CITY OF LOMITA

Cypress Water Production Facility Monthly Status Report

May 2015

CITY OF LOMITA

June 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 May 1 through May 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 May 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 May 2015, the CWPF operated for approximately 25 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 48.58 ac-ft (15,830,051 gallons) with a daily production of approximately 1.94 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 96.70 ac-ft (31,509,042 gallons) for the month with a combined daily production of approximately 3.87 ac-ft.

The daily average flow from Well No. 5 was 475 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 50% Well water and 50% MWD water.

Operational Interruptions

During the first six (6) days of May, the CWPF was isolated to monitor pressures within the distribution system from using only MWD water as the primary source. 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 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.

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

Date, week of	SP1, Well Raw Water Discharge							SP2, Combined Pressure Filter Effluent			SP3, After chloramination static mixer; reservoir entry					
	Iron, ug/L	*MCL = 3 00 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
5/6/2015	300	300	100	50	10	15		A	A	500	ND	300	ND	50	ND	15
5/13/2015											ND	300	ND	50	ND	15
5/20/2015											ND	300	ND	50	**ND****	15
5/27/2015							A				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
**** Color sample missed during week of 5/20/15. Additional sample taken week of 5/27/15 to make up for this, see report 15E2068-03.**

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 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
5/6/2015	9.08	10.00	10.56	0.72	3.48	4
5/13/2015	8.91	10.16	10.24	0.56	3.90	4
5/20/2015	11.38	10.14	11.58	0.75	3.79	4
5/27/2015	11.20	9.78	10.21	0.74	3.82	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
5/6/2015	690	640	690	500-750	1	3			5.5	0.37
5/13/2015			700	500-750			290	180-250		0.61
5/20/2015			720	500-750						0.55
5/27/2015			690	500-750						0.59
Average			**700**							**0.53**

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 700 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 690 mg/L and 640 mg/L, respectively.

E. Hardness

The sampling results for the month of May 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 0.53 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 May 2015 in Appendix B.

H. Synthetic Organic Chemicals (SOCs)

During the month of May 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.

Appendix A

Laboratory Results

Clinical Laboratory of San Bernardino, Inc.

15 May 2015

Clinical Lab No.: 15E0466

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 05/06/15 . 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

Lomita, City of	Project: Standard Analysis	Work Order: 15E0466
24373 Walnut Avenue	Sub Project: CWPF Weekly Compliance Analysis	Received: 05/06/15 17:00
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 05/15/15

Raw Water Site #1 **15E0466-01 (Water)** **Sample Date:** 05/06/15 12:51 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Free (Field)	Field	0		N/A	mg/L	05/06/15	05/06/15	1519551	
Cl Res Total (Field)	Field	0		N/A	mg/L	05/06/15	05/06/15	1519463	
General Physical Analyses									
Apparent Color	SM 2120B	**10.0**	3.0	15	Color Units	05/06/15	05/06/15	1519538	
Odor Threshold	EPA 140.1M	**2**	1	3	TON	05/06/15	05/06/15	1519538	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**690**	5.0	1000	mg/L	05/07/15	05/11/15	1519432	
Metals									
Iron (Fe)	EPA 200.7	**300**	100	300	ug/L	05/12/15	05/12/15	1520099	
Manganese (Mn)	EPA 200.7	**100**	20	50	ug/L	05/12/15	05/12/15	1520099	

Filter Effluent Site (Chloramine) #3 **15E0466-02 (Water)** **Sample Date:** 05/06/15 13:36 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**5.44**		N/A	mg/L	05/06/15	05/06/15	1519463	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	05/06/15	05/06/15	1519538	
Odor Threshold	EPA 140.1M	**1**	1	3	TON	05/06/15	05/06/15	1519538	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/12/15	05/12/15	1520099	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/12/15	05/12/15	1520099	

Filter Effluent (Free Chlorine) Site #2 **15E0466-03 (Water)** **Sample Date:** 05/06/15 12:28 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Free (Field)	Field	**9.6**		N/A	mg/L	05/06/15	05/06/15	1519551	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	05/06/15	05/07/15	1519506	
E. Coli	SM 9223	A		N/A	P/A	05/06/15	05/07/15	1519506	
Plate Count	SM9215B	ND	1	500	CFU/ml	05/06/15	05/08/15	1519599	

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 15E0466
Received: 05/06/15 17:00
Reported: 05/15/15

Reservoir Effluent Site #5 **15E0466-04 (Water)** **Sample Date:** 05/06/15 12:42 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**4.06**		N/A	mg/L	05/06/15	05/06/15	1519463	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	05/06/15	05/06/15	1519538	
Odor Threshold	EPA 140.1M	**1**	1	3	TON	05/06/15	05/06/15	1519538	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**690**	5.0	1000	mg/L	05/07/15	05/11/15	1519432	

Zone #2 Site #6 **15E0466-05 (Water)** **Sample Date:** 05/06/15 12:30 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**640**	5.0	1000	mg/L	05/07/15	05/11/15	1519432	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 15E0466
Report Date: 05/15/2015
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05		Station No.: 1910073-003			Sampled: 150506 12:51
COLOR	Result: 10.0	Units: UNITS	Entry No.: 00081	Analyzed: 150506	
ODOR THRESHOLD @ 60 C	Result: 2	Units: TON	Entry No.: 00086	Analyzed: 150506	
IRON	Result: 300	Units: UG/L	Entry No.: 01045	Analyzed: 150512	
MANGANESE	Result: 100	Units: UG/L	Entry No.: 01055	Analyzed: 150512	
TOTAL DISSOLVED SOLIDS	Result: 690	Units: MG/L	Entry No.: 70300	Analyzed: 150511	
MWD CONNECTION WB-8A & WB-8B/TREATED		Station No.: 1910073-005			Sampled: 150506 12:30
TOTAL DISSOLVED SOLIDS	Result: 640	Units: MG/L	Entry No.: 70300	Analyzed: 150511	
WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-006			Sampled: 150506 13:36
COLOR	Result: ND	Units: UNITS	Entry No.: 00081	Analyzed: 150506	
ODOR THRESHOLD @ 60 C	Result: 1	Units: TON	Entry No.: 00086	Analyzed: 150506	
IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 150512	
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 150512	

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Certificate of Analysis

Report Date: 05/14/15 19:50
Received Date: 05/08/15 10:00
Turnaround Time: 5 workdays

