P/A	04/06/16	04/07/16	1615399	
Plate Count	SM9215B	100	1	500	CFU/ml	04/06/16	04/08/16	1615576	HT-08
General Physical Analyses									
Apparent Color	SM 2120B	10.0	3.0	15	Color Units	04/06/16	04/06/16	1615403	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	710	5.0	1000	mg/L	04/08/16	04/11/16	1615492	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	170	100	300	ug/L	04/13/16	04/13/16	1616107	
Manganese (Mn)	EPA 200.7	110	20	50	ug/L	04/13/16	04/13/16	1616107	
Filter Effluent (Free Chlorine) Site #2		16D0508-0	02 (Water)		Sample Da	te: 04/06/16	6 6:50 Sa	mpler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	5		N/A	mg/L	04/06/16	04/06/16	1615527	
pH (Field)	Field	7.62		N/A	pH Units	04/06/16	04/06/16	1615528	
Temperature (Field)	Field	21		N/A	°C	04/06/16	04/06/16	1615529	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	04/06/16	04/07/16	1615399	
E. Coli	SM 9223	A		N/A	P/A	04/06/16	04/07/16	1615399	
Plate Count	SM9215B	ND	1		CFU/ml	04/06/16	04/08/16	1615576	HT-08



Lomita, City ofProject:Standard AnalysisWork Order:16D050824373 Walnut AvenueSub Project:Monthly / Weekly ComplianceReceived:04/06/16 16:00Lomita CA, 91717Project Manager:Client UserReported:04/22/16

Filter Effluent (Total Chlorine) Site #3		16D0508-0	03 (Water)		Sample Da	te: 04/06/16	7:00 Sa	mpler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4		N/A	mg/L	04/06/16	04/06/16	1615527	
pH (Field)	Field	7.63		N/A	pH Units	04/06/16	04/06/16	1615528	
Temperature (Field)	Field	20.3		N/A	°C	04/06/16	04/06/16	1615529	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	04/06/16	04/06/16	1615403	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	780	5.0	1000	mg/L	04/08/16	04/11/16	1615492	
<u> 1etals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/13/16	04/13/16	1616107	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/13/16	04/13/16	1616107	
Zone #2 Site #6		16D0508-0	04 (Water)		Sample Da	te: 04/06/16	6:40 Sa	mpler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
ield Analyses									
Cl Res Total (Field)	Field	2.2		N/A	mg/L	04/06/16	04/06/16	1615527	
pH (Field)	Field	8.16		N/A	pH Units	04/06/16	04/06/16	1615528	
Temperature (Field)	Field	17.6		N/A	°C	04/06/16	04/06/16	1615529	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	730	5.0	1000	mg/L	04/08/16	04/11/16	1615492	



Lomita, City ofProjectStandard AnalysisWork Order:16D050824373 Walnut AvenueSub Project:Monthly / Weekly ComplianceReceived:04/06/16 16:00Lomita CA, 91717Project Manager:Client UserReported:04/22/16

Reservoir Effluent Site #5		16D0508-0	05 (Water)		Sample Da	ote: 04/06/16	6 6:30 Sa	mpler: D	GM
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.64		N/A	mg/L	04/06/16	04/06/16	1615527	
pH (Field)	Field	7.23		N/A	pH Units	04/06/16	04/06/16	1615528	
Temperature (Field)	Field	18.9		N/A	°C	04/06/16	04/06/16	1615529	
General Physical Analyses									
Odor Threshold	EPA 140.1M	5	1	3	TON	04/06/16	04/06/16	1615403	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	340	6.6	N/A	mg/L	04/14/16	04/14/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	720	5.0	1000	mg/L	04/08/16	04/11/16	1615492	
Metals									
Calcium (Ca)	EPA 200.7	87	1.0	N/A	mg/L	04/14/16	04/14/16	1616286	
Magnesium (Mg)	EPA 200.7	30	1.0	N/A	mg/L	04/14/16	04/14/16	1616286	

