

CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

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August 2015

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**CITY COUNCIL**

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



**CITY OF LOMITA**

**ADMINISTRATION**

STEPHEN BURRELL  
INTERIM CITY MANAGER

September 10, 2015

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

Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of August 1 through August 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 August 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 August 2015, the CWPF operated on a fill and draw cycle providing blended water with the reservoir level fluctuating with system demand. The Cypress Reservoir filled and drew for approximately 22 days and 9 days, respectively. The Cypress Reservoir effluent valve remained open for the entire month of August 2015. The total production from Well No. 5 for the month was approximately 49.44 ac-ft (16,109,908 gallons) with a daily production of approximately 2.25 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 124.76 ac-ft (40,649,893 gallons) for the month with a combined daily production of approximately 5.67 ac-ft.

The daily average flow from Well No. 5 was 555 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 40% Well water and 60% MWD water.

## **C. OPERATIONAL INTERRUPTIONS**

There were no operational interruptions during the month of August 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 in the raw water (SP1) for the month was below the Maximum Contaminant Level (MCL). Iron concentration in the raw water (SP1) was at the MCL. Manganese concentration in the raw water (SP1) was above the MCL. Iron and Manganese levels entering the reservoir (SP3) were non-detect, indicating the greensand filtration system remains highly effective. Other additional bacteriological laboratory samples collected included Total Coliform and Heterotrophic Plate Count (HPC) levels on the effluent side of the greensand filter (SP2) showing absent for both.

### **E2. FREE AND TOTAL CHLORINE RESIDUALS**

Daily free chlorine residuals were monitored at SP2, SP3 and SP4. Daily total chlorine residuals were monitored at SP3 and SP5. Free chlorine and total chlorine residuals, at all respective sample points, were monitored using a combination of continuous chlorine analyzers and SCADA. See Table 2 below for a weekly summary of results.

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

See Table 3 below for a summary of the results for the monitoring of Total Dissolved Solids (TDS), Odor (as measured by the Threshold Odor No. - T.O.N.), Total Hardness as Calcium Carbonate, and Methane levels in water at three sample locations SP1, SP5 and SP6.

#### **E3-1 TOTAL DISSOLVED SOLIDS (TDS)**

The sampling results indicate the TDS levels of the effluent blended water to be on average 680 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 720 mg/L and 660 mg/L, respectively.

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

The sampling results for the month of August indicate the hardness levels of the blended water to be 300 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 0.66 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 August 2015 in Appendix B.

## **E4. NITRIFICATION MONITORING**

See attached Nitrification Monitoring Data Summary Report for the month of August 2015 in Appendix C.

## **E5. SYNTHETIC ORGANIC CHEMICALS (SOCs)**

During the month of August 2015, Synthetic Organic Chemicals (SOCs) were sampled at Well No. 5, per the Second Period Vulnerability Assessment (January 1, 2014 through December 31, 2016). See attached results in Appendix A.

## 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 = 300 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
8/5/2015											ND	300	ND	50	ND	15
8/12/2015	210	300	110	50	15	15	A	A	A	500	ND	300	ND	50	ND	15
8/19/2015											ND	300	ND	50	ND	15
8/26/2015											ND	300	ND	50	ND	15

Notes: Monthly- Orange      Weekly- Yellow  
A – Absent  
ND – Non Detect  
\*Per the SWRCB Drinking Water “Chemicals and Contaminants in Drinking Water” Regulations

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	Free Cl	Total Cl	MCL= 4 mg/L
8/5/2015	13.46	7.87	12.02	0.65	3.44	4
8/12/2015	15.63	10.40	12.24	0.70	3.55	4
8/19/2015	12.72	8.40	12.46	1.10	3.46	4
8/26/2015	21.52	2.83	7.25	0.68	3.37	4

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
8/5/2015			650	500-750			300	180-250		0.70
8/12/2015	720	660	700	500-750					6.4	0.61
8/19/2015			700	500-750	1	3				0.72
8/26/2015			670	500-750						0.60
Average			680							0.66

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

## **APPENDIX A**

### **LABORATORY RESULTS**

# Clinical Laboratory of San Bernardino, Inc.



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

Project: SOC's  
Sub Project: Title 22 - SOC  
Project Manager: Mark Andersen

Work Order: 15H1171  
Received: 08/12/15 16:30  
Reported: 09/08/15

## Raw Water Site #1

15H1171-01 (Water)