Project: 15E0466

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 5/8/2015 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5E08043-01 **Sample ID: Raw Water Site #1/ 15E0466-01** **Matrix:** Water
Sampled by: Client **Sampled: 05/06/15 12:51**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**5.5**		0.20	mg/l	20	RSK-175	5/13/15	5/13/15 11:14	W5E0622	

Lab ID: 5E08043-02 **Sample ID: Reservoir Effluent Site #5/ 15E0466-04** **Matrix:** Water
Sampled by: Client **Sampled: 05/06/15 12:42**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**0.37**		0.010	mg/l	1	RSK-175	5/13/15	5/13/15 11:25	W5E0622	

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5E0622 - RSK-175

Blank (W5E0622-BLK1) — **Prepared: 05/13/15 Analyzed: 05/13/15 11:04**

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

LCS (W5E0622-BS1) — **Prepared: 05/13/15 Analyzed: 05/13/15 10:53**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.209		mg/l	0.198	105	85-115		

Calibration Check (W5E0622-CCV1) — **Prepared: 05/13/15 Analyzed: 05/13/15 10:42**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00686		mg/l	0.00792	87	50-150		

Calibration Check (W5E0622-CCV2) — **Prepared: 05/13/15 Analyzed: 05/13/15 10:21**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.209		mg/l	0.198	106	85-115		

Duplicate (W5E0622-DUP1) — **Source: 5E08043-02** — **Prepared: 05/13/15 Analyzed: 05/13/15 11:36**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.373	0.398		mg/l				6	20

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

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
ORELAP #4047-002

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

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15E0466 5E08043

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 / 15E0466-01	**Sampled: 05/06/15 12:51 PS Code: Water** **WTX ID:** **UCMR ID:**
Methane RSK175	Report in mg/L
Containers Supplied:	
40mL Amber Vial w/ Na2S	40mL Amber Vial w/ Na2S
Sample ID: Reservoir Effluent Site #5 / 15E0466-04	**Sampled: 05/06/15 12:42 PS Code: Water** **WTX ID:** **UCMR ID:**
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B)	40ml Amber Vial (C)

Released By	Date / Time	Received By	Date / Time
BJ Shy	05/08/15 07:50	M. Cloud	5/8/15 9:30
M. Cloud	5/8/15 10:00	Jamelmer	5/8/15 1000 2.8°

1/3/18

15E04466

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717	*Destination Laboratory*	
Phone #	(310) 325-9830	[X] Clinical Laboratory	
Fax #	(310) 325-3627	*CDWR Compliance*	
Project	*Standard Analysis*	*YES*	
Sub Project	*CWPF Weekly ComplianceAnalysis*	ELAP #	
Comments		**1088**	
Sampled by	Edward DuVivier		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes
5-6-15	1251	(2) Raw Water Site #1 GW	~~DW~~	1W	HCL	0 mg Total							X		W13-005
5-6-15	1250	(1) Raw Water Site #1 GW	~~DW~~	1W	N/A	0 mg/L Free	X	X	X						W13-005
5-6-15	1249	(1) Raw Water Site #1 GW	~~DW~~	1W	N/A	—						X			
5-6-15	13:36	(2) Filter Effluent Site (Chloramine) #3	DW	1W	N/A	5.44 Total	X	X				X			E13-005A
5-6-15	1228	Filter Effluent (free chlorine) #2	DW	1W	1,7	9.6 Free									Total coliform / HPC / X BAC-T
—	—														
—	—														
5-6-15	1241	(1) Reservoir Effluent Site #5	DW	1W	N/A	4.06			X						
5-6-15	1242	(2) Reservoir Effluent Site #5	DW	1W	HCL	4.06							X		
5-6-15	1240	(1) Reservoir Effluent Site #5	DW	1D	N/A	4.06						X			
5-6-15	1230	(1) Zone #2 Site #6	DW	~~1W~~ 1D	N/A	—			X						

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO_3 (4) NH_4Cl (5) H_2SO_4 (6) Na_2SO_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.

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*	*Received By (Sign)*	*Print Name / Company*
	Edward DuVivier	5-6-15 14:00		J. Lucero / CLSB
	City of Lomita	5-6-15 / 5:00		
	J. Lucero / CLSB			

Comments:

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

Temp 17.5 ( ) F (X) C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other* _____

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

26 May 2015

Clinical Lab No.: 15E1049

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 05/13/15 . Samples were received within temperature range, in correct containers and preservation.

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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: 15E1049
24373 Walnut Avenue	Sub Project: CWPF Weekly Compliance Analysis	Received: 05/13/15 15:30
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 05/26/15

Filter Effluent Site (Chloramine) #3 **15E1049-01 (Water)** **Sample Date:** 05/13/15 8:49 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	05/13/15	05/13/15	1520499	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/19/15	05/19/15	1521033	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/19/15	05/19/15	1521033	

Reservoir Effluent Site #5 **15E1049-02 (Water)** **Sample Date:** 05/13/15 8:51 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**700**	5.0	1000	mg/L	05/14/15	05/15/15	1520436	

ND Analyte NOT DETECTED at or above the reporting limit

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 15E1049
Report Date: 05/26/2015
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 150513 08:49

COLOR	Result: ND	Units: UNITS	Entry No.: 00081	Analyzed: 150513
IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 150519
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 150519

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Certificate of Analysis

Report Date: 05/18/15 07:53
Received Date: 05/14/15 13:00
Turnaround Time: 5 workdays

Project: 15E1049

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 5/14/2015 with the Chain of Custody document. The samples were received in good condition, at 4.6 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5E14039-01 **Sample ID: Reservoir Effluent Site #5 / 15E1049-02** **Matrix:** Water
Sampled by: Client **Sampled: 05/13/15 08:51**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**0.61**		0.010	mg/l	1	RSK-175	5/15/15	5/15/15 11:06	W5E0837	

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Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5E0837 - RSK-175

Blank (W5E0837-BLK1) — **Prepared: 05/15/15 Analyzed: 05/15/15 10:55**

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

LCS (W5E0837-BS1) — **Prepared: 05/15/15 Analyzed: 05/15/15 10:44**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.224		mg/l	0.198	113	85-115		

Calibration Check (W5E0837-CCV1) — **Prepared: 05/15/15 Analyzed: 05/15/15 10:34**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00658		mg/l	0.00792	83	50-150		