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

EDT Transfer Confirmation 1



Work Order: 16D0508 Report Date: 04/22/2016

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

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073 Station No.: 1910073-003 WELL 05 Sampled: 160406 06:35 COLOR Result: 10.0 Units: UNITS Entry No.: 00081 Analyzed: 160406 IRON Result: 170 Units: UG/L Entry No.: 01045 Analyzed: 160413 Entry No.: 01055 Analyzed: 160413 MANGANESE Result: 110 Units: UG/L TOTAL DISSOLVED SOLIDS Result: 710 Units: MG/L Entry No.: 70300 Analyzed: 160411 WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 160406 07:00 COLOR Result: ND Units: UNITS Entry No.: 00081 Analyzed: 160406 IRON Units: UG/L Entry No.: 01045 Analyzed: 160413 Result: ND MANGANESE Result: ND Units: UG/L Entry No.: 01055 Analyzed: 160413 Result: 780 Units: MG/L Entry No.: 70300 Analyzed: 160411 TOTAL DISSOLVED SOLIDS



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 04/18/16 16:31
Received Date: 04/08/16 09:42
Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 16D0508

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 4/8/2016 with the Chain of Custody document. The samples were received in good condition, at 1.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6D08013-01 Sampled by: Client	Sample I Sampled			Site #1/ 16I	D0508-0 1				Ма	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	7.7	0.024	0.20	mg/l	20	RSK-175	4/14/16	4/14/16 22:00	W6D0825	
Lab ID: 6D08013-02	Sample I	D: F	Reservoir E	Effluent Site	#5 / 16[00508-05			Ma	trix: Water
Lab ID: 6D08013-02 Sampled by: Client	Sample I	-		Effluent Site	#5 / 16[00508-05			Ма	trix: Water
	•	-		Effluent Site	#5 / 160 Dil	00508-05 Method	Prepared	Analyzed	Ma Batch	itrix: Water Qualifier





Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

			,						
atch W6D0825 - RSK-175									
Blank (W6D0825-BLK1)					Prepared: 04/	14/16 Ana	alyzed: 04/1	4/16 20:41	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPI Lim
Methane		ND		mg/l					
LCS (W6D0825-BS1)					Prepared: 04/	14/16 Ana	alyzed: 04/1	4/16 20:21	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RP Lim
Methane		0.225		mg/l	0.198	114	85-115		
Duplicate (W6D0825-DUP1)	Se	ource: 6D0801	3-02		Prepared: 04/	14/16 Ana	alyzed: 04/1	4/16 22:40	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RP Lim
Methane	0.828	0.829		mg/l				0.2	20

6D08013 Page 2 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

Authorized Signature

Contact: Brandon Gee (Project Manager)









ELAP # 1132 LACSD # 10143 **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

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).

Subcontracted analysis, original report enclosed. Sub

DL Method Detection Limit RL Method Reporting Limit MDA Minimum Detectable Activity

NR Not Reportable

6D08013 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

16D0508

(0d08013

SENDING LABORATORY:		RECEIVING LABO	JKATUKI:	
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles		•	2139	
Please email results to Project Manage [] glaubig@clinical-lab.com [] yb	r: Stu Styles arra@clinical-lab.c	com [] styles@clinical-lab	o.com [] nelson@clinical-lab.com	
California EDT transfer those s Transfer File requested; log in			No No	
	[\]\5 Days []	Other Days		
Subcontract Comments:				
Analysis			Comments	
)8-01	Sampled: 04/06/16 06:35 P Water		
Analysis Sample ID: Raw Water Site #1 / 16D050)8 - 01		S Code:	
Analysis Sample ID: Raw Water Site #1 / 16D056 Methane RSK175	08-01		'S Code: WTX ID:	
Analysis Sample ID: Raw Water Site #1 / 16D050			'S Code: WTX ID:	
Analysis Sample ID: Raw Water Site #1 / 16D050 Methane RSK175 Containers Supplied:	40mL Amber	Water	S Code: WTX ID: Report in mg/L	
Analysis Sample ID: Raw Water Site #1 / 16D056 Methane RSK175 Containers Supplied: OmL Amber Vial w/ Na2S2O3 (B)	40mL Amber	Water Vial w/ Na2S2O3 (C) Sampled: 04/06/16 06:30 P	S Code: WTX ID: Report in mg/L PS Code:	
Analysis Sample ID: Raw Water Site #1 / 16D056 Methane RSK175 Containers Supplied: OmL Amber Vial w/ Na2S2O3 (B) Sample ID: Reservoir Effluent Site #5 /	40mL Amber	Water Vial w/ Na2S2O3 (C) Sampled: 04/06/16 06:30 P	PS Code: Report in mg/L PS Code: WTX ID:	

