

CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

February 2015

CITY COUNCIL

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



CITY OF LOMITA

ADMINISTRATION

MICHAEL ROCK
CITY MANAGER

March 19, 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 February 1 through February 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 February 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

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.

Well Production and Operations

For the month of February 2015, the CWPF operated for approximately 28 days, providing blended water on a fill and draw cycle with the reservoir level fluctuating with system demand. The total production from Well No. 5 for the month was approximately 56.55 ac-ft (18,426,987 gallons) with a daily production of approximately 2.02 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 101.01 ac-ft (32,914,729 gallons) for the month with a combined daily production of approximately 3.61 ac-ft. The daily average flow from Well No. 5 was 748 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 56% Well water and 44% MWD water.

Operational Interruptions

There were no major operational interruptions during the month of February 2015. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruption is anticipated for the following month.

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.

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.

A. 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 and Manganese concentrations in the raw water (SP1) were below and above the MCL, respectively. 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.

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

Date, week of	SP 1, Well Raw Water Discharge							SP 2, Combined Pressure Filter Effluent			SP 3, 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
2/4/2015	178	300	91.8	50	10	15	A	A	A	500	ND	300	ND	50	5	15
2/11/2015											ND	300	ND	50	5	15
2/19/2015											ND	300	ND	50	5	15
2/25/2015											ND	300	ND	50	5	15

Notes: Monthly- Orange Weekly- Yellow
 (4/5/13) - CWPF open to distribution system
 A – Absent
 ND – Non Detect
 *Per the SWRCB Drinking Water "Chemicals and Contaminants in Drinking Water" Regulations

B. 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 the results.

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
2/4/2015	6.25	3.84	4.15	0.78	2.99	4
2/11/2015	8.70	4.00	5.76	0.76	3.29	4
2/19/2015	8.96	5.08	7.54	0.69	3.49	4
2/25/2015	5.60	5.44	6.16	0.66	3.41	4

C. 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.

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
2/4/2015	700	610	670	500-750	1	3			5	0.73
2/11/2015			700	500-750						0.34
2/18/2015			670	500-750						0.84
2/25/2015			730	500-750			290	180-250		0.80
Average			693							0.68

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

D. Total Dissolved Solids (TDS)

The sampling results indicate the TDS levels of the effluent blended water to be on average 693 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 700 mg/L and 610 mg/L, respectively.

E. Hardness

The sampling results for the month of February indicate the hardness levels of the blended water to be 290 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.

F. Dissolved Methane (in Water)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.68 mg/L.

G. 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 February 2015 in Appendix B.

Appendix A
Laboratory Results



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

March 3, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500292 Lomita Monthly SP1

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 04, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22826 - 713439

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

This report shall not be reproduced, except in full,
without the written consent of LA County ACWM Environmental Toxicology Bureau.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500292 Lomita Monthly SP1

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500292001	W13-005	W13-005 - 26112 Cypress St., (SP1)	Drinking Water	2/4/2015 10:55	2/4/2015 13:15

Collector: Edward Duvivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500292 Lomita Monthly SP1

Lab ID: E1500292001	Date Received: 2/4/2015 13:15	Matrix: Drinking Water
Sample ID: W13-005	Date Collected: 2/4/2015 10:55	
System Number:	Purpose:	
System Name:	Sample Type:	

Parameters	Results Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED								
Analysis Desc: EPA 200.8, Dissolved			Analytical Method: EPA 200.8, Dissolved					
Iron	178 ug/L	100		1	2/6/2015 11:09	RZ		240
Manganese	91.8 ug/L	20.0		1	2/6/2015 11:09	RZ		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	10 Unit	5.00		1	2/4/2015 10:15	LS		



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

February 6, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500295 Lomita Bacti

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 04, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22829 - 711798

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

This report shall not be reproduced, except in full,
without the written consent of LA County ACWM Environmental Toxicology Bureau.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of **Agricultural Commissioner/ Weights and Measures**

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500295 Lomita Bacti

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500295001	W13-005	W13-005 - 26112 Cypress St., (SP1)	Drinking Water	2/4/2015 10:55	2/4/2015 13:15

Collector: Brian



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500295 Lomita Bacti

Lab ID: E1500295001	Date Received: 2/4/2015 13:15	Matrix: Drinking Water
Sample ID: W13-005	Date Collected: 2/4/2015 10:55	
System Number: 1910073-003	Purpose: Routine	
System Name: Lomita Well Bacti/SP1	Sample Type: Source	

