

CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

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**DECEMBER 2015**

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**CITY COUNCIL**

JIM GAZELEY  
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**CITY OF LOMITA**

**ADMINISTRATION**

STEPHEN BURRELL  
INTERIM CITY MANAGER

January 8, 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

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

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 December 2015, 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 for 17 days.

The total production from Well No. 5 for the month was approximately 61.50 ac-ft (20,038,740 gallons) with a daily production of approximately 4.39 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 105.94 ac-ft (34,518,732 gallons) for the month with a combined daily production of approximately 7.57 ac-ft.

The daily average flow from Well No. 5 was 977 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 58% Well water and 42% MWD water.

## **C. OPERATIONAL INTERRUPTIONS**

There were no operational interruptions during the month of December 2015. 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) 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, 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 696 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 740 mg/L and 680 mg/L, respectively.

#### **E3-2 HARDNESS**

The sampling results for the month of November 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 0.87 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 December 2015 in Appendix B.

## **E4. NITRIFICATION MONITORING**

Weekly Nitrification sampling was performed during the month of December 2015, see Appendix C.



## F. TABLES

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

Date, week of	SP1, Well Raw Water Discharge							SP2, Combined Pressure Filter Effluent			SP3, After chloramination static mixer; reservoir entry					
	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
12/2/2015											ND	300	ND	50	ND	15
12/9/2015	230	300	130	50	10	15	A	A	A	500	ND	300	ND	50	ND	15
12/16/2015											ND	300	ND	50	ND	15
12/23/2015											ND	300	ND	50	ND	15
12/30/2015											ND	300	ND	50	5	15

Notes: Monthly- Orange

Weekly- Yellow

A – Absent

ND – Non Detect

\*Per the SWRCB Drinking Water “Chemicals and Contaminants in Drinking Water” Regulations

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

Date, week of	SP2	SP3			SP4			SP5		
	Free Cl	Free Cl	Total Cl	Total NH <sub>3</sub>	Free Cl	Total Cl	Total NH <sub>3</sub>	Free Cl	Total Cl	Total NH <sub>3</sub>
12/2/2015	11.96	1.47	7.04	-	0.54	3.58	0.56	0.32	2.84	0.57
12/9/2015	6.50	1.62	7.24	1.84	1.10	5.11	0.95	0.67	2.88	0.70
12/16/2015	8.82	1.65	7.03	0.88	0.62	4.90	0.80	0.47	2.53	0.60
12/23/2015	7.10	1.99	7.68	0.86	0.42	9.12	1.58	0.61	2.84	0.68
12/30/2015	7.27	1.81	6.92	1.19	0.96	5.09	0.74	0.66	3.31	0.68

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

Date, week of	TDS, mg/L				T.O.N.		Hardness, mg/L		Methane (Water), mg/L	
	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
12/2/2015			660	500-750						0.67
12/9/2015	740	680	740	500-750	1	3			6.2	0.98
12/16/2015			700	500-750			310	180-250		0.84
12/23/2015			700	500-750						0.97
12/30/2015			680	500-750						-
<b>Average</b>			<b>696</b>	500-750						<b>0.87</b>

**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 CaCO<sub>3</sub>  
 Methane (Water) - Methane dissolved in water



**Monthly CWPf Monitoring Report – November 2015**  
**Cypress Water Production Facility**  
**City of Lomita; System No. 1910073**