Bosh	04/08/16 0	7:25	Des acres	1/8/1	16 845
Released By	Date / Time	R 942	eceived By	4 8/1 le 0942	1.88
Released By	Date / Time	R	eceived By	Date / Time	

16 Dosog

2/2/

Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client		City o	City of Lomita	Sy	System Number	umber		Ana	Analysis Requested	Requ	leste	P				
Address		24373 W.	24373 Walnut Avenue		101	1910073										
		Lomita	Lomita, CA 91717	÷	6	7 700								Me		
Phone #		(310)	(310) 325-9830	a	estinatic	Destination Laboratory	tory	T]		He			tha		
Fax #		(310)	(310) 325-3627		X] Clinic	[X] Clinical Laboratory	tory	otal	Iror					ne (
Project		Standa	Standard Analysis		RANGCB	RWQCB Compliance	9	Dis					(WA		
		Mandell				YES		sol		. C		Colo	Odo	TE		
Sub Project	5	AimimolM.	Montaiy Computance		Ш	ELAP#		ved			late lifo		r	CR)		
Comments	ø	WEEKLYSA	AS WELL		~	1088		Solid	nese		Cou			(RSK		
Sampled by	X C	7	DGM			3		8			nt ——			(175)		-
Date	Time	Sample I	Sample Idenitification	Matrix	Туре	Preserv	Total Chlorine					-)	Comments / P.S. Co	Codes
4/6/2016	2830	Raw W	Raw Water Site #1	GW	MΙ	N/A	101	X	×			X			FIELD PH 7.17	TEMP 19.8
4/6/2016	0635	Raw W	Raw Water Site #1	CW	3	2,7								×	11	
4/6/2016	Ø635	Raw W	Raw Water Site #1	GW	3	1,7				X	×	•				,
4/6/2016	D6.50	Filter Effluent (Filter Effluent (Free Chlorine) Site#2	MQ	MI	1,7	5,00			×	$\mathbf{x} \mid \mathbf{x}$				2912 HOOT 323	TEMP ZI.O
4/6/2016	BALA	Filter Effluent (1	Filter Effluent (Total Chlorine) Site#3	MQ	MI	N/A	D.A.4	×	X			X			E912 Hel 07313	20,3
4/6/2016	\$pod	Zone	Zone #2 Sitc #6	Ma	1.0	N/A	7.7	X							91'8 Het (1727)	TEMP 17.6
4/6/2016	DE 30		Reservoir Effluent Site #5	DW	1D	N/A	2,64	X					X		FLELD PH 7.13	18.9
4/6/2016	Ø63Ø		Reservoir Effluent Site #5	DW	9	2,7								×	11	
Preservative	35: (1) Na ₂ S ₂ O ₃	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI) NH4CI		Matrix	DW-Drini	V-Drinking Water,	WW-I	WW-Waste Water, SW-Storm Water, 2-Popost 3-Popost 4-Special	Wate	, SW-	Storm	Wate	1, GM	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Type, 1-Pouting 2-Bongst 3-Bondscoment 4-Special W.Well D. Diet	
(c)	COSTRAIN (0) 100	(1) cold (9) cities.				2016			2			, ,		1.77		
Keln	Kelinquished By (Sign)	(Sign)	Print Name / Company	2		Date/Iime	Ime		(Keenes		By (Sign)	gu)		Print Name / Company	any
Daniel Mateik	ik Dals	h	City of Lomita, CA		4/6/2016	91	13.00 J		5	13		1			5. Lucono/a	J.B
7	12 June	1) J	J. WORNS/CUB		91.9.6		6%		A	$1 \setminus$	K	7		7	Hun	
Comments						/	Samples received:	recei	ved:	A^{z}	On ice	7) a) Int) F	Intact) F (7	() Custody seals	
Shipped Via			[] Fed X [] Golden State	-	l UPS	Client	[] Other				<u> </u>				Page_1_ of_1_	