Parameters	Results	Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
------------	---------	-------	--------------	-----	----	----------	----	------	-----

MICROBIOLOGY

Analysis Desc: SM 9223 COLILERT 18	Analytical Method: SM 9223 COLILERT 18
------------------------------------	--

Fecal Coliform	ABSENT		1	2/4/2015 15:50	CG
Total Coliform	ABSENT		1	2/4/2015 15:50	CG

County of Los Angeles
Agricultural Commissioner/Weights and Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
11012 GARFIELD AVE., BLDG. B, SOUTH GATE, CA. 90280
TEL# (562)622-0437 FAX# (562)622-0440

BACTERIOLOGICAL TEST FOR DRINKING WATER

Purveyor: Public Work/Waterworks

Address: 900 S. Fremont Ave., Alhambra

System Name: Lomita Well Bacti / SP1

Contact Person / Phone#: (626)300-3306

System Number: 1910073-003

Collector: Enan Aguayo Profile# **2039**

(T) Sample Type	(P) Purpose
1-Source	A-Routine B-Recheck C-Special
2-Distribution System	D-Replacement E-Others

E1500295

Lab ID#	Smp ID#	Time Collection	Sampling Point	Cl ppm	T	P	Temp °C	Total Coliform/ Colilert ¹⁸	Fecal Coliform Colilert ¹⁸	HPC cfu/mL
-001	W13-005	10:55	26112 Cypress St. (Well Head) (SP1)	X	1	C	8.5	ABSENT	ABSENT	X

Set-Up Time: <u>15:50</u>	Meets Holding Time (24 hrs.): <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/>	Set-Up By: <u>cg</u>	Read Time: <u>9:50</u>	Read By: <u>cg</u>
---------------------------	---	----------------------	------------------------	--------------------

Reference: "Standard Methods" 20th ed., APHA, AWWA, AND WEF. Method 9223

Date Collected: 2-4-15 Date/Time Received: 02-04-15/ 13:15 By: K2
Date Started: 2-4-15 Date Completed: 2-5-15

Notification Req.: Yes ☐ No ☒ Name of person Notified: _____ Date _____/Time _____

Analyst: Cynthia G. 2/5/15 Date _____ Supervisor: gx 02/05/2015 Date _____



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

February 6, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500297 Lomita Monthly SP2: Bacti +HPC

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 04, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22831 - 712337

Page 1 of 5

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

This report shall not be reproduced, except in full,
without the written consent of LA County ACWM Environmental Toxicology Bureau.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of **Agricultural Commissioner/ Weights and Measures**

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500297 Lomita Monthly SP2: Bacti +HPC

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500297001	E13-005C	E13-005C - 26122 Cypress St., (SP2-Combined Pressure Eff.)	Drinking Water	2/4/2015 10:58	2/4/2015 13:15

Collector: Brian



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500297 Lomita Monthly SP2: Bacti +HPC

Lab ID: E1500297001	Date Received: 2/4/2015 13:15	Matrix: Drinking Water
Sample ID: E13-005C	Date Collected: 2/4/2015 10:58	
System Number: 19-073	Purpose: Special	
System Name: Lomita-Combined Effluent (SP2)	Sample Type: Source	

Parameters	Results	Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
MICROBIOLOGY									
Analysis Desc: Idexx Simplate	Analytical Method: Idexx Simplate								
Heterotrophic Plate Count	ND	MPN/100mL	2.00		1	2/4/2015 13:30	CG		500
Analysis Desc: SM 9223 COLILERT 18	Analytical Method: SM 9223 COLILERT 18								
Total Coliform	ABSENT				1	2/4/2015 15:50	CG		

County of Los Angeles
Agricultural Commissioner/Weights and Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
11012 GARFIELD AVE., BLDG. B, SOUTH GATE, CA. 90280
TEL# (562)622-0437 FAX# (562)622-0440

BACTERIOLOGICAL TEST FOR DRINKING WATER

Purveyor: Public Work/Waterworks

Address: 900 S. Fremont Ave., Alhambra

System Name: Lomita-Combined Effluent (SP2)

Contact Person / Phone#: (626)300-3306

System Number: _____

Collector: Brian Aguayo Profile# **2170**

(T) Sample Type	(P) Purpose
1-Source 2-Distribution System	A-Routine B-Recheck C-Special D-Replacement E-Others