Sample Locations and Parameters	Frequency	MCL/ Goal	Date 1stWk/ or Mo. Result	Date 2 <sup>nd</sup> Wk	Date 3rdWk	Date 4 <sup>th</sup> Wk	Date 5 <sup>th</sup> Wk	Met Freq.? Y/N	Met Std./ SI Goal? Y/N	Comments	
<b>SP1 --- Also called Well 5 Raw Water or Site#1.</b>											
TDS, ppm	Monthly	See SP5	740	<b>Operations Data/Information:</b> <b>CWPf operation days: 31 days (14 fill days; 17 draw days).</b> <b>Well 5 Only:</b> Daily avg. flow- 977 gpm; <b>December</b> total prod.- <b>61.50</b> AF; Daily prod.- <b>4.39</b> AF <b>Combined Well 5/MWD Data:</b> Average Well5:MWD Blend Ratio – <b>58%;42%;</b> <b>December</b> total prod.- <b>105.94</b> AF; Combined Daily prod.- <b>7.57</b> AF Chlorine Dosage: <b>3.88 mg/L (avg)</b>				Y			
Hardness	Monthly	See SP5	-					Y			
CH4, ppm	Monthly	See SP5	6.2					Y			
Iron, ppb	Monthly	See SP3	230					Y			
Manganese, ppb	Monthly	See SP3	130					Y			
Color, units	Monthly	See SP3	10					Y			
Total Coliform, P or A	Monthly	-	A					Y	Y		
<b>SP2 --- Also called Filter Effluent or Site#3.</b>											
Total Coliform, P or A	Monthly	A	A	<b>Operations Data/Information:</b> <b>Ammonia Dosage:</b>				Y	Y		
HPC,MPN/100 ml	Monthly	500	A					Y	Y		
Free Cl Res, ppm	Continuous	Average: <b>8.33</b> ; Range: <b>6.50 – 11.96</b>						Y			
<b>SP3 --- Also called the Site After Chloramination &amp; Before MWD Blending or Site #4.</b>											
Iron, ppb	Weekly	300	ND	ND	ND	ND	ND	Y	Y		
Manganese, ppb	Weekly	50	ND	ND	ND	ND	ND	Y	Y		
Color	Weekly	15	ND	ND	ND	ND	5	Y	Y		
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: <b>1.71</b> ; Range: <b>1.47 – 1.99</b> Total Cl: Average: <b>7.18</b> ; Range: <b>6.92 – 7.68</b> Ammonia: Average: <b>1.19</b> ; Range: <b>0.86 – 1.84</b>						Y		Met Cl/NH3 Ratio? – Y/N	
<b>SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection.</b>											
Phosphate Injection		<b>Operations Data/Information:</b> <b>Phosphate Dosage:</b>									
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: <b>0.73</b> ; Range: <b>0.42 – 1.10</b> Total Cl: Average: <b>5.56</b> ; Range: <b>3.58 – 9.12</b> Ammonia: Average: <b>1.02</b> ; Range: <b>0.56 - 1.58</b>						Y		Met Cl/NH3 Ratio? – Y/N	
<b>SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system.</b>											
<sup>1</sup> TDS, ppm	Weekly	SI Goal: 500-750ppm	660	740	700	700	680	Y	SI Goal-Y		
<sup>1</sup> Hardness	Monthly	SI Goal: 180-250ppm			310			Y	SI Goal-Y		
CH4, ppm	Weekly	SI Goal: 1	0.67	0.98	0.84	0.97	-	Y	SI Goal-Y	%Removal -	
Odor, units	Monthly	3		1				Y	Y		
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: <b>0.55</b> ; Range: <b>0.32 – 0.67</b> Total Cl: Average: <b>2.88</b> ; Range: <b>2.53 – 3.31</b> Ammonia: Average: <b>0.67</b> ; Range: <b>0.57 – 0.70</b>						Y	Y	Met Cl/NH3 Ratio? – Y/N	
<b>Headspace of the Cypress Reservoir.</b>											
<sup>1</sup> CH4 ppmv; using Portable Device	Daily (from log)	Goal - LEL	CH4 Average: <b>0.55%</b> ; CH4 Range: <b>0% - 3%</b>					Y	SI Goal-Y		
<b>SP 6 --- MWD Source Feeding CWPf. Also called Zone 2 of the distribution system or Site #6.</b>											
TDS, ppm	Monthly	-----		680				Y		Above or below goal	
Hardness	Monthly	-----		-				Y		Above or below goal	
Notes: <sup>1</sup> Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO3 Goal-180-250 ppm.											

**Note: This Report is due to DDW by the 10<sup>th</sup> of the following month.**

## **APPENDIX A**

### **LABORATORY RESULTS**

# *Clinical Laboratory of San Bernardino, Inc.*



22 December 2015

Clinical Lab No.: 15L0429

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

Project Name: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 12/02/15 . 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,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis  
Project Manager: Mark Andersen

Work Order: 15L0429  
Received: 12/02/15 15:40  
Reported: 12/22/15

**Filter Effluent Site (Chloramine) #3**      **15L0429-01 (Water)**      **Sample Date:** 12/02/15 12:38      **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	12/03/15	12/03/15	1549758	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	12/10/15	12/10/15	1550084	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	12/10/15	12/10/15	1550084	
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**Reservoir Effluent Site #5**      **15L0429-02 (Water)**      **Sample Date:** 12/02/15 12:36      **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>660</b>	5.0	1000	mg/L	12/04/15	12/07/15	1549693	
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ND      Analyte NOT DETECTED at or above the reporting limit



## Certificate of Analysis

Project: 15L0429

Report Date: 12/10/15 15:57

Received Date: 12/04/15 09:25

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

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 12/4/2015 with the Chain of Custody document. The samples were received in good condition, at 2.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5L04013-01

Sample ID: Reservoir Effluent Site #5 / 15L0429-02

Matrix: Water

Sampled by: Client

Sampled: 12/02/15 12:36

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.67		0.010	mg/l	1	RSK-175	12/8/15	12/8/15 14:20	W5L0549	



## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W5L0549 - RSK-175

## Blank (W5L0549-BLK1)

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		ND		mg/l					
Ethane .....		ND		mg/l					
Ethene .....		ND		mg/l					

## LCS (W5L0549-BS1)

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.204		mg/l	0.198	103	85-115		

## Calibration Check (W5L0549-CCV1)

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.00775		mg/l	0.00792	98	50-150		

## Duplicate (W5L0549-DUP1)

Source: 5L04013-01

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....	0.674 .....	0.681		mg/l				1	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**

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 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**  
**15L0429**