Calibration Check (W5E0837-CCV2) — **Prepared: 05/15/15 Analyzed: 05/15/15 10:12**

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

Duplicate (W5E0837-DUP1) — **Source: 5E14039-01** — **Prepared: 05/15/15 Analyzed: 05/15/15 11:17**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.606	0.660		mg/l				9	20

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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

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www.wecklabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15E1049 5E14039

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: Reservoir Effluent Site #5 / 15E1049-02 **Sampled: 05/13/15 08:51 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
05/14/15 07:50		5-14-15 / 10:30	
Released By	Date / Time	Received By	Date / Time
5-14-15 / 1:00		5/14/15 1300 4.6°	

15E1049 0113

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

Client	*City of Lomita*	**System Number**				**Analysis Requested**															
Address	24373 Walnut Avenue	**1910073**																			
	Lomita, CA 91717																				
Phone #	(310) 325-9830	*Destination Laboratory*																			
Fax #	(310) 325-3627	[X] Clinical Laboratory																			
Project	*Standard Analysis*	*CDWR Compliance*																			
Sub Project	*CWPF Weekly ComplianceAnalysis*	*YES*																			
Comments		**ELAP #**																			
Sampled by	Edward DeVivier	**1088**																			
Date	**Time**	**Sample Idenitification**	**Matrix**	**Type**	**Preserv**	**Total Chlorine**															**Comments / P.S. Codes**
		Raw Water Site #1	DW	1W	HCL																W13-005
		Raw Water Site #1	DW	1W	N/A																W13-005
5-13-15	0849	Filter Effluent Site (Chloramine) #3 (?)	DW	1W	N/A		X	X				X									E13-005A
5-13-15	0850	Reservoir Effluent Site #5 (1)	DW	1W	N/A				X												
5-13-15	0851	Reservoir Effluent Site #5 (2)	DW	1W	HCL								X								
		Zone #2 Site #6	DW	1W	N/A																

Preservatives: (1) $Na_2S_2O_3$ (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, 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 DeVivier	5-13-15 / 11:00		J. Lucero / CSB
	City of Lomita			
	J. Lucero / CSB	5-13-15 / 3:30		

Comments:

Samples received: (X) On ice ( ) Intact ( ) Custody seals
Temp 15.8 ( ) F (X) C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other*_____ *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

22 May 2015

Clinical Lab No.: 15E1050

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 05/13/15 . 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: 15E1050
24373 Walnut Avenue	Sub Project: CWPF Weekly Non-Comp Analysis	Received: 05/13/15 15:30
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 05/22/15

Reservoir Effluent Site #5 **15E1050-01 (Water)** **Sample Date:** 05/13/15 8:50 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**290**	6.6	N/A	mg/L	05/14/15	05/14/15	[CALC]	
Ortho-Phosphate (as P)	HACH 8048	**0.18**	0.0067	N/A	mg/L	05/13/15	05/13/15	1520373	
Phosphorus (Total as P)	HACH 8190	**0.57**	0.0067	N/A	mg/L	05/21/15	05/21/15	1521353	
Metals									
Calcium (Ca)	EPA 200.7	**77**	1.0	N/A	mg/L	05/14/15	05/14/15	1520415	
Magnesium (Mg)	EPA 200.7	**24**	1.0	N/A	mg/L	05/14/15	05/14/15	1520415	

ND Analyte NOT DETECTED at or above the reporting limit

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Shared plastic Bottle

15E1050

Ø1Ø11

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

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 Non – ComplianceAnalysis*	No ELAP #	
Comments		**1088**	
Sampled by	Edward DuVivier		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	Total Alkalinity	Total Hardness (as CaCo3)	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes
		Raw Water Site #1	DW	1W	HCL										
		Raw Water Site #1	DW	1W	N/A										
		Reservoir Effluent Site #5	DW	1W	HCL										
5-13-15	0850	Reservoir Effluent Site #5 (1)	DW	1W	N/A			X		X	X				
		Reservoir Effluent Site #5	DW	1W	N/A										
		Zone #2 Site #6	DW	1W	N/A										

Preservatives: (1) $Na_2S_2O_3$ (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, 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 DuVivier	Edward DuVivier	5-13-15 / 11:00		J. Lucero / CLSB
	City of Lomita	5.13.15 / 3:30		
Comments:	J. Lucero / CLSB		Samples received: (X) On ice ( ) Intact ( ) Custody seals Temp 15.8 ( ) F (X) C	

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other* _____ *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

02 June 2015 Clinical Lab No.: 15E1614

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 05/20/15 . 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

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 15E1614
Received: 05/20/15 15:30
Reported: 06/02/15

Filter Effluent Site (Chloramine) #3 **15E1614-01 (Water)** **Sample Date:** 05/20/15 11:02 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/22/15	05/22/15	1521494	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/22/15	05/22/15	1521494	

Reservoir Effluent Site #5 **15E1614-02 (Water)** **Sample Date:** 05/20/15 11:05 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**720**	5.0	1000	mg/L	05/21/15	05/26/15	1521372	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 15E1614
Report Date: 06/02/2015
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 150520 11:02

IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 150522
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 150522

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Certificate of Analysis

Report Date: 05/27/15 14:47
Received Date: 05/21/15 13:25
Turnaround Time: 5 workdays

Project: 15E1614

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 5/21/2015 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 ID: 5E21034-01 **Sample ID: Reservoir Effluent Site #5 / 15E1614-02** **Matrix:** Water
Sampled by: Client **Sampled: 05/20/15 11:05**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**0.55**		0.010	mg/l	1	RSK-175	5/26/15	5/26/15 16:49	W5E1425	

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Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5E1425 - RSK-175

Blank (W5E1425-BLK1) — **Prepared: 05/26/15 Analyzed: 05/26/15 16:38**

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

LCS (W5E1425-BS1) — **Prepared: 05/26/15 Analyzed: 05/26/15 16:28**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.207		mg/l	0.198	104	85-115		

Calibration Check (W5E1425-CCV1) — **Prepared: 05/26/15 Analyzed: 05/26/15 16:17**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00580		mg/l	0.00792	73	50-150		

Calibration Check (W5E1425-CCV2) — **Prepared: 05/26/15 Analyzed: 05/26/15 15:56**