Sample Date: 08/12/15 9:35

Sampler: Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
<b><u>Volatile Organic Analyses / EPA 504</u></b>									
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	0.05	ug/L	08/18/15	08/18/15	1534046	
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	0.2	ug/L	08/18/15	08/18/15	1534046	
<b><u>Semi-Volatile Organic Analyses</u></b>									
Endrin	EPA 508.1	ND	0.10	2	ug/L	08/14/15	08/23/15	1533610	
Lindane (gamma-BHC)	EPA 508.1	ND	0.20	0.2	ug/L	08/14/15	08/23/15	1533610	
Methoxychlor	EPA 508.1	ND	10	30	ug/L	08/14/15	08/23/15	1533610	
Toxaphene	EPA 508.1	ND	1.0	3	ug/L	08/14/15	08/23/15	1533610	
Chlordane	EPA 508.1	ND	0.10	0.1	ug/L	08/14/15	08/23/15	1533610	
Heptachlor	EPA 508.1	ND	0.010	0.01	ug/L	08/14/15	08/23/15	1533610	
Heptachlor Epoxide	EPA 508.1	ND	0.010	0.01	ug/L	08/14/15	08/23/15	1533610	
Hexachlorobenzene	EPA 508.1	ND	0.50	1	ug/L	08/14/15	08/23/15	1533610	
Hexachlorocyclopentadiene	EPA 508.1	ND	1.0	50	ug/L	08/14/15	08/23/15	1533610	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	0.50	0.5	ug/L	08/14/15	08/23/15	1533610	
Surrogate: Dibutylchlorendate	EPA 508.1	124 %				08/14/15	08/23/15	1533610	
Dalapon	EPA 515.4	ND	10	200	ug/L	08/21/15	08/26/15	1534539	
2,4,5-TP (SILVEX)	EPA 515.4	ND	1.0	50	ug/L	08/21/15	08/26/15	1534539	
Bentazon (BASAGRAN)	EPA 515.4	ND	2.0	18	ug/L	08/21/15	08/26/15	1534539	
Picloram	EPA 515.4	ND	1.0	500	ug/L	08/21/15	08/26/15	1534539	
2,4-D	EPA 515.4	ND	10	70	ug/L	08/21/15	08/26/15	1534539	
Pentachlorophenol (PCP)	EPA 515.4	ND	0.20	1	ug/L	08/21/15	08/26/15	1534539	
Dinoseb (DNBP)	EPA 515.4	ND	2.0	7	ug/L	08/21/15	08/26/15	1534539	
Surrogate: 2,4-Dichlorophenylacetic acid	EPA 515.4	111 %				08/21/15	08/26/15	1534539	
Alachlor (ALANEX)	EPA 525.2	ND	1.0	2	ug/L	08/17/15	08/18/15	1534015	
Atrazine (AATREX)	EPA 525.2	ND	0.50	1	ug/L	08/17/15	08/18/15	1534015	
Benzo(a)pyrene	EPA 525.2	ND	0.10	0.2	ug/L	08/17/15	08/18/15	1534015	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	3.0	4	ug/L	08/17/15	08/18/15	1534015	
Di(2-ethylhexyl) adipate	EPA 525.2	ND	5.0	400	ug/L	08/17/15	08/18/15	1534015	
Molinate (ORDRAM)	EPA 525.2	ND	2.0	20	ug/L	08/17/15	08/18/15	1534015	
Simazine (PRINCEP)	EPA 525.2	ND	1.0	4	ug/L	08/17/15	08/18/15	1534015	
Thiobencarb (BOLERO)	EPA 525.2	ND	1.0	70	ug/L	08/17/15	08/18/15	1534015	
Surrogate: 1,3-dimethyl-2-nitrobenzene	EPA 525.2	101 %				08/17/15	08/18/15	1534015	
Surrogate: Perylene-d12	EPA 525.2	114 %				08/17/15	08/18/15	1534015	
Surrogate: Triphenylphosphate	EPA 525.2	99 %				08/17/15	08/18/15	1534015	
Oxamyl (VYDATE)	EPA 531.1	ND	20	50	ug/L	08/24/15	08/25/15	1535037	
Carbofuran (FURADAN)	EPA 531.1	ND	5.0	18	ug/L	08/24/15	08/25/15	1535037	
Glyphosate	EPA 547	ND	25	700	ug/L	08/21/15	08/22/15	1534560	
Endothall	EPA 548.1	ND	45	100	ug/L	08/17/15	08/19/15	1534006	