5L04013

**SENDING 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

**RECEIVING LABORATORY:**

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 [x] styles@clinical-lab.com [ ] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [x] No

Transfer File requested; log in with Element ID only [ ] Yes [x] No

Turn Around Time [ ] 10 Days [x] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

**Analysis**

**Comments**

Sample ID: Reservoir Effluent Site #5 / 15L0429-02

Sampled: 12/02/15 12:36 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

12/4/15 08:00

12-4-15 / 9:25

12-4-15 / 8:30

12/4/15 09:25 2.1 °C

# Clinical Laboratory of San Bernardino, Inc.

15C0429

01014

Chain of Custody

Client		City of Lomita		System Number		Analysis Requested																	
Address		24373 Walnut Avenue		1910073		Methane (AIR) (ASTM D1946)		Methane (WATER) (RSK175)		Color		Phosphorus- Total as P		Phosphate- Ortho as P		Total Dissolved Solids		Manganese		Iron		Comments / P.S. Codes	
Phone #		Lomita, CA 91717		Destination Laboratory																			
Fax #		(310) 325-9830		[X] Clinical Laboratory																			
Project		(310) 325-3627		CDWR Compliance																			
Sub Project		CWPF Weekly Compliance Analysis		YES																			
Comments		ELAP #		1088																			
Sampled by		Elwood J. Davis																					
Date		Time		Sample Identification		Matrix		Type		Preserv		Total Chlorine											
				Raw Water Site #1		DW		1W		HCL													
				Raw Water Site #1		DW		1W		N/A													
12-2-16		1238		Filter Effluent Site (Chloramine) #3		DW		1W		N/A		-		X		X						E13-005A	
12-2-16		1235		Reservoir Effluent Site #5		DW		1W		N/A		-											
12-2-16		1236		Reservoir Effluent Site #5		DW		1W		HCL		-											
				Zone #2 Site #6		DW		1W		N/A													
Preservatives:		(1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl		Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air																			
		(5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Gold (8) Other:		Type: 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist.																			
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company															
Elwood J. Davis		Elwood J. Davis		12-2-2015 1240		Elwood J. Davis		Elwood J. Davis															
Comments:		City of Lomita		12-2-15/1240		Samples received		On ice ( ) Intact ( ) Custody seals															
		5.0000000000000000				Temp		5.8															
Shipped Via		Fed X		Golden State		UPS		Client		Other													

"Your Water and Wastewater Analysis Solution"

# *Clinical Laboratory of San Bernardino, Inc.*



23 December 2015

Clinical Lab No.: 15L0937

Mark Andersen  
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 12/09/15 . 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,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: Monthly Compliance  
Project Manager: Mark Andersen

Work Order: 15L0937  
Received: 12/09/15 16:00  
Reported: 12/23/15

**Raw Water Site #1** **15L0937-01 (Water)** **Sample Date:** 12/09/15 11:49 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## Field Analyses

Cl Res Free (Field)	Field	0		N/A	mg/L	12/09/15	12/09/15	1550527	
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## Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	12/09/15	12/10/15	1550435	
E. Coli	SM 9223	A		N/A	P/A	12/09/15	12/10/15	1550435	

## General Physical Analyses

Apparent Color	SM 2120B	10.0	3.0	15	Color Units	12/10/15	12/10/15	1550537	
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## General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	740	5.0	1000	mg/L	12/11/15	12/14/15	1550544	
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## Metals

Iron (Fe)	EPA 200.7	230	100	300	ug/L	12/16/15	12/16/15	1551183	
Manganese (Mn)	EPA 200.7	130	20	50	ug/L	12/16/15	12/16/15	1551183	

**Filter Effluent (Free Chlorine) Site #2** **15L0937-02 (Water)** **Sample Date:** 12/09/15 11:47 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## Field Analyses

Cl Res Free (Field)	Field	0		N/A	mg/L	12/09/15	12/09/15	1550527	
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## Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	12/09/15	12/10/15	1550435	
E. Coli	SM 9223	A		N/A	P/A	12/09/15	12/10/15	1550435	
Plate Count	SM9215B	ND	1	500	CFU/ml	12/09/15	12/11/15	1550585	

**Filter Effluent (Total Chlorine) Site #3** **15L0937-03 (Water)** **Sample Date:** 12/09/15 11:46 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	12/10/15	12/10/15	1550537	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	12/16/15	12/16/15	1551183	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	12/16/15	12/16/15	1551183	

# Clinical Laboratory of San Bernardino, Inc.



Lomita, City of  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: Monthly Compliance  
Project Manager: Mark Andersen

Work Order: 15L0937  
Received: 12/09/15 16:00  
Reported: 12/23/15

**Zone #2 Site #6** **15L0937-04 (Water)** **Sample Date:** 12/09/15 11:45 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>680</b>	5.0	1000	mg/L	12/11/15	12/14/15	1550544	
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**Reservoir Effluent Site #5** **15L0937-05 (Water)** **Sample Date:** 12/09/15 11:51 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## Field Analyses