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		

Duplicate (W5E1425-DUP1) — **Source: 5E21034-01** — **Prepared: 05/26/15 Analyzed: 05/26/15 17:00**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.549	0.483		mg/l				13	20

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

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

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15E1614 5E21034

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: Reservoir Effluent Site #5 / 15E1614-02	**Sampled: 05/20/15 11:05 PS Code:** **Water** **WTX ID:** **UCMR ID:**
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (A) 40ml Amber Vial (B)	

BJ Olney	05/21/15 8:00	Chris Martinez	5-21-15 / 10:30
Released By	Date / Time	Received By	Date / Time
Chris Martinez	5-21-15 / 1:25	Jan Ivmen	5/21/15 1325 2.3C
Released By	Date / Time	Received By	Date / Time

Clinical Laboratory of San Bernardino, Inc. ISE1614 9/9/14 *Chain of Custody*

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717		
Phone #	(310) 325-9830	*Destination Laboratory*	
Fax #	(310) 325-3627	[X] Clinical Laboratory	
Project	*Standard Analysis*	*CDWR Compliance*	
Sub Project	*CWPF Weekly ComplianceAnalysis*	*YES*	
		ELAP #	
Comments		**1088**	
Sampled by	Edward DuBoux		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes
		Raw Water Site #1	DW	1W	HCL										W13-005
		Raw Water Site #1	DW	1W	N/A										W13-005
9/9/15	1102	Filter Effluent Site (Chloramine) #3 (2)	DW	1W	N/A		X	X				X			E13-005A
9/9/15	1104	Reservoir Effluent Site #5 (1)	DW	1W	N/A				X						
9/9/15	1105	Reservoir Effluent Site #5 (2)	DW	1W	HCL								X		
		Zone #2 Site #6	DW	1W	N/A										

Preservatives: (1) $Na_2S_2O_3$ (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, 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 DuBoux	9/9/15 1130		J.Lucero/ CLSB
	City of Lomita	9/9/15 1530		

Comments: J.Lucero/ CLSB

Samples received: ( ) On ice (X) Intact ( ) Custody seals
Temp 14.3 ( ) F (X) C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other* _____ *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

08 June 2015 Clinical Lab No.: 15E2068

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 05/27/15 . 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: 15E2068
24373 Walnut Avenue	Sub Project: CWPF Weekly Compliance Analysis Monthly	Received: 05/27/15 17:00
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 06/08/15

Raw Water Site #1 **15E2068-01 (Water)** **Sample Date:** 05/27/15 11:55 **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	05/27/15	05/27/15	1522250	
Microbiology Analyses									
Total Coliform (Density)	SM 9223	ND	1.0	N/A	MPN/100 mL	05/27/15	05/28/15	1522363	
E. Coli (Density)	SM 9223	ND	1.0	N/A	MPN/100 mL	05/27/15	05/28/15	1522363	

Filter Effluent Site (Chloramine) #3 **15E2068-02 (Water)** **Sample Date:** 05/27/15 10:42 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	05/27/15	05/27/15	1522362	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/01/15	06/01/15	1523016	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/01/15	06/01/15	1523016	

Filter Effluent Site (Chloramine) #3 **15E2068-03 (Water)** **Sample Date:** 05/27/15 10:45 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	05/27/15	05/27/15	1522362	

Reservoir Effluent Site #5 **15E2068-04 (Water)** **Sample Date:** 05/27/15 10:44 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**690**	5.0	1000	mg/L	05/28/15	05/29/15	1522281	

ND Analyte NOT DETECTED at or above the reporting limit

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 15E2068
Report Date: 06/08/2015
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-006			Sampled: 150527 10:42
COLOR	Result: ND	Units: UNITS	Entry No.: 00081		Analyzed: 150527
WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-006			Sampled: 150527 10:45
COLOR	Result: ND	Units: UNITS	Entry No.: 00081		Analyzed: 150527
WELL 05 TREATMENT PLANT EFFLUENT		Station No.: 1910073-006			Sampled: 150527 10:42
IRON	Result: ND	Units: UG/L	Entry No.: 01045		Analyzed: 150601
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055		Analyzed: 150601

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Certificate of Analysis

Report Date: 06/09/15 11:28
Received Date: 06/01/15 13:15
Turnaround Time: 5 workdays

Project: 15E2068

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 6/1/2015 with the Chain of Custody document. The samples were received in good condition, at 1.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5F01059-01 **Sample ID: Reservoir Effluent Site #5 / 15E2068-04** **Matrix:** Water
Sampled by: Client **Sampled: 05/27/15 10:44**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**0.59**		0.010	mg/l	1	RSK-175	6/5/15	6/5/15 14:21	W5F0341	

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www.wecklabs.com

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5F0341 - RSK-175

Blank (W5F0341-BLK1) — **Prepared: 06/05/15 Analyzed: 06/05/15 13:39**

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

LCS (W5F0341-BS1) — **Prepared: 06/05/15 Analyzed: 06/05/15 14:00**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.211		mg/l	0.198	106	85-115		

Calibration Check (W5F0341-CCV1) — **Prepared: 06/05/15 Analyzed: 06/05/15 13:49**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00745		mg/l	0.00792	94	50-150		

Calibration Check (W5F0341-CCV2) — **Prepared: 06/05/15 Analyzed: 06/05/15 13:28**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.211		mg/l	0.198	106	85-115		

Duplicate (W5F0341-DUP1) — **Source: 5F05005-02** — **Prepared: 06/05/15 Analyzed: 06/05/15 14:42**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.671	0.634		mg/l				6	20

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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

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SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15E2068 5F01059

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: Reservoir Effluent Site #5 / 15E2068-04	**Sampled: 05/27/15 10:44 PS Code: Water** **WTX ID:** **UCMR ID:**
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (A) 40ml Amber Vial (B)	

BJ Clay	05/29/15 13:30	Chris Martinez	6-1-15 / 17:00
Released By	Date / Time	Received By	Date / Time
Chris Martinez	6-1-15 / 1:15	James Lenney	6/1/15 1315 1.8°C
Released By	Date / Time	Received By	Date / Time

1/1/3 15E2068

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717		
Phone #	(310) 325-9830	*Destination Laboratory*	
Fax #	(310) 325-3627	[X] Clinical Laboratory	
Project	*Standard Analysis*	*CDWR Compliance*	
Sub Project	*CWPF Weekly ComplianceAnalysis* Monthly	*YES*	
Comments		*ELAP #*	
Sampled by	Edward DeVivar	**1088**	