ND Analyte NOT DETECTED at or above the reporting limit

# *Clinical Laboratory of San Bernardino, Inc.*



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

Project: SOC's  
Sub Project: Title 22 - SOC  
Project Manager: Mark Andersen

Work Order: 15H1171  
Received: 08/12/15 16:30  
Reported: 09/08/15

**Stu Styles**  
**Client Services Manager**

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 15H1171

Report Date: 09/08/2015

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	Station No.: 1910073-003			Sampled: 150812 09:35	
BENZO (A) PYRENE	Result: ND	Units: UG/L	Entry No.: 34247	Analyzed: 150818	
HEXACHLOROCYCLOPENTADIENE	Result: ND	Units: UG/L	Entry No.: 34386	Analyzed: 150823	
DALAPON (DOWPON)	Result: ND	Units: UG/L	Entry No.: 38432	Analyzed: 150826	
BENTAZON (BASAGRAN)	Result: ND	Units: UG/L	Entry No.: 38710	Analyzed: 150826	
DIBROMOCHLOROPROPANE (DBCP)	Result: ND	Units: UG/L	Entry No.: 38761	Analyzed: 150818	
OXAMYL (VYDATE)	Result: ND	Units: UG/L	Entry No.: 38865	Analyzed: 150825	
ENDOTHALL	Result: ND	Units: UG/L	Entry No.: 38926	Analyzed: 150819	
PENTACHLOROPHENOL	Result: ND	Units: UG/L	Entry No.: 39032	Analyzed: 150826	
ATRAZINE (AATREX)	Result: ND	Units: UG/L	Entry No.: 39033	Analyzed: 150818	
2,4,5-TP (SILVEX)	Result: ND	Units: UG/L	Entry No.: 39045	Analyzed: 150826	
SIMAZINE (PRINCEP)	Result: ND	Units: UG/L	Entry No.: 39055	Analyzed: 150818	
DI(2-ETHYLHEXYL)PHTHALATE	Result: ND	Units: UG/L	Entry No.: 39100	Analyzed: 150818	
LINDANE (gamma-BHC)	Result: ND	Units: UG/L	Entry No.: 39340	Analyzed: 150823	
CHLORDANE (CHLORDAN)	Result: ND	Units: UG/L	Entry No.: 39350	Analyzed: 150823	
ENDRIN (HEXADRIN)	Result: ND	Units: UG/L	Entry No.: 39390	Analyzed: 150823	
TOXAPHENE	Result: ND	Units: UG/L	Entry No.: 39400	Analyzed: 150823	
HEPTACHLOR	Result: ND	Units: UG/L	Entry No.: 39410	Analyzed: 150823	
HEPTACHLOR EPOXIDE	Result: ND	Units: UG/L	Entry No.: 39420	Analyzed: 150823	
METHOXYCHLOR	Result: ND	Units: UG/L	Entry No.: 39480	Analyzed: 150823	
POLYCHLORINATED BIPHENYLS (TOTAL	Result: ND	Units: UG/L	Entry No.: 39516	Analyzed: 150823	
HEXACHLORO BENZENE	Result: ND	Units: UG/L	Entry No.: 39700	Analyzed: 150823	
PICLORAM (TORDON)	Result: ND	Units: UG/L	Entry No.: 39720	Analyzed: 150826	
2,4-D	Result: ND	Units: UG/L	Entry No.: 39730	Analyzed: 150826	
ETHYLENE DIBROMIDE (EDB)	Result: ND	Units: UG/L	Entry No.: 77651	Analyzed: 150818	
ALACHLOR (ALANEX)	Result: ND	Units: UG/L	Entry No.: 77825	Analyzed: 150818	
GLYPHOSATE	Result: ND	Units: UG/L	Entry No.: 79743	Analyzed: 150822	
DINOSEB	Result: ND	Units: UG/L	Entry No.: 81287	Analyzed: 150826	
CARBOFURAN (FURADAN)	Result: ND	Units: UG/L	Entry No.: 81405	Analyzed: 150825	
MOLINATE (ORDRAM)	Result: ND	Units: UG/L	Entry No.: 82199	Analyzed: 150818	
THIOBENCARB (BOLERO)	Result: ND	Units: UG/L	Entry No.: A-001	Analyzed: 150818	
DI(2-ETHYLHEXYL)ADIPATE	Result: ND	Units: UG/L	Entry No.: A-026	Analyzed: 150818	



## Certificate of Analysis

Project: 15H1171

Report Date: 09/08/15 13:41

Received Date: 08/14/15 10:40

Turnaround Time: Normal

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: Bob Glaubig

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

Dear Bob Glaubig :

Enclosed are the results of analyses for samples received 8/14/2015 with the Chain of Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5H14032-01

Sample ID: Raw Water Site #1 / 15H1171-01

Matrix: Water

Sampled by: Client

Sampled: 08/12/15 09:35

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
2,3,7,8-TCDD (Dioxin)	ND		5.00	pg/l	1	EPA 1613B	8/14/15	8/17/15 20:51	W5H0794	
Diquat	ND		4.0	ug/l	1	EPA 549.2	8/17/15	8/31/15 16:55	W5H0870	



## Certificate of Analysis

## Quality Control Section

## Diquat and Paraquat by EPA 549.2 - Quality Control

## Batch W5H0870 - EPA 549.2

## Blank (W5H0870-BLK1)

Prepared: 08/17/15 Analyzed: 08/31/15 16:20

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

## LCS (W5H0870-BS1)

Prepared: 08/17/15 Analyzed: 08/31/15 16:24

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat .....		14.3		ug/l	20.0	71	48-130		

## Matrix Spike (W5H0870-MS1)

Source: 5H14006-01

Prepared: 08/17/15 Analyzed: 08/31/15 16:29

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat .....	ND .....	17.5		ug/l	20.0	88	46-122		

## Matrix Spike Dup (W5H0870-MSD1)

Source: 5H14006-01

Prepared: 08/17/15 Analyzed: 08/31/15 16:33

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat .....	ND .....	16.5		ug/l	20.0	82	46-122	6	30

## Semivolatile Organics - Low Level by Tandem GC/MS/MS - Quality Control

## Batch W5H0794 - EPA 1613B

## Blank (W5H0794-BLK1)

Prepared: 08/14/15 Analyzed: 08/17/15 18:09

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin) .....		ND		pg/l					

## LCS (W5H0794-BS1)

Prepared: 08/14/15 Analyzed: 08/17/15 18:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin) .....		6.16		pg/l	5.00	123	50-148		

## LCS Dup (W5H0794-BSD1)

Prepared: 08/14/15 Analyzed: 08/17/15 18:45

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin) .....		5.48		pg/l	5.00	110	50-148	12	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



Date of Report: 15/09/08  
Laboratory Name: Weck Laboratories, Inc  
Name of Sampler: Client

Sample ID No.: 5H14032-01

Signature Lab Director: 

Date/Time Sample Collected: 15/08/12 0935

Date/Time Sample Received @ Lab: 15/08/14 1040

Date Analyses Completed: 15/08/31

System Name: LOMITA-CITY, WATER DEPT.