<b>Cl Res Total (Field)</b>	Field	<b>2.68</b>		N/A	mg/L	12/09/15	12/09/15	1550528	
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## General Physical Analyses

<b>Odor Threshold</b>	EPA 140.1M	<b>1</b>	1	3	TON	12/09/15	12/09/15	1550457	
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## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>740</b>	5.0	1000	mg/L	12/11/15	12/14/15	1550544	
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ND Analyte NOT DETECTED at or above the reporting limit





## Certificate of Analysis

Project: 15L0937

Report Date: 12/28/15 10:39

Received Date: 12/10/15 12:15

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

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 12/10/2015 with the Chain of Custody document. The samples were received in good condition, at 3.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5L10047-01      Sample ID: Raw Water Site #1 / 15L0937-01      Matrix: Water  
Sampled by: Client      Sampled: 12/09/15 11:49

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	6.2		0.20	mg/l	20	RSK-175	12/23/15	12/23/15 10:40	W5L1350	

Lab ID: 5L10047-02      Sample ID: Reservoir Effluent Site #5 / 15L0937-05      Matrix: Water  
Sampled by: Client      Sampled: 12/09/15 11:51

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.98		0.010	mg/l	1	RSK-175	12/23/15	12/23/15 10:40	W5L1350	



## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W5L1350 - RSK-175

## Blank (W5L1350-BLK1)

Prepared: 12/23/15 Analyzed: 12/23/15 13:05

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		ND		mg/l					

## LCS (W5L1350-BS1)

Prepared: 12/23/15 Analyzed: 12/23/15 14:10

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.228		mg/l	0.198	115	85-115		

## Calibration Check (W5L1350-CCV1)

Prepared: 12/23/15 Analyzed: 12/23/15 13:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.00842		mg/l	0.00792	106	50-150		

## Calibration Check (W5L1350-CCV2)

Prepared: 12/23/15 Analyzed: 12/23/15 17:28

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.210		mg/l	0.198	106	0-200		

## Duplicate (W5L1350-DUP1)

Source: 5L18019-01

Prepared: 12/23/15 Analyzed: 12/23/15 17:48

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....	0.287 .....	0.291		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**

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 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

15L0937

5400  
3612hols**SENDING 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

**RECEIVING LABORATORY:**

Weck Lab, Analytical & Environmental  
Analytical & Environmental Svc 14859 E Clark Ave  
Industry, CA 91745  
Phone : (626) 336-2139  
Fax: (626) 336-2634

5L10047

Please email results to Project Manager: Stu Styles

[ ] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [X] styles@clinical-lab.com [ ] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [X] No

Transfer File requested; log in with Element ID only [ ] Yes [X] No

Turn Around Time [ ] 10 Days [X] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

**Analysis****Comments**

Sample ID: Raw Water Site #1 / 15L0937-01

Sampled: 12/09/15 11:49 PS Code:

Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial w/ Na2S2O3 (B)

40mL Amber Vial w/ Na2S2O3 (C)

Sample ID: Reservoir Effluent Site #5 / 15L0937-05

Sampled: 12/09/15 11:51 PS Code:

Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

12/10/15

Chris Maloney  
Janelle

12-10-15 / 10:45

12-10-15 / 12:15

12/10/15 1215 3.7°

Client		City of Lomita		System Number		Analysis Requested											
Address		24373 Walnut Avenue		1910073													
Phone #		(310) 325-9830		Destination Laboratory													
Fax #		(310) 325-3627		[X] Clinical Laboratory													
Project		Standard Analysis		RWQCB Compliance													
Sub Project		Monthly Compliance		YES													
Comments				ELAP #													
Sampled by		Edward D. Vivier		1088													
Date	Time	Sample Identification		Matrix	Type	Preserv	Free Chlorine	Total Dissolved Solids	Iron & Manganese	E. Coli	Total Coliform	Heterotrophic Plate Count	Color	Odor	Methane (WATER) (RSK175)	Comments / P.S. Codes	
12-9-15	1149	Raw Water Site #1		GW	1W	N/A	0.00	X	X				X				
12-9-15	1149	Raw Water Site #1		GW	1W	2.7	0.00								X		
12-9-15	1148	Raw Water Site #1		GW	1W	1.7	0.00			X	X						Free chlorine residual (see 1000)
12-9-15	1147	Filter Effluent (Free Chlorine) Site#2		DW	1W	1.7			X				X				
12-9-15	1146	Filter Effluent (Total Chlorine) Site#3		DW	1W	N/A	—										
12-9-15	1145	Zone #2 Site #6		DW	ID	N/A	—	X									Total chlorine @ 1000
12-9-15	1150	Reservoir Effluent Site #5		DW	ID	N/A	2.68	X						X			1 glass bottle / 1 Plastic Bottle
12-9-15	1151	Reservoir Effluent Site #5		DW	ID	2.7	2.68								X		
Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl (5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Cold (8) Other:																	
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company									
		Edward D. Vivier		12/9/15 12:30/1:10				J. Lucero/CUSA									
		City of Lomita, CA		12-9-15 / 4:00				J. Lucero/CUSA									
Comments: See email for more chlorine formation										Samples received: <input checked="" type="checkbox"/> On ice <input checked="" type="checkbox"/> Intact <input type="checkbox"/> ( ) Custody seals Temp 11.9 ( ) F <input checked="" type="checkbox"/> C							
Shipped Via		Fed X		Golden State		UPS		Client		Other		Page 1 of 1					