"Your Water and Wastewater Analysis Solution"

Client		City of Lomita	Sy	stem N	System Number		Analysis Requested	Sis F	edne	sted				
Address		24373 Walnut Avenue		Ç	10072				_			_		
		Lomita, CA 91717		20	2700181	_				M				
Phone #		(310) 325-9830	Q	estinati	Destination Laboratory	tory				eth		-		
Fax#		(310) 325-3627		X] Clinic	[X] Clinical Laboratory	tory		i ota		ane				
Project		Standard Analysis		RWQCB	RWQCB Compliance	e c				(W	Har			
Sub Project		CWPF Weekly Compliance Sampling		ш	No ELAP#		ron	ganese	olor	ater) (dness			
Comments	.	SEE MONTHLY		•	000			olids		RSK				
Sampled by	>	, WDO			1088					175				
Date	Time	Sample Idenitification	Matrix	Туре	Preserv	Total Chlorine)			Comments / P.S. Codes	Codes
710/3/7	101.01	(1) 70() Ellow Effluent City #3 /77 / (77) (74)	, and	Ì				\vdash	\vdash				1	
	4	ובסוגו עער	Š	<u>*</u>	IN/A			× ×	<u>*</u>			+	TH = IEIMT =	
4/6/2016		Reservoir Effluent Site #5	DW	≥	N/A			-	-			+		
4/6/2016		Reservoir Effluent Site #5 SEE MONT はしく	DW	NI NI	нсг	2.64				×	X	/		
4/6/2016	0630	8630 Reservoir Effluent Site #5	DW	31	N/A	76.4			_			-	PH =72STEMP =	0.8
	,							H				H		-
								\dashv				\vdash	·	
								\dashv	_					
								+	\perp		$\frac{1}{2}$	+		
Occi-toracoca O	;	COLLEGE COLLEG		Matrix	Adir O'Alo	14/0402	- 1							
(5) H2SC	04 (6) N	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:		mau ix.	Type- 1	IIIIg Water, '-Routine, 2	Prepes	nt, 3-R	ater, . splace	ment,	4-Spe	ater, G cial W.	maurx. DVP-Drinking Water, VVV-Waste Water, SW-Stofff Water, GW- Ground Water, A-Alr Type- 1-Routine, 2-Repeat, 3-Repla <u>ce</u> ment, 4-Special W-Well D- Dist.	
Reting	paished	Relinquished By (SigN Print Name / Company			Date / Time	Time		(efeived	ed B	(Sign)		Print Name / Co.	yapany
Daniel Mateik	N.	City of Lomita		4/6/2016	16 //	3:8			_))				3-LUROLL	708
9	¥	2 May 2 Mcano) C	らる	1.9-6	3.16	8.5	\dashv	1	Y	H	4	N	RUMAJCO 7	
Comments). 				<u>`</u>	Samples received: Te	eceive		(2)	<u>\$</u>		intact F	() Custody seals	S
Shipped Via		Fed X Golden State	I UPS	Client] Other						•	Page_1_ of_1_	

"Your Water and Wastewater Analysis Solution"