System Number: 1910073

Name or Number of Sample Source: WELL 05

User ID: 4TH

Station Number: 1910073-003

Date/Time of Sample: 15 | 08 | 12 | 09 | 35  
YY MM DD TT TT

Laboratory Code: 9588

Date of Analyses Completed: 15 | 08 | 31 |  
YY MM DD

Submitted By: Weck Laboratories, Inc

Phone #: (626) 336-2139

TEST METHOD	CHEMICAL	Units	ENTRY #	ANALYSES RESULTS	MCL	DLR
	<b>REGULATED ORGANIC CHEMICALS</b>					
	2,3,7,8-TCDD (Dioxin) Units=picogram/L	pg/L	34676	ND	30	5
549.2	Diquat	ug/L	78885	ND	20	4

Laboratory Comments and Description of Additional Components Found (Comments in this section are for Client Information only and will **NOT** be transmitted to CDPH via EDT):

Raw Water Site #1 / 15H1171-01 :

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**15H1171**

5H14032

**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 [ ] cole@clinical-lab.com

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

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

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

Subcontract Comments:

**Analysis**

**Comments**

Sample ID: Raw Water Site #1 / 15H1171-01

Sampled: 08/12/15 09:35 PS Code: 1910073-003

Water

WTX ID:

UCMR ID:

549 Diquat

1613 Dioxins

Containers Supplied:

1 L Amber Glass Na Thio EPA 1613 (H) 1 L Amber Glass Na Thio EPA 1613 (I) 1 L Amber Glass Na Thio EPA 1613 (J)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

3.1

1521171

# Chain of Custody

WO

**21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300**

[illegible]Page      of

# *Clinical Laboratory of San Bernardino, Inc.*



08 September 2015

Clinical Lab No.: 15H2177

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

Project Name: Standard Analysis  
Sub Project:

Enclosed are the results of the analyses for samples received at the laboratory on 08/26/15 . 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:  
Project Manager: Mark Andersen

Work Order: 15H2177  
Received: 08/26/15 15:30  
Reported: 09/08/15

**Filter Effluent Site #3** **15H2177-01 (Water)** **Sample Date:** 08/26/15 11:10 **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	08/26/15	08/26/15	1535441	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/31/15	08/31/15	1536011	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/31/15	08/31/15	1536011	
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**Reservoir Effluent Site #5** **15H2177-02 (Water)** **Sample Date:** 08/26/15 11:08 **Sampler:** Edward Duvivier

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

## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>670</b>	5.0	1000	mg/L	08/28/15	09/01/15	1535500	
-------------------------------------	----------	------------	-----	------	------	----------	----------	---------	--

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 15H2177

Report Date: 09/08/2015

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: 150826 11:10

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 150826

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 150831

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 150831



## Certificate of Analysis

Project: 15H2177

Report Date: 09/02/15 17:11

Received Date: 08/27/15 11:30

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 8/27/2015 with the Chain of Custody document. The samples were received in good condition, at 2.6 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5H27040-01

Sample ID: Reservoir Effluent Site #5/ 15H2177-02

Matrix: Water

Sampled by: Client

Sampled: 08/26/15 11:08

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.60		0.010	mg/l	1	RSK-175	8/28/15	8/28/15 14:17	W5H1581	



## Certificate of Analysis

## Quality Control Section

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

## Batch W5H1581 - RSK-175

## Blank (W5H1581-BLK1)

Prepared: 08/28/15 Analyzed: 08/28/15 13:34

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

## LCS (W5H1581-BS1)

Prepared: 08/28/15 Analyzed: 08/28/15 13:56

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.198		mg/l	0.198	100	85-115		

## Calibration Check (W5H1581-CCV1)

Prepared: 08/28/15 Analyzed: 08/28/15 13:45

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.00633		mg/l	0.00792	80	50-150		

## Calibration Check (W5H1581-CCV2)

Prepared: 08/28/15 Analyzed: 08/28/15 13:24

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.198		mg/l	0.198	100	85-115		



## 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  
15H2177

5427040

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 [ ] cole@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 / 15H2177-02

Sampled: 08/26/15 11:08 PS Code:  
Water

WTX ID:  
UCMR ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Released By: *Stu Styles* Date / Time: 08/27/15 08:00 Received By: *[Signature]* Date / Time: 8.27.15 11:30  
2.6

Client		City of Lomita		System Number		Analysis Requested							Comments / P.S. Codes	
Address		24373 Walnut Avenue Lomita, CA 91717		1910073										
Phone #		(310) 325-9830		Destination Laboratory										
Fax #		(310) 325-3627		[X] Clinical Laboratory										
Project		Standard Analysis		CDHP Compliance										
Sub Project				XES										
Comments		Edward D. V. ...		ELAP #										
Sampled by		1088												
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine	Total Alkalinity	Total Hardness (as CaCO <sub>3</sub> )	Total Dissolved Solids	Iron	Manganese	Color	Methane (WATER) (RSK175)	Comments / P.S. Codes
		Raw Water Site #1	DW	1W	N/A									
8/24	11:10	Filter Effluent Site #3	DW	1W	N/A	-				X	X	X		
		Reservoir Influent Site #4	DW	1W	N/A									
		Reservoir Effluent Site #5	DW	1W	N/A	-				X				
	11:08	Reservoir Effluent Site #5	DW	1W	7.2								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						
[Signature]		Edward D. V. ...		8/26/2015 11:20		[Signature]		J. Vucob / CLS						
[Signature]		City of Lomita		8-26-15 / 3:30		[Signature]		J. Vucob / CLS						
Comments:		J. Vucob / CLS				Samples received: [Signature] On ice [Signature] Intact ( ) Custody seals								
						Temp 20.1 ( ) F X								
Shipped Via		Fed X		Golden State		UPS		Client		Other		Page 1 of 1		