# *Clinical Laboratory of San Bernardino, Inc.*



04 January 2016

Clinical Lab No.: 15L1430

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

Project Name: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 12/16/15 . 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,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles  
Client Services Manager



# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis  
Project Manager: Mark Andersen

Work Order: 15L1430  
Received: 12/16/15 14:45  
Reported: 01/04/16

## Filter Effluent Site (Chloramine) #3

**15L1430-01 (Water)**

**Sample Date:** 12/16/15 11:32

**Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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### General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	12/16/15	12/16/15	1551478	
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### Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	12/24/15	12/24/15	1552176	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	12/24/15	12/24/15	1552176	
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## Reservoir Effluent Site #5

**15L1430-02 (Water)**

**Sample Date:** 12/16/15 11:35

**Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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### General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>700</b>	5.0	1000	mg/L	12/18/15	12/22/15	1551531	
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ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 15L1430

Report Date: 01/04/2016

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

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 151216 11:32

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 151216

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 151224

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 151224



## Certificate of Analysis

Project: 15L1430

Report Date: 12/24/15 15:47

Received Date: 12/17/15 11:35

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

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 12/17/2015 with the Chain of Custody document. The samples were received in good condition, at 2.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5L17027-01

Sample ID: Reservoir Effluent Site #5/ 15L1430-02

Matrix: Water

Sampled by: Client

Sampled: 12/16/15 11:35

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.84		0.010	mg/l	1	RSK-175	12/23/15	12/23/15 15:10	W5L1350	



## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W5L1350 - RSK-175

## Blank (W5L1350-BLK1)

Prepared: 12/23/15 Analyzed: 12/23/15 13:05

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		ND		mg/l					

## LCS (W5L1350-BS1)

Prepared: 12/23/15 Analyzed: 12/23/15 14:10

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.228		mg/l	0.198	115	85-115		

## Calibration Check (W5L1350-CCV1)

Prepared: 12/23/15 Analyzed: 12/23/15 13:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.00842		mg/l	0.00792	106	50-150		

## Calibration Check (W5L1350-CCV2)

Prepared: 12/23/15 Analyzed: 12/23/15 17:28

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.210		mg/l	0.198	106	0-200		

## Duplicate (W5L1350-DUP1)

Source: 5L18019-01

Prepared: 12/23/15 Analyzed: 12/23/15 17:48

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....	0.287 .....	0.291		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**

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 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  
15L1430

5L17027

**SENDING 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

**RECEIVING LABORATORY:**

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 [x] styles@clinical-lab.com [ ] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [x] No

Transfer File requested; log in with Element ID only [ ] Yes [x] No

Turn Around Time [ ] 10 Days [x] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

**Analysis**

**Comments**

Sample ID: Reservoir Effluent Site #5 / 15L1430-02

Sampled: 12/16/15 11:35 PS Code:

Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time



15L1430  
Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

<b>Client</b>		<b>City of Lomita</b>		<b>System Number</b>		<b>Analysis Requested</b>													
<b>Address</b>		24373 Walnut Avenue		<b>1910073</b>															
<b>Phone #</b>		Lomita, CA 91717		<b>Destination Laboratory</b>															
<b>Fax #</b>		(310) 325-9830		<b>[X] Clinical Laboratory</b>															
<b>Project</b>		(310) 325-3627		<b>CDWR Compliance</b>															
<b>Sub Project</b>		Standard Analysis		<b>YES</b>															
<b>Comments</b>		CWPF Weekly Compliance Analysis		<b>ELAP #</b>															
<b>Sampled by</b>				<b>1088</b>															
<b>Date</b>	<b>Time</b>	<b>Sample Identification</b>		<b>Matrix</b>	<b>Type</b>	<b>Preserv</b>	<b>Total Chlorine</b>	<b>Iron</b>			<b>Manganese</b>	<b>Total Dissolved Solids</b>	<b>Phosphate- Ortho as P</b>	<b>Phosphorus- Total as P</b>	<b>Color</b>	<b>Methane (WATER) (RSK175)</b>	<b>Methane (AIR) (ASTM D1946)</b>	<b>Comments / P.S. Codes</b>	
		Raw Water Site #1		DW	IW	HCL												W13-005	
		Raw Water Site #1		DW	IW	N/A												W13-005	
12/16/15	1332	Filter Effluent Site (Chloramine) #3		DW	IW	N/A			X	X					X			E13-005A	
12/16/15	1333	Reservoir Effluent Site #5		DW	IW	N/A													
12/16/15	1335	Reservoir Effluent Site #5		DW	IW	HCL									X				
		Zone #2 Site #6		DW	IW	N/A													
<b>Preservatives: (1) Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (2) HCl (3) HNO<sub>3</sub> (4) NH<sub>4</sub>Cl (5) H<sub>2</sub>SO<sub>4</sub> (6) Na<sub>2</sub>SO<sub>3</sub> (7) Cold (8) Other:</b>				<b>Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist.</b>															
<b>Relinquished By (Sign)</b>		<b>Print Name / Company</b>		<b>Date / Time</b>		<b>Received By (Sign)</b>		<b>Print Name / Company</b>											
		Edward L. Viera		12/16/15 12:30				J. Viera											
		City of Lomita		12-16-15 12:45				J. Viera											
<b>Comments:</b>						<b>Samples received:</b>		<b>Intact ( ) Custody seals</b>											
						Temp 16.5 ( ) F (X)													
<b>Shipped Via</b>		<b>Golden State</b>		<b>UPS</b>		<b>Client</b>		<b>Other</b>											