E1500297

Simple Plate

Lab ID#	Smp ID#	Time Collection	Sampling Point	Cl ppm	T	P	Temp °C	Total Coliform/Colilert	Fecal Coliform Colilert	HPC cfu/mL
-001	E13-005C	10:58	Combined Pressure Effluent (SP2)		1	C	9.4	ABSENT		<2

Set-Up Time: <u>15:50</u>	Meets Holding Time (24 hrs.): <u>yes</u> <input checked="" type="checkbox"/> <u>no</u> <input type="checkbox"/>	Set-Up By: <u>cg</u>	Read Time: <u>9:50</u>	Read By: <u>cg</u>
---------------------------	---	----------------------	------------------------	--------------------

Reference: "Standard Methods" 20th ed., APHA, AWWA, AND WEF, Method 9223

Date Collected: 2-4-15 Date/Time Received: 02-04-15 / 13:15 By: KZ
Date Started: 2-4-15 Date Completed: 2-5-15
2-6-15 Simple Plate 9/4

Notification Req.: Yes ☐ No ☒ Name of person Notified: _____ Date _____ /Time _____

Analyst: Cynthia G. 2-5-15 Date _____ Supervisor: SL 02/05/2015 Date _____



County of Los Angeles
Agricultural Commissioner/Weights & Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
11012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

Page: 1 of 1**PROFILE# 2170**

CHAIN-OF-CUSTODY RECORD

[illegible]



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

March 3, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500291 Lomita Weekly SP3

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 04, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22825 - 713431

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

This report shall not be reproduced, except in full,
without the written consent of LA County ACWM Environmental Toxicology Bureau.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of **Agricultural Commissioner/ Weights and Measures**

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500291 Lomita Weekly SP3

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500291001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	2/4/2015 10:59	2/4/2015 13:15

Collector: Edward Duvivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500291 Lomita Weekly SP3

Lab ID: E1500291001	Date Received: 2/4/2015 13:15	Matrix: Drinking Water
Sample ID: E13-005A	Date Collected: 2/4/2015 10:59	
System Number: 1910073-006	Purpose: Routine	
System Name:	Sample Type: Source	

Parameters	Results Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED								
Analysis Desc: EPA 200.8, Dissolved			Analytical Method: EPA 200.8, Dissolved					
Iron	ND ug/L	100		1	2/6/2015 11:05	RZ		240
Manganese	ND ug/L	20.0		1	2/6/2015 11:05	RZ		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	5 Unit	5.00		1	2/4/2015 10:15	LS		

Page: of

County of Los Angeles
Agricultural Commissioner/Weights & Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
11102 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

Profile# 2201 – 1st & 2nd Week

CHAIN-OF-CUSTODY RECORD

[illegible]

517780



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

February 19, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500390 Lomita Weekly SP3

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 11, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22924 - 717003

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

This report shall not be reproduced, except in full,
without the written consent of LA County ACWM Environmental Toxicology Bureau.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of **Agricultural Commissioner/ Weights and Measures**

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500390 Lomita Weekly SP3

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500390001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	2/11/2015 11:30	2/11/2015 13:20

Collector: Edward DuVivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500390 Lomita Weekly SP3

Lab ID: **E1500390001** Date Received: 2/11/2015 13:20 Matrix: Drinking Water
Sample ID: **E13-005A** Date Collected: 2/11/2015 11:30
System Number: 1910073-006 Purpose: Routine
System Name: Sample Type: Source

Parameters	Results Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED								
Analysis Desc: EPA 200.8, Dissolved			Analytical Method: EPA 200.8, Dissolved					
Iron	ND ug/L	100		1	2/18/2015 11:27	GS		240
Manganese	ND ug/L	20.0		1	2/18/2015 11:27	GS		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	5 Unit	5.00		1	2/11/2015 16:05	LS		



County of Los Angeles
Agricultural Commissioner/Weights & Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
1111012 Garfield Avenue, Bldg B, South Gate, CA
Phone# (562)622-0437 Fax# (562)622-0440

Page: 1 of 1**Profile# 2201 – 1st & 2nd Week**

ENVIRONMENTAL TOXICOLOGY BUREAU
111012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

CHAIN-OF-CUSTODY RECORD

[illegible]

082213



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

March 2, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500461 SP3 RUSH

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, February 19, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22995 - 720425

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

This report shall not be reproduced, except in full,
without the written consent of LA County ACWM Environmental Toxicology Bureau.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500461 SP3 RUSH