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Total Coliform	Fecal Coliform	Color	Methane (WATER) (RSK175)		Comments / P.S. Codes
		Raw Water Site #1	GW	1W	HCL	-									W13-005
5/27/15	11:55	Raw Water Site #1	GW	1W	1,7	0				X	X				W13-005 Monthly
5/27/15	10:42	Filter Effluent Site (Chloramine) #3	DW	1W	N/A	-	X	X				X			E13-005A
5/26/15	10:45	Filter Effluent Site (Chloramine) #3	DW	1W	N/A	-						X			
5/27/15	1043	Reservoir Effluent Site #5 Shared	DW	1D	N/A	-			X						
5/27/15	1049	Reservoir Effluent Site #5 2	DW	1D	HCL	-							X		
		Zone #2 Site #6	DW	1D	N/A	-									

Preservatives: (1) $Na_2S_2O_3$ (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, 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 DeVivar	5/27/15 12:00		J.Lucero/CLSB
	City of Lomita	5-27-15/ 5:00		

Comments: J.Lucero/CLSB

Samples received: ( ) On ice (X) Intact ( ) Custody seals
Temp_____ ( ) F (X) C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [X] *Other* _____ *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution" 17.5C

Clinical Laboratory of San Bernardino, Inc.

Lomita, City of	Project: SOC's	Work Order: 15E0464
24373 Walnut Avenue	Sub Project: Title 22	Received: 05/06/15 17:00
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 05/26/15

Raw Water Site #1 **15E0464-01 (Water)** **Sample Date:** 05/06/15 13:00 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Volatile Organic Analyses									
Tetrachloroethylene (PCE)	EPA 524.2	ND	0.50	5	ug/L	05/19/15	05/20/15	1520397	
Trichloroethylene (TCE)	EPA 524.2	ND	0.50	5	ug/L	05/19/15	05/20/15	1520397	
Carbon Tetrachloride	EPA 524.2	ND	0.50	0.5	ug/L	05/19/15	05/20/15	1520397	
Methyl tert-Butyl Ether	EPA 524.2	ND	3.0	13	ug/L	05/19/15	05/20/15	1520397	
1,1-Dichloroethane (1,1-DCA)	EPA 524.2	ND	0.50	5	ug/L	05/19/15	05/20/15	1520397	
cis-1,2-Dichloroethylene (c-1,2-DCE)	EPA 524.2	ND	0.50	6	ug/L	05/19/15	05/20/15	1520397	
1,1-Dichloroethylene (1,1-DCE)	EPA 524.2	ND	0.50	6	ug/L	05/19/15	05/20/15	1520397	
1,2-Dichloroethane (1,2-DCA)	EPA 524.2	ND	0.50	0.5	ug/L	05/19/15	05/20/15	1520397	
Benzene	EPA 524.2	ND	0.50	1	ug/L	05/19/15	05/20/15	1520397	
Dichlorodifluoromethane	EPA 524.2	ND	0.50		ug/L	05/19/15	05/20/15	1520397	
Ethyl tert-Butyl Ether	EPA 524.2	ND	3.0		ug/L	05/19/15	05/20/15	1520397	
Tert-Amyl Methyl Ether	EPA 524.2	ND	3.0		ug/L	05/19/15	05/20/15	1520397	
Tertiary Butyl Alcohol	EPA 524.2	ND	2.0		ug/L	05/19/15	05/20/15	1520397	
1,1,1-Trichloroethane (1,1,1-TCA)	EPA 524.2	ND	0.50		ug/L	05/19/15	05/20/15	1520397	
1,1,2-Trichloroethane (1,1,2-TCA)	EPA 524.2	ND	0.50		ug/L	05/19/15	05/20/15	1520397	
Dichloromethane (Methylene Chloride)	EPA 524.2	ND	0.50		ug/L	05/19/15	05/20/15	1520397	
1,2-Dichloropropane	EPA 524.2	ND	0.50		ug/L	05/19/15	05/20/15	1520397	
Chloroform (Trichloromethane)	EPA 524.2	ND	1.0		ug/L	05/19/15	05/20/15	1520397	
Total Trihalomethanes (TTHM)	EPA 524.2	ND	1.0		ug/L	05/19/15	05/20/15	1520397	
Bromodichloromethane	EPA 524.2	ND	1.0		ug/L	05/19/15	05/20/15	1520397	
Bromoform	EPA 524.2	ND	1.0		ug/L	05/19/15	05/20/15	1520397	
Dibromochloromethane	EPA 524.2	ND	1.0		ug/L	05/19/15	05/20/15	1520397	
Vinyl Chloride (VC)	EPA 524.2	ND	0.50		ug/L	05/19/15	05/20/15	1520397	
trans-1,2-Dichloroethylene (t-1,2-DCE)	EPA 524.2	ND	0.50		ug/L	05/19/15	05/20/15	1520397	
Toluene	EPA 524.2	ND	0.50	150	ug/L	05/19/15	05/20/15	1520397	
Surrogate: 1,2-Dichlorobenzene-d4	*EPA 524.2*	*102 %*				*05/19/15*	*05/20/15*	*1520397*	
Surrogate: Bromofluorobenzene	*EPA 524.2*	*91 %*				*05/19/15*	*05/20/15*	*1520397*	
Volatile Organic Analyses / EPA 504									
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	0.05	ug/L	05/15/15	05/16/15	1520545	
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	0.2	ug/L	05/15/15	05/16/15	1520545	
Semi-Volatile Organic Analyses									
Endrin	EPA 508.1	ND	0.10	2	ug/L	05/14/15	05/21/15	1521435	
Lindane (gamma-BHC)	EPA 508.1	ND	0.20	0.2	ug/L	05/14/15	05/21/15	1521435	
Methoxychlor	EPA 508.1	ND	10	30	ug/L	05/14/15	05/21/15	1521435	
Toxaphene	EPA 508.1	ND	1.0	3	ug/L	05/14/15	05/21/15	1521435	
Chlordane	EPA 508.1	ND	0.10	0.1	ug/L	05/14/15	05/21/15	1521435	
Heptachlor	EPA 508.1	ND	0.010	0.01	ug/L	05/14/15	05/21/15	1521435	
Heptachlor Epoxide	EPA 508.1	ND	0.010	0.01	ug/L	05/14/15	05/21/15	1521435	