# *Clinical Laboratory of San Bernardino, Inc.*



29 December 2015

Clinical Lab No.: 15L1433

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

Project Name: Standard Analysis  
Sub Project: CWPF Weekly Non-Comp. Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 12/16/15 . 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,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWP Weekly Non-Comp. Analysis  
Project Manager: Mark Andersen

Work Order: 15L1433  
Received: 12/16/15 14:45  
Reported: 12/29/15

**Raw Water Site #1** **15L1433-01 (Water)** **Sample Date:** 12/16/15 11:30 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## Metals

Lead (Pb)	SM3113-B	ND	5.0	N/A	ug/L	12/28/15	12/28/15	1553013	
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**Reservoir Effluent Site #5** **15L1433-02 (Water)** **Sample Date:** 12/16/15 11:33 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Chemical Analyses

Hardness, Total (as CaCO <sub>3</sub> )	Calculated	310	6.6	N/A	mg/L	12/23/15	12/24/15	[CALC]	
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## Metals

Calcium (Ca)	EPA 200.7	80	1.0	N/A	mg/L	12/23/15	12/24/15	1552307	
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Magnesium (Mg)	EPA 200.7	26	1.0	N/A	mg/L	12/23/15	12/24/15	1552307	
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ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 15L1433

Report Date: 12/29/2015

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

Page 1 of 1

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LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

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WELL 05

Station No.: 1910073-003

Sampled: 151216 11:30

LEAD

Result: ND

Units: UG/L

Entry No.: 01051

Analyzed: 151228

15L1433

*Clinical Laboratory of San Bernardino, Inc.*

[illegible]

*"Your Water and Wastewater Analysis Solution"*

# *Clinical Laboratory of San Bernardino, Inc.*



06 January 2016

Clinical Lab No.: 15L1988

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

Project Name: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 12/23/15 . 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,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis  
Project Manager: Mark Andersen

Work Order: 15L1988  
Received: 12/23/15 15:30  
Reported: 01/06/16

**Filter Effluent Site (Chloramine) #3** **15L1988-01 (Water)** **Sample Date:** 12/23/15 10:52 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	12/23/15	12/23/15	1552397	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	12/30/15	12/30/15	1553334	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	12/30/15	12/30/15	1553334	
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**Reservoir Effluent Site #5** **15L1988-02 (Water)** **Sample Date:** 12/23/15 10:51 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>700</b>	5.0	1000	mg/L	12/29/15	12/31/15	1553081	
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ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 15L1988

Report Date: 01/06/2016

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

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 151223 10:52

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 151223

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 151230

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 151230





## Certificate of Analysis

Project: 15L1988

Report Date: 12/31/15 12:14

Received Date: 12/24/15 09:38

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

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 12/24/2015 with the Chain of Custody document. The samples were received in good condition, at 3.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5L24011-01

Sample ID: Reservoir effluent Site #5/ 15L1988-02

Matrix: Water

Sampled by: Client

Sampled: 12/23/15 15:30

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.97		0.010	mg/l	1	RSK-175	12/28/15	12/28/15 17:53	W5L1502	



## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W5L1502 - RSK-175

Blank (W5L1502-BLK1)					Prepared: 12/28/15		Analyzed: 12/28/15 16:34		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		ND		mg/l					
LCS (W5L1502-BS1)					Prepared: 12/28/15		Analyzed: 12/28/15 17:14		
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		
LCS Dup (W5L1502-BSD1)					Prepared: 12/28/15		Analyzed: 12/28/15 16:14		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.187		mg/l	0.198	94	85-115	3	20
Duplicate (W5L1502-DUP1)					Prepared: 12/28/15		Analyzed: 12/28/15 18:13		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....	0.971 .....	1.28	QR-03	mg/l				27	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**