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500461001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	2/19/2015 11:19	2/19/2015 13:05

Collector: Duvivier, Edward



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500461 SP3 RUSH

Lab ID:	E1500461001	Date Received:	2/19/2015 13:05	Matrix:	Drinking Water
Sample ID:	E13-005A	Date Collected:	2/19/2015 11:19		
System Number:	1910073-006	Purpose:	Routine		
System Name:		Sample Type:	Source		

Parameters	Results Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED								
Analysis Desc: EPA 200.8, Dissolved			Analytical Method: EPA 200.8, Dissolved					
Iron	ND ug/L	100		1	2/24/2015 11:36	GS		240
Manganese	ND ug/L	20.0		1	2/24/2015 11:36	GS		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	5 Unit	5.00		1	2/20/2015 10:10	LS		

Page: of

County of Los Angeles
Agricultural Commissioner/Weights & Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
11012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

Profile# 2201 - 3rd, 4th & 5th Week - RUSH

CHAIN-OF-CUSTODY RECORD

[illegible]



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

March 5, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500512 Lomita Weekly SP3 RUSH

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 25, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 23046 - 722010

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

This report shall not be reproduced, except in full,
without the written consent of LA County ACWM Environmental Toxicology Bureau.



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of **Agricultural Commissioner/ Weights and Measures**

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500512 Lomita Weekly SP3 RUSH

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500512001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	2/25/2015 10:34	2/25/2015 11:55

Collector: Jeff Wilson



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500512 Lomita Weekly SP3 RUSH

Lab ID: E1500512001	Date Received: 2/25/2015 11:55	Matrix: Drinking Water
Sample ID: E13-005A	Date Collected: 2/25/2015 10:34	
System Number: 1910073-006	Purpose: Routine	
System Name:	Sample Type: Source	

Parameters	Results Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED								
Analysis Desc: EPA 200.8, Dissolved			Analytical Method: EPA 200.8, Dissolved					
Iron	ND ug/L	100		1	3/3/2015 11:51	GS		240
Manganese	ND ug/L	20.0		1	3/3/2015 11:51	GS		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	5 Unit	5.00		1	2/25/2015 14:43	KZ		



County of Los Angeles
Agricultural Commissioner/Weights & Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
11012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

**Profile# 2201 - 3rd, 4th & 5th Week - RUSH**

11012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

CHAIN-OF-CUSTODY RECORD

[illegible]

Clinical Laboratory of San Bernardino, Inc.



13 February 2015

Clinical Lab No.: 15B0408

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

Project Name: Standard Analysis
Sub Project: Cypress Water Treatment Plant Monthly Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 02/04/15. 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	Project: Standard Analysis	Work Order: 15B0408
24373 Walnut Avenue	Sub Project: Cypress Water Treatment Plant Monthly Analysis	Received: 02/04/15 16:30
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 02/13/15

Raw Water Site #1 **15B0408-01 (Water)** **Sample Date:** 02/04/15 12:16 **Sampler:** Edward Duvivier

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

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **700** mg/L 5.0 1000 02/09/15 02/11/15 1506622

Reservoir Effluent Site #5 **15B0408-02 (Water)** **Sample Date:** 02/04/15 12:21 **Sampler:** Edward Duvivier

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

General Physical Analyses

Apparent Color SM 2120B ND Color Units 3.0 15 02/04/15 02/04/15 1506548

Odor Threshold EPA 140.1M **1** TON 1 3 02/04/15 02/04/15 1506548

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **670** mg/L 5.0 1000 02/09/15 02/11/15 1506622

Zone #2 Site #6 **15B0408-03 (Water)** **Sample Date:** 02/04/15 12:14 **Sampler:** Edward DuVivier

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

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **610** mg/L 5.0 1000 02/09/15 02/11/15 1506622

ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15B0408

Report Date: 02/13/15 13:49

Received Date: 02/06/15 12:00

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 2/6/2015 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 Sample ID: 5B06013-01	Sample ID: Raw Water Site #1 / 15B0408-01	Matrix: Water
Sampled by: Client	Sampled: 02/04/15 12:16	

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	5.0		0.050	mg/l	5	RSK-175	2/12/15	2/12/15 15:06	W5B0689	

Lab Sample ID: 5B06013-02	Sample ID: Reservoir Effluent Site #5 / 15B0408-02	Matrix: Water
Sampled by: Client	Sampled: 02/04/15 12:21	