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

			APRIL 2016	
DATE	DAY	METHA	NE HANDHELD	COMMENTS
4/1/2016	F	CH4- 0%	Oxy- 20.8%	
4/2/2016	SA	CH4- 0%	Oxy- 20.8%	
4/3/2016	SU			
4/4/2016	М	CH4- 0%	Oxy- 20.9%	
4/5/2016	T	CH4- 1%	Oxy- 20.9%	
4/6/2016	W	CH4- 0%	Oxy- 20.9%	
4/7/2016	TH	CH4- 0%	Oxy- 20.9%	
4/8/2016	F	CH4- 0%	Oxy- 20.9%	
4/9/2016	SA	CH4- 1%	Oxy- 20.1%	
4/10/2016	SU			
4/11/2016	М	CH4- 0%	Oxy- 20.8%	
4/12/2016	Т	CH4- 1%	Oxy- 20.9%	
4/13/2016	W	CH4- 1%	Oxy- 20.9%	
4/14/2016	TH	CH4- 0%	Oxy- 20.9%	
4/15/2016	F	CH4- 0%	Oxy- 20.8%	
4/16/2016	SA	CH4- 0%	Oxy- 20.9%	
4/17/2016	SU			
4/18/2016	М	CH4- 0%	Oxy- 20.8%	
4/19/2016	Т	CH4- 0%	Oxy- 20.9%	
4/20/2016	W	CH4- 1%	Oxy- 20.9%	
4/21/2016	TH	CH4- 0%	Oxy- 20.9%	
4/22/2016	F	CH4- 0%	Oxy- 20.9%	
4/23/2016	SA	CH4- 0%	Oxy- 20.8%	
4/24/2016	SU			
4/25/2016	М	CH4- 0%	Oxy- 20.9%	
4/26/2016	Т	CH4- 1%	Oxy- 20.9%	
4/27/2016	W	CH4- 0%	Oxy- 20.9%	
4/28/2016	TH	CH4- 0%	Oxy- 20.9%	
4/29/2016	F	CH4- 0%	Oxy- 20.4%	
4/30/2016	SA	CH4- 0%	Oxy- 20.8%	