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Lomita, City of	Project: SOC's	Work Order: 15E0464
24373 Walnut Avenue	Sub Project: Title 22	Received: 05/06/15 17:00
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 05/26/15

Raw Water Site #1 **15E0464-01 (Water)** **Sample Date:** 05/06/15 13:00 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Semi-Volatile Organic Analyses									
Hexachlorobenzene	EPA 508.1	ND	0.50	1	ug/L	05/14/15	05/21/15	1521435	
Hexachlorocyclopentadiene	EPA 508.1	ND	1.0	50	ug/L	05/14/15	05/21/15	1521435	
Polychlorinated Biphenyls (PCBs)	EPA 508.1	ND	0.50	0.5	ug/L	05/14/15	05/21/15	1521435	
Surrogate: Dibutylchlorendate	*EPA 508.1*	*84 %*				*05/14/15*	*05/21/15*	*1521435*	
Dalapon	EPA 515.4	ND	10	200	ug/L	05/14/15	05/21/15	1520389	F-05
2,4,5-TP (SILVEX)	EPA 515.4	ND	1.0	50	ug/L	05/14/15	05/21/15	1520389	F-05
Bentazon (BASAGRAN)	EPA 515.4	ND	2.0	18	ug/L	05/14/15	05/21/15	1520389	F-05
Picloram	EPA 515.4	ND	1.0	500	ug/L	05/14/15	05/21/15	1520389	F-05
2,4-D	EPA 515.4	ND	10	70	ug/L	05/14/15	05/21/15	1520389	F-05
Pentachlorophenol (PCP)	EPA 515.4	ND	0.20	1	ug/L	05/14/15	05/21/15	1520389	F-05
Dinoseb (DNBP)	EPA 515.4	ND	2.0	7	ug/L	05/14/15	05/21/15	1520389	F-05
Surrogate: 2,4-Dichlorophenylacetic acid	*EPA 515.4*	*24 %*				*05/14/15*	*05/21/15*	*1520389*	F-05, QM-08
Alachlor (ALANEX)	EPA 525.2	ND	1.0	2	ug/L	05/07/15	05/08/15	1519440	
Atrazine (AATREX)	EPA 525.2	ND	0.50	1	ug/L	05/07/15	05/08/15	1519440	
Benzo(a)pyrene	EPA 525.2	ND	0.10	0.2	ug/L	05/07/15	05/08/15	1519440	
Diethylhexylphthalate (DEHP)	EPA 525.2	ND	3.0	4	ug/L	05/07/15	05/08/15	1519440	
Di(2-ethylhexyl) adipate	EPA 525.2	ND	5.0	400	ug/L	05/07/15	05/08/15	1519440	
Molinate (ORDRAM)	EPA 525.2	ND	2.0	20	ug/L	05/07/15	05/08/15	1519440	
Simazine (PRINCEP)	EPA 525.2	ND	1.0	4	ug/L	05/07/15	05/08/15	1519440	
Thiobencarb (BOLERO)	EPA 525.2	ND	1.0	70	ug/L	05/07/15	05/08/15	1519440	
Surrogate: 1,3-dimethyl-2-nitrobenzene	*EPA 525.2*	*91 %*				*05/07/15*	*05/08/15*	*1519440*	
Surrogate: Perylene-d12	*EPA 525.2*	*115 %*				*05/07/15*	*05/08/15*	*1519440*	
Surrogate: Triphenylphosphate	*EPA 525.2*	*93 %*				*05/07/15*	*05/08/15*	*1519440*	
Oxamyl (VYDATE)	EPA 531.1	ND	20	50	ug/L	05/08/15	05/14/15	1520018	
Carbofuran (FURADAN)	EPA 531.1	ND	5.0	18	ug/L	05/08/15	05/14/15	1520018	
Glyphosate	EPA 547	ND	25	700	ug/L	05/16/15	05/16/15	1521028	
Endothall	EPA 548.1	ND	45	100	ug/L	05/13/15	05/17/15	1520166	

QM-08 The surrogate recovery was outside acceptance limits for this sample due to probable matrix interference.

F-05 Analysis on hold; sample re-analyzed per supervisor/project manager request

ND Analyte NOT DETECTED at or above the reporting limit

Stu Styles

Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 15E0464
Report Date: 05/26/2015
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05 Station No.: 1910073-003 Sampled: 150506 13:00