# *Clinical Laboratory of San Bernardino, Inc.*



28 August 2015

Clinical Lab No.: 15H1730

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

Project Name: Standard Analysis  
Sub Project: Weekly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 08/19/15 . 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: Weekly Compliance  
Project Manager: Mark Andersen

Work Order: 15H1730  
Received: 08/19/15 16:00  
Reported: 08/28/15

**Filter Effluent Site #3** **15H1730-01 (Water)** **Sample Date:** 08/19/15 10:04 **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	08/19/15	08/19/15	1534498	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/25/15	08/26/15	1535067	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/25/15	08/26/15	1535067	
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**Reservoir Effluent Site #5** **15H1730-02 (Water)** **Sample Date:** 08/19/15 9:51 **Sampler:** Edward Duvivier

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

Odor Threshold	EPA 140.1M	1	1	3	TON	08/19/15	08/19/15	1534498	
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## General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	08/20/15	08/21/15	1534476	
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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: 15H1730

Report Date: 08/28/2015

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: 150819 10:04

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 150819

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 150826

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 150826



## Certificate of Analysis

Project: 15H1730

Report Date: 08/31/15 15:03

Received Date: 08/21/15 10:20

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 8/21/2015 with the Chain of Custody document. The samples were received in good condition, at 4.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5H21028-01

Sample ID: Reservoir Effluent Site #5 / 15H1730-02

Matrix: Water

Sampled by: Client

Sampled: 08/19/15 09:30

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.72		0.010	mg/l	1	RSK-175	8/28/15	8/28/15 14:06	W5H1581	



## Certificate of Analysis

## Quality Control Section

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

## Batch W5H1581 - RSK-175

## Blank (W5H1581-BLK1)

Prepared: 08/28/15 Analyzed: 08/28/15 13:34

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

## LCS (W5H1581-BS1)

Prepared: 08/28/15 Analyzed: 08/28/15 13:56

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.198		mg/l	0.198	100	85-115		

## Calibration Check (W5H1581-CCV1)

Prepared: 08/28/15 Analyzed: 08/28/15 13:45

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.00633		mg/l	0.00792	80	50-150		

## Calibration Check (W5H1581-CCV2)

Prepared: 08/28/15 Analyzed: 08/28/15 13:24

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.198		mg/l	0.198	100	85-115		



## 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

15H1730

5H21028

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 [ ] cole@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 / 15H1730-02

Sampled: 08/19/15 09:50 PS Code:  
Water

WTX ID:  
UCMR ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Released By: *Bob Shuf* Date / Time: *08/21/15 08:00* Received By: *De Proano* Date / Time: *8/21/15 9:12*  
Released By: *De Proano* Date / Time: *8/21/15 10:20* Received By: *Janhmen* Date / Time: *8/21/15 10:20 4.7°C*

Client		City of Lomita		System Number		Analysis Requested					
Address		24373 Walnut Avenue		1910073		Methane (WATER) (RSK175)					
Phone #		Lomita, CA 91717		Destination Laboratory		Color					
Fax #		(310) 325-9830		[X] Clinical Laboratory		Odor					
Project		(310) 325-3627		CDHP Compliance		Total Dissolved Solids					
Sub Project		Standard Analysis		YES		Manganese					
Comments		Weekly Compliance		ELAP #		Iron					
Sampled by		Edward D. Davis		1088							
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine					
		Raw Water Site #1	DW	1W	N/A						
		Raw Water Site #1	DW		2,7						
		Filter Effluent Site #3	DW	1W	N/A		X	X			
8/19/15	1004	Zone #2 Site #6	DW	1D	N/A						
		Reservoir Effluent Site #5 (1)	DW	1D	N/A			X			
8/19/15	0949	Reservoir Effluent Site #5 (2)	DW	1D	2,7				X		
8/19/15	0957	Reservoir Effluent Site #5 (1)	DW	1D	NA				X		
8/19/15	0950										
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:		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.									
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company			
Edward D. Davis		Edward D. Davis		8/19/15 1200		J. Lucero		J. Lucero / CSB			
City of Lomita		City of Lomita		8-19-15 / 4:00		K. Hunsley		K. Hunsley / CSB			
Comments:		J. Lucero / CSB				Samples received: (X) On ice ( ) Intact ( ) Custody seals Temp 16.7 ( ) F ( ) C					
Shipped Via		Fed X		Golden State		UPS		Client		Other	
										Page 1 of 1	

# *Clinical Laboratory of San Bernardino, Inc.*



24 August 2015

Clinical Lab No.: 15H1172

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 08/12/15 . 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: 15H1172  
Received: 08/12/15 16:30  
Reported: 08/24/15

## Raw Water Site #1

15H1172-01 (Water)

Sample Date: 08/12/15 9:01 Sampler: Edward Duvivier

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

### Field Analyses

Cl Res Total (Field)	Field	0		N/A	mg/L	08/12/15	08/12/15	1533564	
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### Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	08/12/15	08/13/15	1533516	
E. Coli	SM 9223	A		N/A	P/A	08/12/15	08/13/15	1533516	

### General Physical Analyses

Apparent Color	SM 2120B	15.0	3.0	15	Color Units	08/13/15	08/13/15	1533601	
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### General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	720	5.0	1000	mg/L	08/14/15	08/17/15	1533614	
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### Metals