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.73		0.010	mg/l	1	RSK-175	2/12/15	2/12/15 15:06	W5B0689	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5B0689 - RSK-175

Blank (W5B0689-BLK1)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5B0689-BS1)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00586		mg/l	0.00792	74	50-150		
LCS (W5B0689-BS2)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.219		mg/l	0.198	110	85-115		
Calibration Check (W5B0689-CCV1)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.205		mg/l	0.198	104	0-200		



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 # 04229CA



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

15B0408

5B060B

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 ☐ glenney@clinical-lab.com ☒ styles@clinical-lab.com

California EDT transfer those samples with PS codes provided ☐ Yes ☒ No

Transfer File requested; log in with Element ID only ☐ Yes ☐ No

UCMR 3 CDX Transfer ☐ Yes ☒ No

Turn Around Time ☐ 10 Days ☒ 5 Days ☐ Other ___ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Raw Water Site #1 / 15B0408-01

Sampled: 02/04/15 12:16 PS Code: 1910073-003
Water

WTX ID:

UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

Sample ID: Reservoir Effluent Site #5 / 15B0408-02

Sampled: 02/04/15 12:21 PS Code:
Water

WTX ID:

UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

Released By BSJ shry Date / Time 2/5/15 16:45

Received By mcclad

Date / Time 2/16/15 8:50

Released By mcclad Date / Time 2/16/15 12:00

Received By Sanborn

Date / Time 2/16/15 12:00 43°C

⑦

15B0408

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

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		CDHP Compliance			
Sub Project		Express Water Treatment Plant		YES			
Comments		Monthly Analysis (compliance)		ELAP #			
Sampled by		Edward D. V. ...		1088			
Date	Time	Sample Identification	Matrix	Preserv	Free Chlorine	Total Chlorine	Comments
2/4/15	1216	Raw Water Site #1 (2)	GW	HCL	W1		
2/4/15	1215	Raw Water Site #1 (1)	GW	NA	W1		
2/4/15	1222	Reservoir Effluent Site #5 (2) DW	DW	HCL	D1		
2/4/15	1220	Reservoir Effluent Site #5 (1) DW	DW	NA	D1		
2/4/15	1221	Reservoir Effluent Site #5 (4) DW	DW	NA	D1		
2/4/15	1214	Zone 2 Site #6 (1) DW	DW	NA	D1		

Preservatives: (1) Na₂S₂O₃ (2) HCl (3) HNO₃ (4) NH₄Cl
 (5) H₂SO₄ (6) Na₂SO₃ (7) Cold (8) Other:

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, W-Well D-Dist.

Type: 1-Routine, 2-Repeat, 3-Replacement, 4-Special

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Edward D. V. ... City of Lomita	2/4/2015 1250		J. ... / CLS
	J. ... / CLS	2-4-15 / 4:30		J. ... / CLS

Comments: _____

Samples received: () On ice () Intact () Custody seals

Temp 16.8 () F (X) C

Shipped Via _____

|| Fed X || Golden State || UPS || Client || Other

Page 1 of 1

Clinical Laboratory of San Bernardino, Inc.



20 February 2015

Clinical Lab No.: 15B0976

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 02/11/15. 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', is written over a light blue rectangular background.

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 Comp. Analysis
Project Manager: Mark Andersen

Work Order: 15B0976
Received: 02/11/15 16:00
Reported: 02/20/15

Reservoir Effluent Site #5 **15B0976-01 (Water)** **Sample Date:** 02/11/15 11:48 **Sampler:** Edward Duvivier

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

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **700** mg/L 5.0 1000 02/13/15 02/16/15 1507535

ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15B0976

Report Date: 02/20/15 08:00

Received Date: 02/12/15 12:55

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 2/12/2015 with the Chain of Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5B12048-01		Sample ID: Reservoir Effluent Site #5 / 15B0976-01							Matrix: Water	
Sampled by: Client		Sampled: 02/11/15 11:48								
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.34		0.010	mg/l	1	RSK-175	2/12/15	2/12/15 15:06	W5B0689	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5B0689 - RSK-175

Blank (W5B0689-BLK1)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5B0689-BS1)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00586		mg/l	0.00792	74	50-150		
LCS (W5B0689-BS2)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.219		mg/l	0.198	110	85-115		
Calibration Check (W5B0689-CCV1)					Prepared: 02/12/15		Analyzed: 02/12/15 15:06		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.205		mg/l	0.198	104	0-200		



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 # 04229CA



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

③

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

[illegible]

Clinical Laboratory of San Bernardino, Inc.