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 entirety.*

**Flags for Data Qualifiers:**

<b>QR-03</b>	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Client		City of Lomita		System Number		Analysis Requested									
Address		24373 Walnut Avenue		1910073											
Phone #		(310) 325-9830		Destination Laboratory											
Fax #		(310) 325-3627		[X] Clinical Laboratory											
Project		Standard Analysis		CDWR Compliance											
Sub Project		CWPF Weekly Compliance Analysis		YES											
Comments		ELAP #		1088											
Sampled by		Edward Duvier													
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes
12/23/15	1052	Filter Effluent Site (Chloramine) #3	DW	1W	N/A	—	X	X				X			W13-005
															W13-005
															E13-005A
12/23/15	1050	Reservoir Effluent Site #5	DW	1W	N/A	—			X						
12/23/15	1051	Reservoir Effluent Site #5	DW	1W	HCL	—							X		
		Zone #2 Site #6	DW	1W	N/A										
Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl (5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Cold (8) Other:															
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company							
		Edward Duvier		12-23-15 12:35				B. Blawie C.I.S.B.							
		B. Blawie C.I.S.B.		12/23/15 3:30				B. Blawie C.I.S.B.							
Comments:		Samples received: (X) On ice (X) Intact (X) Custody seals Temp 11 ( ) F (X) C													
Shipped Via		Fed X UPS Client Other													
		Page 1 of 1													

# *Clinical Laboratory of San Bernardino, Inc.*



07 January 2016

Clinical Lab No.: 15L2403

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

Project Name: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 12/30/15 . 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,

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWP Weekly Compliance Analysis  
Project Manager: Mark Andersen

Work Order: 15L2403  
Received: 12/30/15 15:45  
Reported: 01/07/16

**Filter Effluent Site (Chloramine) #3**      **15L2403-01 (Water)**      **Sample Date:** 12/30/15 11:55      **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Physical Analyses

<b>Apparent Color</b>	SM 2120B	<b>5.0</b>	3.0	15	Color Units	12/30/15	12/30/15	1553460	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/04/16	01/04/16	1602014	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/04/16	01/04/16	1602014	

**Reservoir Effluent Site #5**      **15L2403-02 (Water)**      **Sample Date:** 12/30/15 11:57      **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>680</b>	5.0	1000	mg/L	12/31/15	01/04/16	1553436	
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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**

December 2015					
DATE	TIME	METHANE HANDHELD		COMMENTS	
12/1/2015	3:00 PM	CH4-	0%	Oxy-	20.9%
12/2/2015	4:00 PM	CH4-	0%	Oxy-	20.9%
12/3/2015	2:30 PM	CH4-	0%	Oxy-	20.7%
12/4/2015					
12/5/2015					
12/6/2015					
12/7/2015	8:00 AM	CH4-	1%	Oxy-	20.7%
12/8/2015	1:30 PM	CH4-	0%	Oxy-	20.9%
12/9/2015	4:00 PM	CH4-	1%	Oxy-	20.5%
12/10/2015	10:00 AM	CH4-	0%	Oxy-	20.9%
12/11/2015	2:00 PM	CH4-	2%	Oxy-	20.9%
12/12/2015					
12/13/2015					
12/14/2015	8:00 AM	CH4-	0%	Oxy-	20.9%
12/15/2015	2:15 PM	CH4-	1%	Oxy-	20.5%
12/16/2015	3:30 PM	CH4-	0%	Oxy-	20.6%
12/17/2015	1:15 PM	CH4-	0%	Oxy-	20.9%
12/18/2015					
12/19/2015					
12/20/2015					
12/21/2015	3:00 PM	CH4-	3%	Oxy-	20.7%
12/22/2015	8:00 AM	CH4-	0%	Oxy-	20.9%
12/23/2015	3:15 PM	CH4-	3%	Oxy-	20.5%
12/24/2015	3:15 PM	CH4-	0%	Oxy-	20.9%
12/25/2015					
12/26/2015					
12/27/2015					
12/28/2015	9:30 AM	CH4-	0%	Oxy-	20.9%
12/29/2015	2:30 PM	CH4-	0%	Oxy-	21.0%
12/30/2015	10:30 AM	CH4-	0%	Oxy-	20.9%
12/31/2015	10:00 AM	CH4-	0%	Oxy-	20.9%
ND- Non Detect CH4- Methane Oxy- Oxygen Weekend/Day Off/Holiday- Red					