Iron (Fe)	EPA 200.7	210	100	300	ug/L	08/18/15	08/18/15	1534165	
Manganese (Mn)	EPA 200.7	110	20	50	ug/L	08/18/15	08/18/15	1534165	

## Filter Effluent (Free Chlorine) Site #2

15H1172-02 (Water)

Sample Date: 08/12/15 8:56 Sampler: Edward Duvivier

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

Cl Res Total (Field)	Field	11.36		N/A	mg/L	08/21/15	08/21/15	1534511	
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### Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	08/12/15	08/13/15	1533516	
E. Coli	SM 9223	A		N/A	P/A	08/12/15	08/13/15	1533516	
Plate Count	SM9215B	ND	1	500	CFU/ml	08/12/15	08/14/15	1533613	HT-08

## Filter Effluent (Total Chlorine) Site #3

15H1172-03 (Water)

Sample Date: 08/12/15 8:59 Sampler: Edward Duvivier

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

Cl Res Total (Field)	Field	12.64		N/A	mg/L	08/21/15	08/21/15	1534511	
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### General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	08/13/15	08/13/15	1533601	
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### Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/18/15	08/18/15	1534165	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/18/15	08/18/15	1534165	

# Clinical Laboratory of San Bernardino, Inc.



<b>Lomita, City of</b>	Project: Standard Analysis	Work Order: 15H1172
24373 Walnut Avenue	Sub Project: Monthly Compliance	Received: 08/12/15 16:30
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 08/24/15

**Zone #2 Site #6** **15H1172-04 (Water)** **Sample Date:** 08/12/15 9:04 **Sampler:** Edward Duvivier

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

**Total Filterable Residue/TDS** SM 2540C **660** 5.0 1000 mg/L 08/14/15 08/17/15 1533614

**Reservoir Effluent Site #5** **15H1172-05 (Water)** **Sample Date:** 08/12/15 8:51 **Sampler:** Edward Duvivier

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

**Cl Res Total (Field)** Field **3.58** N/A mg/L 08/21/15 08/21/15 1534511

## General Physical Analyses

**Apparent Color** SM 2120B ND 3.0 15 Color Units 08/13/15 08/13/15 1533601

## General Chemical Analyses

**Total Filterable Residue/TDS** SM 2540C **700** 5.0 1000 mg/L 08/14/15 08/17/15 1533614

HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

ND Analyte NOT DETECTED at or above the reporting limit



## Certificate of Analysis

Project: 15H1172

Report Date: 08/20/15 15:05  
Received Date: 08/14/15 10:40  
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 8/14/2015 with the Chain of Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5H14029-01      Sample ID: Raw Water Site #1 / 15H1172-01      Matrix: Water  
Sampled by: John Styles      Sampled: 08/12/15 09:01

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	6.4		0.20	mg/l	20	RSK-175	8/14/15	8/14/15 18:10	W5H0787	

Lab ID: 5H14029-02      Sample ID: Reservoir Effluent Site #5 / 15H1172-05      Matrix: Water  
Sampled by: John Styles      Sampled: 08/12/15 08:51

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.61		0.010	mg/l	1	RSK-175	8/14/15	8/14/15 18:21	W5H0787	



## Certificate of Analysis

## Quality Control Section

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

## Batch W5H0787 - RSK-175

Blank (W5H0787-BLK1)					Prepared: 08/14/15		Analyzed: 08/14/15 17:17		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		ND		mg/l					
LCS (W5H0787-BS1)					Prepared: 08/14/15		Analyzed: 08/14/15 17:38		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.201		mg/l	0.198	101	85-115		
Calibration Check (W5H0787-CCV1)					Prepared: 08/14/15		Analyzed: 08/14/15 17:27		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.00821		mg/l	0.00792	104	50-150		
Calibration Check (W5H0787-CCV2)					Prepared: 08/14/15		Analyzed: 08/14/15 17:06		
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 (W5H0787-DUP1)		Source: 5H07056-01			Prepared: 08/14/15		Analyzed: 08/14/15 17:59		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....	0.697 .....	0.776		mg/l				11	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

5H14029

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**15H1172**

**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 [ ] cole@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 / 15H1172-01**

**Sampled: 08/12/15 09:01 PS Code:**  
**Water**

**WTX ID:**  
**UCMR 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 / 15H1172-05**

**Sampled: 08/12/15 08:51 PS Code:**  
**Water**

**WTX ID:**  
**UCMR ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

SUBCONTRACT ORDER  
Clinical Laboratory of San Bernardino  
15H1172

5H14029

**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 [ ] cole@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 / 15H1172-01

Sampled: 08/12/15 09:01 PS Code:  
Water

WTX ID:  
UCMR ID:

Methane RSK175

Report in mg/L

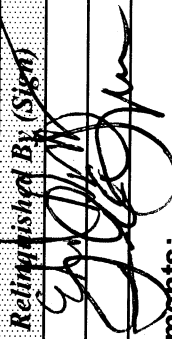
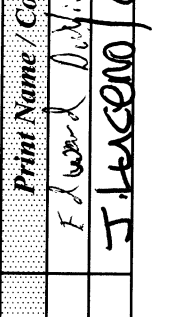
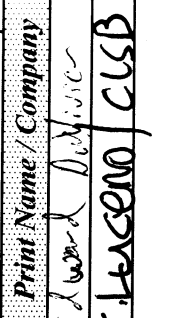
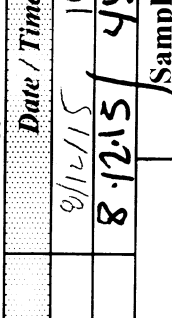
Containers Supplied:

40mL Amber Vial w/ Na2S2O3 (B)

40mL Amber Vial w/ Na2S2O3 (C)

3.1

Released By	<i>Stu Styles</i>	Date / Time	08/13/15 13:15	Received By	<i>Denny Chappano</i>	Date / Time	8/14/15 / 9:15
Released By	<i>Denny Chappano</i>	Date / Time	8/14/15 10:40	Received By	<i>[Signature]</i>	Date / Time	8.14.15 10:40

Client		City of Lomita		System Number		Analysis Requested	
Address		24373 Walnut Avenue Lomita, CA 91717		1910073			
Phone #		(310) 325-9830		Destination Laboratory			
Fax #		(310) 325-3627		[X] Clinical Laboratory			
Project		Standard Analysis		CDHP Compliance			
Sub Project		Monthly Compliance		YES			
Comments				ELAP #			
Sampled by		Edward Davis		1088			
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine
8/12/15	0900	Raw Water Site #1		GW	1W	N/A	0mg/L
8/12/15	0901	Raw Water Site #1		GW	1W	2,7	0mg/L
8/12/15	0857	Raw Water Site #1		GW	1W	1,7	0mg/L
8/12/15	0856	Filter Effluent (Free Chlorine) Site#2		DW	1W	1,7	
8/12/15	0859	Filter Effluent (Total Chlorine) Site#3		DW	1W	N/A	
8/12/15	0904	Zone #2 Site #6		DW	ID	N/A	
8/12/15	0850	Reservoir Effluent Site #5		DW	ID	N/A	
8/12/15	0851	Reservoir Effluent Site #5		DW	ID	2,7	
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)	
		Edward Davis		8/12/15 1048/1110			
		J. Lasceno / CLSB		8-12-15 4:30			
Comments:				Samples received: <del>On ice</del> Intact ( ) Custody seals		Temp 17.3 ( ) F <del>XXC</del>	
Shipped Via		Fed X Golden State UPS Client Other		Page 1 of 1			

# *Clinical Laboratory of San Bernardino, Inc.*



14 August 2015

Clinical Lab No.: 15H0485

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 08/05/15 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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 Non-Comp Analysis  
Project Manager: Mark Andersen

Work Order: 15H0485  
Received: 08/05/15 16:30  
Reported: 08/14/15

Reservoir Effluent Site #5      15H0485-01 (Water)      Sample Date: 08/05/15 8:04      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	300	6.6	N/A	mg/L	08/11/15	08/11/15	[CALC]	
Ortho-Phosphate (as P)	HACH 8048	0.096	0.0067	N/A	mg/L	08/06/15	08/06/15	1532478	
Phosphorus (Total as P)	HACH 8190	0.34	0.0067	N/A	mg/L	08/11/15	08/11/15	1533082	

## Metals

Calcium (Ca)	EPA 200.7	75	1.0	N/A	mg/L	08/11/15	08/11/15	1533098	
Magnesium (Mg)	EPA 200.7	27	1.0	N/A	mg/L	08/11/15	08/11/15	1533098	

ND      Analyte NOT DETECTED at or above the reporting limit

154 0485 Chain of Custody

1 plastic Bottle (shared)

## *"Your Water and Wastewater Analysis Solution"*

## *"Your Water and Wastewater Analysis Solution"*

# *Clinical Laboratory of San Bernardino, Inc.*



14 August 2015

Clinical Lab No.: 15H0482

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 08/05/15. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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: 15H0482  
Received: 08/05/15 17:20  
Reported: 08/14/15

**Filter Effluent Site (Chloramine) #3**      **15H0482-01 (Water)**      **Sample Date:** 08/05/15 8:08      **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	08/06/15	08/07/15	1532615	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/12/15	08/12/15	1533249	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/12/15	08/12/15	1533249	
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**Reservoir Effluent Site #5**      **15H0482-02 (Water)**      **Sample Date:** 08/05/15 8:05      **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>650</b>	5.0	1000	mg/L	08/06/15	08/07/15	1532496	
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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: 15H0482

Report Date: 08/14/2015

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: 150805 08:08

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 150807

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 150812

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 150812



## Certificate of Analysis

Project: 15H0482

Report Date: 08/17/15 16:51

Received Date: 08/07/15 10:10

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 8/7/2015 with the Chain of Custody document. The samples were received in good condition, at 4.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5H07056-01

Sample ID: Reservoir Effluent Site #5/ 15H0482-02

Matrix: Water

Sampled by: Client

Sampled: 08/05/15 08:05

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane .....	0.70		0.010	mg/l	1	RSK-175	8/14/15	8/14/15 17:49	W5H0787	



## Certificate of Analysis

## Quality Control Section

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

## Batch W5H0787 - RSK-175

Blank (W5H0787-BLK1)					Prepared: 08/14/15		Analyzed: 08/14/15 17:17		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		ND		mg/l					
LCS (W5H0787-BS1)					Prepared: 08/14/15		Analyzed: 08/14/15 17:38		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.201		mg/l	0.198	101	85-115		
Calibration Check (W5H0787-CCV1)					Prepared: 08/14/15		Analyzed: 08/14/15 17:27		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....		0.00821		mg/l	0.00792	104	50-150		
Calibration Check (W5H0787-CCV2)					Prepared: 08/14/15		Analyzed: 08/14/15 17:06		
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 (W5H0787-DUP1)		Source: 5H07056-01			Prepared: 08/14/15		Analyzed: 08/14/15 17:59		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane .....	0.697 .....	0.776		mg/l				11	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  
15H0482**