BROMODICHLORMETHANE (THM)	Result: ND	Units: UG/L	Entry No.: 32101	Analyzed: 150520
CARBON TETRACHLORIDE	Result: ND	Units: UG/L	Entry No.: 32102	Analyzed: 150520
BROMOFORM (THM)	Result: ND	Units: UG/L	Entry No.: 32104	Analyzed: 150520
DIBROMOCHLOROMETHANE (THM)	Result: ND	Units: UG/L	Entry No.: 32105	Analyzed: 150520
CHLOROFORM (THM)	Result: ND	Units: UG/L	Entry No.: 32106	Analyzed: 150520
TOLUENE	Result: ND	Units: UG/L	Entry No.: 34010	Analyzed: 150520
BENZENE (BENZOL)	Result: ND	Units: UG/L	Entry No.: 34030	Analyzed: 150520
BENZO (A) PYRENE	Result: ND	Units: UG/L	Entry No.: 34247	Analyzed: 150508
HEXACHLOROCYCLOPENTADIENE	Result: ND	Units: UG/L	Entry No.: 34386	Analyzed: 150521
DICHLOROMETHANE	Result: ND	Units: UG/L	Entry No.: 34423	Analyzed: 150520
TETRACHLOROETHYLENE	Result: ND	Units: UG/L	Entry No.: 34475	Analyzed: 150520
1,1-DICHLOROETHANE	Result: ND	Units: UG/L	Entry No.: 34496	Analyzed: 150520
1,1-DICHLOROETHYLENE	Result: ND	Units: UG/L	Entry No.: 34501	Analyzed: 150520
1,1,1-TRICHLOROETHANE	Result: ND	Units: UG/L	Entry No.: 34506	Analyzed: 150520
1,1,2-TRICHLOROETHANE	Result: ND	Units: UG/L	Entry No.: 34511	Analyzed: 150520
1,2-DICHLOROETHANE	Result: ND	Units: UG/L	Entry No.: 34531	Analyzed: 150520
1,2-DICHLOROPROPANE (D-D)	Result: ND	Units: UG/L	Entry No.: 34541	Analyzed: 150520
TRANS-1,2-DICHLOROETHYLENE	Result: ND	Units: UG/L	Entry No.: 34546	Analyzed: 150520
DICHLORODIFLUOROMETHANE (FREON 12	Result: ND	Units: UG/L	Entry No.: 34668	Analyzed: 150520
DALAPON (DOWPON)	Result: ND	Units: UG/L	Entry No.: 38432	Analyzed: 150521
BENTAZON (BASAGRAN)	Result: ND	Units: UG/L	Entry No.: 38710	Analyzed: 150521
DIBROMOCHLOROPROPANE (DBCP)	Result: ND	Units: UG/L	Entry No.: 38761	Analyzed: 150516
OXAMYL (VYDATE)	Result: ND	Units: UG/L	Entry No.: 38865	Analyzed: 150514
ENDOTHALL	Result: ND	Units: UG/L	Entry No.: 38926	Analyzed: 150517
PENTACHLOROPHENOL	Result: ND	Units: UG/L	Entry No.: 39032	Analyzed: 150521
ATRAZINE (AATREX)	Result: ND	Units: UG/L	Entry No.: 39033	Analyzed: 150508
2,4,5-TP (SILVEX)	Result: ND	Units: UG/L	Entry No.: 39045	Analyzed: 150521
SIMAZINE (PRINCEP)	Result: ND	Units: UG/L	Entry No.: 39055	Analyzed: 150508
DI(2-ETHYLHEXYL)PHTHALATE	Result: ND	Units: UG/L	Entry No.: 39100	Analyzed: 150508
VINYL CHLORIDE	Result: ND	Units: UG/L	Entry No.: 39175	Analyzed: 150520
TRICHLOROETHYLENE	Result: ND	Units: UG/L	Entry No.: 39180	Analyzed: 150520
LINDANE (gamma-BHC)	Result: ND	Units: UG/L	Entry No.: 39340	Analyzed: 150521
CHLORDANE (CHLORDAN)	Result: ND	Units: UG/L	Entry No.: 39350	Analyzed: 150521
ENDRIN (HEXADRIN)	Result: ND	Units: UG/L	Entry No.: 39390	Analyzed: 150521
TOXAPHENE	Result: ND	Units: UG/L	Entry No.: 39400	Analyzed: 150521
HEPTACHLOR	Result: ND	Units: UG/L	Entry No.: 39410	Analyzed: 150521
HEPTACHLOR EPOXIDE	Result: ND	Units: UG/L	Entry No.: 39420	Analyzed: 150521
METHOXYCHLOR	Result: ND	Units: UG/L	Entry No.: 39480	Analyzed: 150521
POLYCHLORINATED BIPHENYLS (TOTAL	Result: ND	Units: UG/L	Entry No.: 39516	Analyzed: 150521
HEXACHLOROBENZENE	Result: ND	Units: UG/L	Entry No.: 39700	Analyzed: 150521
PICLORAM (TORDON)	Result: ND	Units: UG/L	Entry No.: 39720	Analyzed: 150521
2,4-D	Result: ND	Units: UG/L	Entry No.: 39730	Analyzed: 150521
METHYL-TERT-BUTYL-ETHER (MTBE)	Result: ND	Units: UG/L	Entry No.: 46491	Analyzed: 150520
TERT-BUTYL ALCOHOL (TBA)	Result: ND	Units: UG/L	Entry No.: 77035	Analyzed: 150520
CIS-1,2-DICHLOROETHYLENE	Result: ND	Units: UG/L	Entry No.: 77093	Analyzed: 150520
ETHYLENE DIBROMIDE (EDB)	Result: ND	Units: UG/L	Entry No.: 77651	Analyzed: 150516
ALACHLOR (ALANEX)	Result: ND	Units: UG/L	Entry No.: 77825	Analyzed: 150508

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GLYPHOSATE	Result: ND	Units: UG/L	Entry No.: 79743	Analyzed: 150516
DINOSEB	Result: ND	Units: UG/L	Entry No.: 81287	Analyzed: 150521
CARBOFURAN (FURADAN)	Result: ND	Units: UG/L	Entry No.: 81405	Analyzed: 150514
TOTAL TRIHALOMETHANES (THM'S/TTHM	Result: ND	Units: UG/L	Entry No.: 82080	Analyzed: 150520
MOLINATE (ORDRAM)	Result: ND	Units: UG/L	Entry No.: 82199	Analyzed: 150508
THIOBENCARB (BOLERO)	Result: ND	Units: UG/L	Entry No.: A-001	Analyzed: 150508
DI(2-ETHYLHEXYL)ADIPATE	Result: ND	Units: UG/L	Entry No.: A-026	Analyzed: 150508
ETHYL TERT-BUTYL ETHER (ETBE)	Result: ND	Units: UG/L	Entry No.: A-033	Analyzed: 150520
TERT-AMYL METHYL ETHER (TAME)	Result: ND	Units: UG/L	Entry No.: A-034	Analyzed: 150520

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Certificate of Analysis

Report Date: 05/20/15 08:40
Received Date: 05/08/15 10:00
Turnaround Time: 7 workdays

Project: 15E0464

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 5/8/2015 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5E08046-01 **Sample ID: Raw Water Site #1/ 15E0464-01** **Matrix:** Water
Sampled by: Client **Sampled: 05/06/15 13:00**

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	5/11/15	5/13/15 23:09	W5E0517	
Diquat	ND		4.0	ug/l	1	EPA 549.2	5/12/15	5/13/15 15:31	W5E0600	

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Certificate of Analysis

Quality Control Section

Diquat and Paraquat by EPA 549.2 - Quality Control

Batch W5E0600 - EPA 549.2

Blank (W5E0600-BLK1) — **Prepared: 05/12/15 Analyzed: 05/13/15 15:17**

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

LCS (W5E0600-BS1) — **Prepared: 05/12/15 Analyzed: 05/13/15 15:22**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat		13.5		ug/l	20.0	68	48-130		

Matrix Spike (W5E0600-MS1) — **Source: 5E08039-01** — **Prepared: 05/12/15 Analyzed: 05/13/15 15:53**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	14.5		ug/l	22.9	63	46-122		