27 February 2015

Clinical Lab No.: 15B1456

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

Project Name: Standard Analysis
Sub Project: Cypress Water Treatment Plant Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 02/18/15 . 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: Cypress Water Treatment Plant Compliance
Project Manager: Mark Andersen

Work Order: 15B1456
Received: 02/18/15 15:00
Reported: 02/27/15

Reservoir Effluent Site #5 **15B1456-01 (Water)** **Sample Date:** 02/18/15 11:35 **Sampler:** Edward Duvivier

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

General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	670	mg/L	5.0	1000	02/19/15	02/23/15	1508231	
-------------------------------------	----------	------------	------	-----	------	----------	----------	---------	--

ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15B1456

Report Date: 03/10/15 10:31

Received Date: 02/19/15 12:30

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 2/19/2015 with the Chain of Custody document. The samples were received in good condition, at 5.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5B19036-01

Sample ID: Reservoir Effluent Site #5 / 15B1456-01

Matrix: Water

Sampled by: Client

Sampled: 02/18/15 11:35

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.84		0.010	mg/l	1	RSK-175	2/20/15	2/20/15 18:22	W5B1148	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5B1148 - RSK-175

Blank (W5B1148-BLK1)					Prepared: 02/20/15		Analyzed: 02/20/15 17:51		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5B1148-BS1)					Prepared: 02/20/15		Analyzed: 02/20/15 18:01		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00514		mg/l	0.00792	65	50-150		
LCS (W5B1148-BS2)					Prepared: 02/20/15		Analyzed: 02/20/15 18:12		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.174		mg/l	0.198	88	85-115		
Calibration Check (W5B1148-CCV1)					Prepared: 02/20/15		Analyzed: 02/20/15 17:39		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.203		mg/l	0.198	103	0-200		



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 # 04229CA



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

15B1456

5B19030

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:

Week 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 [] glemmey@clinical-lab.com [x] styles@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 [] No

UCMR 3 CDX Transfer [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other ___ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Reservoir Effluent Site #5 / 15B1456-01

Sampled: 02/18/15 11:35 PS Code:
Water

WTX ID:

UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Clinical Laboratory of San Bernardino, Inc.



06 March 2015

Clinical Lab No.: 15B1954

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 02/25/15 . 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 'Robin Glenney For Stu Styles'.

Robin Glenney For 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: 15B1954
Received: 02/25/15 16:30
Reported: 03/06/15

Reservoir Effluent Site #5 **15B1954-01 (Water)** **Sample Date:** 02/25/15 10:41 **Sampler:** Edward Duvivier

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

General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	730	mg/L	5.0	1000	02/26/15	03/04/15	1509461	
ND	Analyte NOT DETECTED at or above the reporting limit								



Certificate of Analysis

Report Date: 03/04/15 14:26

Received Date: 02/26/15 11:20

Turnaround Time: 5 workdays

Project: 15B1954

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 2/26/2015 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 Sample ID: 5B26016-01		Sample ID: Reservoir Effluent Site # / 15B1954-01							Matrix: Water	
Sampled by: Client		Sampled: 02/25/15 10:41								
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.80		0.010	mg/l	1	RSK-175	2/27/15	2/27/15 15:54	W5B1455	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5B1455 - RSK-175

Blank (W5B1455-BLK1)					Prepared: 02/27/15		Analyzed: 02/27/15 15:22		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5B1455-BS1)					Prepared: 02/27/15		Analyzed: 02/27/15 15:33		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.0106		mg/l	0.00792	134	50-150		
LCS (W5B1455-BS2)					Prepared: 02/27/15		Analyzed: 02/27/15 15:43		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.226		mg/l	0.198	114	85-115		
Calibration Check (W5B1455-CCV1)					Prepared: 02/27/15		Analyzed: 02/27/15 15:11		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.194		mg/l	0.198	98	85-115		



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 # 04229CA



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
15B1954

5B26016

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 [] glenney@clinical-lab.com [x] styles@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 [] No
UCMR 3 CDX Transfer [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other ___ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Reservoir Effluent Site #5 / 15B1954-01