## **APPENDIX C**

### **NITRIFICATION MONITORING DATA SUMMARY**

1MONTHLY NITRIFICATION MONITORING SUMMARY REPORT  
CITY OF LOMITA, System No. 1910073 --- Month, Year: DECEMBER 2015

#	C o d e	Sample I.D	Location	Sample Date (and Time)	Temp	pH	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite	Nitrate	Coliform <sup>2</sup>	HPC	Z o n e	Comments
Units/Others→																
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	MMDDYYYY X:xx am/pm 12/2/2015	21	8.0	2.50	0.66	0.66	-	mg/L 0.005	-	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	12/2/2015	22	7.8	2.20	0.57	0.57	-	0.009	-	A	ND	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	12/2/2015	22	7.5	2.85	0.66	0.66	-	0.007	-	-	ND	1	We//MWD Blend
4	D	A	2052 Dawn St	12/2/2015	22	7.8	2.10	0.40	0.60	-	0.007	-	-	ND	1	We//MWD Blend
5	D		Reservoir	12/2/2015	22	7.8	3.08	0.70	0.70	-	0.005	-	-	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 <sup>th</sup> Pl	12/2/2015	19	7.3	1.83	0.35	0.37	-	0.018	-	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	12/2/2015	19	8.0	1.91	0.37	0.40	-	0.024	-	A	ND	3	MWD Only
8	D	13-5	2500 PCH	12/2/2015	20	7.5	1.23	0.12	0.27	-	0.025	-	A	ND	2	MWD Only
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	12/9/2015	21	7.8	2.52	0.65	0.66	-	0.007	ND	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	12/9/2015	21	7.5	2.04	0.35	0.57	-	0.008	ND	A	ND	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	12/9/2015	21	7.8	2.22	0.53	0.66	-	0.009	ND	-	9	1	We//MWD Blend
4	D	A	2052 Dawn St	12/9/2015	21	7.8	2.62	0.66	0.60	-	0.009	ND	-	ND	1	We//MWD Blend
5	D		Reservoir	12/9/2015	21	7.8	2.68	0.70	0.70	-	0.005	ND	-	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 <sup>th</sup> Pl	12/9/2015	20	8.0	1.91	0.42	0.37	-	0.006	ND	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	12/9/2015	20	8.0	1.96	0.49	0.40	-	0.003	ND	A	ND	3	MWD Only
8	D	13-5	2500 PCH	12/9/2015	19	7.8	2.06	0.42	0.27	-	0.016	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	12/16/2015	18	7.3	2.50	0.42	0.42	0.03	0.003	ND	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	12/16/2015	18	7.5	1.43	0.78	0.56	0.14	0.018	ND	A	33	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	12/16/2015	18	7.5	2.02	0.52	0.60	0.00	0.011	ND	A	22	1	We//MWD Blend
4	D	A	2052 Dawn St	12/16/2015	19	7.3	0.73	0.32	0.60	0.35	0.018	ND	A	75	1	We//MWD Blend
5	D		Reservoir	12/16/2015	18	7.8	2.26	0.70	0.40	0.00	0.001	ND	A	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 <sup>th</sup> Pl	12/16/2015	18	8.0	2.09	0.30	0.62	0.00	0.012	ND	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	12/16/2015	18	7.8	2.13	0.22	0.62	0.00	0.008	ND	A	ND	3	MWD Only
8	D	13-5	2500 PCH	12/16/2015	19	8.0	2.00	0.29	0.27	0.00	0.016	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	12/23/2015	18	7.3	2.26	0.42	0.42	0.03	0.003	ND	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	12/23/2015	18	7.5	1.61	0.13	0.76	0.58	0.027	ND	A	1	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	12/23/2015	18	7.5	2.00	0.34	0.74	0.33	0.016	ND	A	9	1	We//MWD Blend
4	D	A	2052 Dawn St	12/23/2015	18	7.3	0.59	0.06	0.70	0.65	0.057	ND	A	ND	1	We//MWD Blend
5	D		Reservoir	12/23/2015	19	7.8	3.58	0.78	0.82	0.07	0.006	ND	A	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 <sup>th</sup> Pl	12/23/2015	17	8.0	2.20	0.49	0.68	0.00	0.006	ND	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	12/23/2015	17	7.8	2.00	0.43	0.69	0.00	0.006	ND	A	ND	3	MWD Only
8	D	13-5	2500 PCH	12/23/2015	17	8.0	2.00	0.45	0.65	0.00	0.007	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	12/30/2015	17	7.5	2.06	0.39	0.48	0.30	0.009	ND	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	12/30/2015	18	7.5	0.92	0.12	0.24	0.37	0.080	ND	A	27	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	12/30/2015	17	7.5	1.79	0.33	0.46	0.39	0.016	ND	A	100	1	We//MWD Blend
4	D	A	2052 Dawn St	12/30/2015	18	7.5	0.17	0.01	0.05	0.32	0.221	ND	A	490	1	We//MWD Blend
5	D		Reservoir	12/30/2015	19	7.8	2.75	0.71	0.52	0.00	0.005	ND	A	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 <sup>th</sup> Pl	12/30/2015	17	7.8	2.04	0.48	0.42	0.00	0.008	ND	A	1	2	MWD Only
7	D	13-2	26314 S Monte Vta.	12/30/2015	17	8.0	2.00	0.45	0.44	0.07	0.005	ND	A	ND	3	MWD Only
8	D	13-5	2500 PCH	12/30/2015	18	8.0	2.10	0.47	0.42	0.00	0.008	ND	A	ND	2	MWD Only

<sup>1</sup>Notes: Report Due to DDW by the 10<sup>th</sup> 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).

<sup>2</sup>Coliform results are part of weekly Bacti sampling results.