Matrix Spike Dup (W5E0600-MSD1) — **Source: 5E08039-01** — **Prepared: 05/12/15 Analyzed: 05/13/15 15:57**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Diquat	ND	14.0		ug/l	20.0	70	46-122	3	30

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

Batch W5E0517 - EPA 1613B

Blank (W5E0517-BLK1) — **Prepared: 05/11/15 Analyzed: 05/13/15 20:40**

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 (W5E0517-BS1) — **Prepared: 05/11/15 Analyzed: 05/13/15 20:58**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		4.44		pg/l	5.00	89	50-148		

LCS Dup (W5E0517-BSD1) — **Prepared: 05/11/15 Analyzed: 05/13/15 21:17**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,3,7,8-TCDD (Dioxin)		4.43		pg/l	5.00	89	50-148	0.2	20

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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

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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Date of Report: 15/05/20 **Sample ID No.:** 5E08046-01

Laboratory Name: Weck Laboratories, Inc **Signature Lab Director:**

Name of Sampler: Client

Date/Time Sample Collected: 15/05/06 1300 **Date/Time Sample Received @ Lab:** 15/05/08 1000 **Date Analyses Completed:** 15/05/13

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 | 05 | 06 | 13 | 00
YY MM DD TT TT

Laboratory Code: 9588

Date of Analyses Completed: | 15 | 05 | 13 |
YY MM DD

Submitted By: Weck Laboratories, Inc **Phone #:** (626) 336-2139

TEST METHOD	CHEMICAL	Units	ENTRY #	ANALYSES RESULTS	MCL	DLR
	REGULATED ORGANIC CHEMICALS					
	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/ 15E0464-01 :

14859 East Clark Avenue, City of Industry, CA 91745 Phone: (626) 336-2139 Fax: (626) 336-2634
www.wecklabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15E0464 5E08046

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 [X] Yes [ ] No
Transfer File requested; log in with Element ID only [ ] Yes [X] No
UCMR 3 CDX Transfer [ ] Yes [X] No

Turn Around Time [ ] 10 Days [ ] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: Raw Water Site #1 / 15E0464-01 Water	**Sampled: 05/06/15 13:00 PS Code:** 1910073-003 **WTX ID:** **UCMR ID:**
549 Diquat	
1613 Dioxins	
Containers Supplied:	
1 L Amber Glass Sodium s	1 L Amber Glass Sodium s 1 L Amber Glass Sodium s

Released By	Date / Time	Received By	Date / Time
[signature]	5/8/15	M. Cl[illegible]	5/8/15 9:30
M. Cl[illegible]	5/8/15 10:00	J[illegible]mson	5/8/15 1000 2.0C

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 15E0464

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

Client	City of Lomita	Destination Laboratory	Analysis Requested	Turn Around Time (TAT)
Address:	see pg. 1 of 2	[ ] Clinical Grand Terrace / ELAP 1088		
		[ ] Clinical Lompoc / ELAP 1678		
Client Contact:	Mark Andersen	[ ] Other:		
Phone No.:	FAX No.:			
System No.:				
Project:	Title 22 - SOC			
Sampled By:	Edward DuVivier			
Comments:				

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	trichloroethelene	Monochlorobenzene	Dichloromethane	EDB, DBCP	Chlor. Pesticide / Herbicide	DEHP/DEHA/PAH/Triazine	Carbamate Pesticide	Glyphosate / Endothall	Diquat	Dioxin	Comments
5-6-15	1300	Raw Water Site #1	SOC EDB,	GW	IW		7				3		1		1	12	X	X	X	X	X	X	X	X	X	X	
																		3 vials		2 - EPA 504 vials	1 - EPA 508 amber / 1 - EPA 515 amber	2 - EPA 525 ambers	1 - EPA 531 amber	1 - EPA 547 amber / 1 - EPA 548 amber	1 - EPA 549 amber	2 - EPA 1613 ambers	

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Edward DuVivier	5-6-15 1357		J. McCord / CLSB
	City of Lomita			
	J. McCord / CLSB	5.6.15 / 5:00		CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [X] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____ °C

Appendix B

Methane Monitoring Log

CITY OF LOMITA
PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY
HANDHELD METHANE LOG READINGS

May 2015				
DATE	**TIME**	**METHANE HANDHELD**		**COMMENTS**
5/1/2015	9:45 AM	CH_4- 2%	Oxy- 20.0%	
5/2/2015				
5/3/2015				
5/4/2015	3:30 PM	CH_4- 1%	Oxy- 20.2%	
5/5/2015	2:10 PM	CH_4- 0%	Oxy- 20.0%	
5/6/2015	3:30 PM	CH_4- 0%	Oxy- 20.4%	
5/7/2015	3:45 PM	CH_4- 0%	Oxy- 20.4%	
5/8/2015				
5/9/2015				
5/10/2015				
5/11/2015	2:00 PM	CH_4- 0%	Oxy- 20.0%	
5/12/2015	2:15 PM	CH_4- 0%	Oxy- 20.0%	
5/13/2015	3:30 PM	CH_4- 1%	Oxy- 20.0%	
5/14/2015	3:15 PM	CH_4- 1%	Oxy- 19.9%	
5/15/2015	3:15 PM	CH_4- 2%	Oxy- 20.0%	
5/16/2015				
5/17/2015				
5/18/2015	3:30 PM	CH_4- 0%	Oxy- 20.1%	
5/19/2015	12:50 PM	CH_4- 0%	Oxy- 19.9%	
5/20/2015	12:45 PM	CH_4- 0%	Oxy- 19.9%	
5/21/2015	12:15 PM	CH_4- 0%	Oxy- 20.0%	
5/22/2015				
5/23/2015				
5/24/2015				
5/25/2015				
5/26/2015	3:00 PM	CH_4- 0%	Oxy- 19.0%	
5/27/2015	3:00 PM	CH_4- 0%	Oxy- 20.1%	
5/28/2015	3:35 PM	CH_4- 0%	Oxy- 20.0%	
5/29/2015	12:45 PM	CH_4- 0%	Oxy- 20.0%	
5/30/2015				
5/31/2015				

ND- Non Detect
CH_4- Methane
Oxy- Oxygen
Weekend/Day Off/Holiday- Red