ND- Non Detect CH4- Methane

Oxy- Oxygen

Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

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

Comments		We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD Blend	We///MWD Blend	MWD Only	MWD Only	MWD Only	Mel/MMM Right	We///MWD Blend	We///WWD Blend	We///MWD Blend	We///MWD Blend	MWD Only	MWD Only	MWD Only		We///MWD Blend	We///MW/D Blend	We///MWD Blend	We///MWD Blend	MWD Only	MWD Only	MWD Only	We///MW/ Blend	We///WWD Blend	We///MWD Blend	We///MWD Blend	We///MWD Blend	MWD Only	MWD Only	MWD Only	We///WWD Blend	We///WWD Blend	We///MWD Blend	We///MWD Blend	We///MWD Blend	MWD Only	MWD Only	MIM/O Ophy
Nord		1	1	1	1	1	2	n	2	7	- 1	1	1	1	2	8	2		- 1	- 1	1	1	2	n	2	1	1	.	1	1	2	ო	2	1	7		1	1	2	က	
НРС	CFU/ml	5	30	98	230	ND	ND	ND	ND	SN	150	220	380	N	ND	QN	QN	9	190	880	860	1	QV	QV	ND	S	64	130	230	ND	ND	ND	QN								
Coliform [*]	P/A	A	A	A	A	A	A	A	A	Δ	. A	A	A	A	A	Ą	А		τ 4	ζ 4	. A	A	Ą	A	A	A	A	V	A	Ą	A	A	A								
Nitrate	mg/L	QN	ND	ND	ND	QN	ND	QN	QN	CN	QV	ND	QN	ND	QN	ND	ND	Ci.	5 8	2 8	QV.	QN	QN	QN	QN	CN	QN	ND	QN	QN	DN	ND	ON								
Nitrite	mg/L	QN	QN	QV	QV	QN	QV	QN	ND	CN	ND	QV	QN	QV	QV	QV	ΟN	Ç.	5 8	2 8	N S	ND	QV	DN	QN	QN	QV	QN	QV	ND	QN	ND	ND								
Free Ammonia	mg/L	QN	ON	QN	ND	QN	QN	ND	QN	QN	QN	QN	QN	QN	QN	ND	QN	Ç	2 8	Q. Q.	QN	QN	QN	QN	QN	QN	QN	ND	ND	QN	ND	QN	ND								
Total Ammonia	mg/L	ND	ON	DN	QN	ND	QN	ND	QN	QN	QN	QN	QN	QN	QN	QN	QN	2	2 8	QN ON	QN	ND	QN	ON	QN	QN	QN	QN	QN	QN	ON	QN	ND								
Free	mg/L	-				-										ı	1				1		1	•					ı		-										
Total Chlorine	mg/L	2.50	1.17	1.90	0.50	2.64	2.40	2.50	2.30	1.96	0.65	0.84	0.21	2.90	2.40	2.70	2.20	170	0.61	1.42	0.22	2.62	2.80	2.60	2.80	1.57	0.50	1.45	0.20	3.19	2.20	2.20	2.10								
Hd		79.7	7.21	7.86	7.47	7.18	92.7	7.78	8.20	7.99	8.00	8.05	7.40	7.75	8.38	8.34	8.57	2.00	7.88	2.90	7.40	8.00	8.25	90'.	8.31	7.72	7.72	7.81	79.7	7.68	7.41	7.26	8.04								
Гетр	၁့	23.2	21.3	21.4	20.1	18.9	24.2	20.8	20.1	21.0	20.3	19.7	21.0	19.4	21.0	18.2	18.3	40 E	19.5	20.2	20.0	19.0	22.4	18.9	19.0	24.6	22.2	22.3	21.8	20.1	21.1	19.5	22.7								_
Sample Date (and Time)	MM/DD/YYYY XX:XX am/pm	4/6/2016	4/6/2016	4/6/2016	4/6/2016	4/6/2016	4/6/2016	4/6/2016	4/6/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/13/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/20/2016	4/27/2016	4/27/2016	4/27/2016	4/27/2016	4/27/2016	4/27/2016	4/27/2016	4/27/2016								
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	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	1018 IN 252nd C+	24632 S Moon Av	25417 Pennsylvania Av	2052 Dawn St	Reservoir	1912 W. 259th PI	26314 S Monte Vta.	2500 PCH	1948 W. 252 nd St	24632 S Moon Av	25417 Pennsylvania Av	2052 Dawn St	Reservoir	1912 W. 259th PI	26314 S Monte Vta.	2500 PCH	1948 W. 252 nd St	24632 S Moon Av	25417 Pennsylvania Av	2052 Dawn St	Reservoir	1912 W. 259th PI	26314 S Monte Vta.	1000000
Sample I.D	Units/Others →	S13-003	S13-004	S13-008	А		13-1	13-2	13-5	\$13-003	\$13-004	S13-008	A		13-1	13-2	13-5	242 002	\$13-004	\$13-008	A		13-1	13-2	13-5	\$13-003	\$13-004	\$13-008	А		13-1	13-2	13-5	\$13-003	S13-004	S13-008	A		13-1	13-2	
@ Ø O C	Units/C	1 D	2 D	3 D	4 D	5 D	Q 9	2 D	8 D	1 D	2 D	3 D	4 D	5 D	Q 9		8 D	-	20	3 D	-	5 D	Q 9	2 D	8 D	1 D	2	3 D	4 D	-	Q 9	_	8 D	1 D	2 D	3 D	4 D	5 D	Q 9	2 D	

'Notes: Report Due to DDW by the 10th of the following month. This Report can be used for the routine weekly monitoring (one Report per month) as well as for daily monitoring when there is actual and potential for nitrification (about four or five Reports per month, in this case).

**Coliform results are part of weekly Bacti sampling results.