Sampled: 02/25/15 10:41 PS Code:
Water

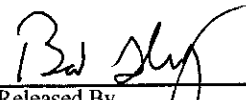


WTX ID:
UCMR ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

Released By	Date / Time	Received By	Date / Time
	02/26/15 07:40		2/26/15 920
Released By	Date / Time	Received By	Date / Time
	2/26/15 11:20	Jamahman Brooks	2/26/15 1120 2.6r
Released By	Date / Time	Received By	Date / Time

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		CWPF Weekly Compliance Analysis		YES											
Comments				ELAP #											
Sampled by		Edward Duvier		1088											
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine							Comments / P.S. Codes	
		Raw Water Site #1		DW	1W	HCL									
		Raw Water Site #1		DW	1W	N/A									
2/25/15	1041	Reservoir Effluent Site #5		DW	1W	HCL									
		Reservoir Effluent Site #5		DW	1W	N/A									
2/25/15	1040	Reservoir Effluent Site #5		DW	1W	N/A									
		Zone #2 Site #6		DW	1W	N/A									
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (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.	
Requested By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company							
Edward Duvier		City of Lomita		2/25/15 12:20		J. Guerrero		J. Guerrero / CSB							
Comments		J. Guerrero / CSB		2-25-15 / 4:30		Samples received		() Custody seals							
						Temp		() F () C							
Shipped Via		Fed X		Golden State		UPS		Client		Other		Page 1 of 1			

Clinical Laboratory of San Bernardino, Inc.



05 March 2015

Clinical Lab No.: 15B1956

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 02/25/15 . 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', is written over a light blue rectangular background.

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: 15B1956
Received: 02/25/15 16:30
Reported: 03/05/15

Reservoir Effluent Site #5 15B1956-01 (Water) Sample Date: 02/25/15 10:40 Sampler: Edward Duvivier

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

General Chemical Analyses

Hardness, Total (as CaCO ₃)	Calculated	290	mg/L	6.6		02/27/15	02/27/15	[CALC]	
Ortho-Phosphate (as P)	HACH 8048	0.16	mg/L	0.0067		02/25/15	02/25/15	1509348	
Phosphorus (Total as P)	HACH 8190	0.46	mg/L	0.0067		02/26/15	02/26/15	1509388	

Metals

Calcium (Ca)	EPA 200.7	75	mg/L	1.0		02/27/15	02/27/15	1509513	
Magnesium (Mg)	EPA 200.7	26	mg/L	1.0		02/27/15	02/27/15	1509513	

ND Analyte NOT DETECTED at or above the reporting limit

"Your Water and Wastewater Analysis Solution"

14.7c

Appendix B

Methane Monitoring Log



CITY OF LOMITA
CPWF HANDHELD METHANE LOG READINGS

February 2015			
Date	Time	Methane Handheld	Comments
2/1/2015			Sunday
2/2/2015	3:00 PM	CH4-0% Oxy-20.6%	
2/3/2015		CH4-0% Oxy-20.5%	
2/4/2015	3:00 PM	CH4-0% Oxy-20.3%	
2/5/2015	2:55 PM	CH4-1% Oxy-20.1%	
2/6/2015	12:45 PM	CH4-1% Oxy-20.1%	
2/7/2015			Saturday
2/8/2015			Sunday
2/9/2015	2:45 PM	CH4-0% Oxy-20.5%	
2/10/2015	3:30 PM	CH4-0% Oxy-20.6%	
2/11/2015	12:45 PM	CH4-0% Oxy-20.9%	
2/12/2015			Holiday
2/13/2015			Friday - City Hall Closed
2/14/2015			Saturday
2/15/2015			Sunday
2/16/2015			Holiday
2/17/2015	3:30 PM	CH4-0% Oxy-20.9%	
2/18/2015	3:15 PM	CH4-0% Oxy-20.9%	
2/19/2015	3:45 PM	CH4-0% Oxy-20.6%	
2/20/2015	2:15 PM	CH4-0% Oxy-20.7%	
2/21/2015			Saturday
2/22/2015			Sunday
2/23/2015	12:30	CH4-0% Oxy-20.6%	
2/24/2015	3:00 PM	CH4-0% Oxy-21.3%	
2/25/2015	3:30 PM	CH4-0% Oxy-20.9%	
2/26/2015	12:15 PM	CH4-1% Oxy-20.9%	
2/27/2015			Friday - City Hall Closed
2/28/2015			Saturday

ND- Non Detect
 CH4- Methane
 Oxy-Oxygen
 Weekend/Day OFF/Holiday- Red