5407056

**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 [ ] cole@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 / 15H0482-02**

**Sampled: 08/05/15 08:05 PS Code:  
Water**

**WTX ID:**

**UCMR ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

08/07/15 08:20

8/7/15

*[Signature]*

*[Signature]*

8/7/15 8:30

8/7/15 1010 4.7°C

## Chain of Custody

## "Your Water and Wastewater Analysis Solution"

## "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**

AUGUST 2015				
DATE	TIME	METHANE HANDHELD		COMMENTS
8/1/2015				
8/2/2015				
8/3/2015	8:45 AM	CH <sub>4</sub> - 0%	Oxy- 20.9%	
8/4/2015	3:15 PM	CH <sub>4</sub> - 2%	Oxy- 20.4%	
8/5/2015	2:50 PM	CH <sub>4</sub> - 0%	Oxy- 20.9%	
8/6/2015	9:00 AM	CH <sub>4</sub> - 0%	Oxy- 20.9%	
8/7/2015	12:45 PM	CH <sub>4</sub> - 0%	Oxy- 20.5%	
8/8/2015				
8/9/2015				
8/10/2015	1:15 PM	CH <sub>4</sub> - 0%	Oxy- 20.8%	
8/11/2015	3:30 PM	CH <sub>4</sub> - 0%	Oxy- 20.8%	
8/12/2015	3:15 PM	CH <sub>4</sub> - 0%	Oxy- 20.8%	
8/13/2015	11:45 AM	CH <sub>4</sub> - 1%	Oxy- 20.6%	
8/14/2015				
8/15/2015				
8/16/2015				
8/17/2015	3:10 PM	CH <sub>4</sub> - 0%	Oxy- 20.4%	
8/18/2015	3:15 PM	CH <sub>4</sub> - 0%	Oxy- 20.9%	
8/19/2015	2:15 PM	CH <sub>4</sub> - 0%	Oxy- 20.9%	
8/20/2015	2:00 PM	CH <sub>4</sub> - 0%	Oxy- 20.9%	
8/21/2015	12:15 PM	CH <sub>4</sub> - 0%	Oxy- 20.9%	
8/22/2015				
8/23/2015				
8/24/2015	3:15 PM	CH <sub>4</sub> - 0%	Oxy- 20.8%	
8/25/2015	1:45 PM	CH <sub>4</sub> - 1%	Oxy- 20.8%	
8/26/2015	4:00 PM	CH <sub>4</sub> - 0%	Oxy- 20.8%	
8/27/2015	2:40 PM	CH <sub>4</sub> - 1%	Oxy- 20.8%	
8/28/2015				
8/29/2015				
8/30/2015				
8/31/2015	1:40 PM	CH <sub>4</sub> - 0%	Oxy- 20.6%	

ND- Non Detect  
CH<sub>4</sub>- Methane  
Oxy- Oxygen  
Weekend/Day Off/Holiday- Red

## **APPENDIX C**

### **NITRIFICATION MONITORING DATA SUMMARY**

**<sup>1</sup>NITRIFICATION MONITORING DATA SUMMARY REPORT**  
**CITY OF LOMITA, System No. 1910073**  
**Month, Year: August 2015**

#	<sup>2</sup> C	Sample I.D	Location	Sample Date	Collection Time	Temp	Combined Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite	<sup>3</sup> Z	Comments/Corrective Actions/Others
Units -->				MM/DD/YYYY	am/pm	°C	mg/L	mg/L	mg/L	mg/L	mg/L		
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	8/27/2015	0752Hrs.	26.6	0.81	0.31	0.29	0.04**	0.093	1	
2	D	S13-004	24632 S Moon Av	8/27/2015	0625Hrs.	25.8	0.57	0.23	0.18	0.05**	0.070	1	
3	D	S13-008	25417 Pennsylvania Av	8/27/2015	0600Hrs.	25.9	1.22	0.30	0.43	0.03**	0.090	1	
4	D	A	2052 Dawn St	8/27/2015	0722Hrs.	26.8	1.66	0.39	0.37	0.06**	0.004	1	
5	D		Reservoir	8/27/2015	1000Hrs.	26.0	3.82	0.68	0.96	0.29**	0.003	1	
6	D	13-1	1912 W. 259 <sup>th</sup> Pl	08/18/15	1340Hrs.	27.5	2.06	0.55	0.58	0.00	0.005	2	
7	D	13-2	26314 S Monte Vta.	08/18/15	1400Hrs.	27.0	2.02	0.54	0.55	0.00	0.006	3	
8	D	13-5	2500 PCH	08/19/15	0650Hrs.	20.0	2.11	0.10	0.64	0.00	0.005	2	

Notes: <sup>2</sup>C for Sample Code; <sup>3</sup>Z for Zone.

<sup>1</sup>This Report needs to be submitted to the Drinking Water Division of the State Water Resources Control Board by the 10<sup>th</sup> of the month following sampling.

**\*\*Was unable to pretreat samples with HACH Hardness Treatment Reagent Powder Pillow, currently unavailable. Free Ammonia Test could be affected by Total Hardness and Alkalinity.**