

CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

March 2015

CITY COUNCIL

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



CITY OF LOMITA

ADMINISTRATION

MICHAEL ROCK
CITY MANAGER

April 9, 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 March 1 through March 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 March 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 March 2015, the CWPF operated for approximately 31 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 64.55 ac-ft (21,033,812 gallons) with a daily production of approximately 2.08 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 115.84 ac-ft (37,745,552 gallons) for the month with a combined daily production of approximately 3.74 ac-ft. The daily average flow from Well No. 5 was 524 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 March 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	SP1, Well Raw Water Discharge							SP2, Combined Pressure Filter Effluent			SP3, After chloramination static mixer; reservoir entry					
	Iron, ug/L	*MCL = 300 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
3/4/2015	179	300	83.1	50	10	15	A	A	A	500	ND	300	ND	50	5	15
3/11/2015											ND	300	ND	50	ND	15
3/18/2015											ND	300	ND	50	ND	15
3/25/2015											ND	300	ND	50	7.5**	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 taken on 4/1/15 to make up for missed sample on 3/25/15. An additional color sample at SP3 will be taken in April.

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
3/4/2015	9.52	5.36	7.28	0.58	2.89	4
3/11/2015	9.68	5.60	6.80	0.60	3.42	4
3/18/2015	9.39	4.32	6.03	0.52	3.62	4
3/25/2015	8.57	7.78	8.46	0.53	3.49	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
3/4/2015	700	610	580	500-750	1	3	300	180-250	2.4	0.52
3/11/2015			680	500-750						0.49
3/18/2015			670	500-750						0.54
3/25/2015			670	500-750						0.40
Average			650							0.49

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 650 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 March indicate the hardness levels of the blended water to be 300 mg/L. Although, this hardness level is in the upper range of the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the water distribution system. The City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

Staff continues to use an orthophosphate/polyphosphate additive to sequester calcium hardness. Orthophosphate/Polyphosphate is a food grade National Sanitation Foundation (NSF 60) approved additive which decreases iron tuberculation, diminishes calcium scale deposits, minimizes corrosion, reduces discoloration, reduces staining and mineral build-up resulting in fewer customer complaints.

F. Dissolved Methane (in Water)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.49 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 March 2015 in Appendix B.

Appendix A

Laboratory Results

Clinical Laboratory of San Bernardino, Inc.



03 April 2015

Clinical Lab No.: 15C2002

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 03/25/15. 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,

Stu Styles

Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 15C2002
Received: 03/25/15 16:45
Reported: 04/03/15

Filter Effluent Site #3 **15C2002-01 (Water)** **Sample Date:** 03/25/15 0:00 **Sampler:** Edward Duvivier

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

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	04/01/15	04/01/15	1514227	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	04/01/15	04/01/15	1514227	

Reservoir Effluent Site #5 **15C2002-02 (Water)** **Sample Date:** 03/25/15 9:43 **Sampler:** Edward Duvivier

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

Total Filterable Residue/TDS	SM 2540C	670	5.0	1000	mg/L	03/26/15	03/30/15	1513385	
ND	Analyte NOT DETECTED at or above the reporting limit								



Certificate of Analysis

Project: 15C2002

Report Date: 04/03/15 09:21

Received Date: 03/26/15 14:22

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 3/26/2015 with the Chain of Custody document. The samples were received in good condition, at 4.5 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5C26031-01

Sample ID: Reservoir Effluent Site #5 / 15C2002-02

Matrix: Water

Sampled by: Client

Sampled: 03/25/15 09:43

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.40		0.010	mg/l	1	RSK-175	3/27/15	3/27/15 15:52	W5C1715	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5C1715 - RSK-175

Blank (W5C1715-BLK1)

Prepared: 03/27/15 Analyzed: 03/27/15 15:09

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

LCS (W5C1715-BS1)

Prepared: 03/27/15 Analyzed: 03/27/15 15:31

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.181		mg/l	0.198	92	85-115		

Calibration Check (W5C1715-CCV1)

Prepared: 03/27/15 Analyzed: 03/27/15 15:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00724		mg/l	0.00792	91	50-150		

Calibration Check (W5C1715-CCV2)

Prepared: 03/27/15 Analyzed: 03/27/15 14:58

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 (W5C1715-DUP1)

Source: 5C26031-01

Prepared: 03/27/15 Analyzed: 03/27/15 16:03

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.399	0.420		mg/l				5	20



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 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
15C2002

5C26031

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 / 15C2002-02

Sampled: 03/25/15 09:43 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

3/26/15 08:50

Date / Time

Received By

3-26-15/11:05

Date / Time

Released By

3-26-15/2:22

Date / Time

Received By

3/26/15 1422 45.6

Date / Time

SC 2U Chain of Custody

"Your Water and Wastewater Analysis Solution"

[illegible]

Clinical Laboratory of San Bernardino, Inc.



07 April 2015

Clinical Lab No.: 15D0181

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 04/01/15 . 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,

DRAFT REPORT
DATA SUBJECT TO CHANGE

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 15D0181
Received: 04/01/15 17:00
Reported: 04/07/15

Filter Effluent Site (Chloramine) #3 **15D0181-03 (Water)** **Sample Date:** 04/01/15 11:20 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Clinical Laboratory of San Bernardino

General Physical Analyses

Apparent Color	SM 2120B	7.5	3.0	15	Color Units	04/01/15	04/01/15	1514421
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ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.



03 April 2015

Clinical Lab No.: 15C1516

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 03/18/15. 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,

Stu Styles

Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 15C1516
Received: 03/18/15 16:30
Reported: 04/03/15

Filter Effluent Site (Chloramine) #3

15C1516-01 (Water)

Sample Date: 03/18/15 11:30 Sampler: ESD

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

Apparent Color	SM 2120B	ND	3.0	15	Color Units	03/19/15	03/19/15	1512508	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	03/24/15	03/24/15	1513071	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	03/24/15	03/24/15	1513071	
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Reservoir Effluent Site #5

15C1516-02 (Water)

Sample Date: 03/18/15 11:35 Sampler: ESD

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

Total Filterable Residue/TDS	SM 2540C	670	5.0	1000	mg/L	03/19/15	03/23/15	1512455	
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ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Report Date: 04/03/15 08:38

Received Date: 03/19/15 12:42

Turnaround Time: 5 workdays

Project: 15C1516

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 3/19/2015 with the Chain of Custody document. The samples were received in good condition, at 3.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5C19038-01		Sample ID: Reservoir Effluent Site #5 / 15C1516-02							Matrix: Water	
Sampled by: Client		Sampled: 03/18/15 11:35								
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.54		0.010	mg/l	1	RSK-175	3/27/15	3/27/15 15:41	W5C1715	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5C1715 - RSK-175

Blank (W5C1715-BLK1)					Prepared: 03/27/15		Analyzed: 03/27/15 15:09		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5C1715-BS1)					Prepared: 03/27/15		Analyzed: 03/27/15 15:31		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.181		mg/l	0.198	92	85-115		
Calibration Check (W5C1715-CCV1)					Prepared: 03/27/15		Analyzed: 03/27/15 15:20		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00724		mg/l	0.00792	91	50-150		
Calibration Check (W5C1715-CCV2)					Prepared: 03/27/15		Analyzed: 03/27/15 14:58		
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 (W5C1715-DUP1)		Source: 5C26031-01			Prepared: 03/27/15		Analyzed: 03/27/15 16:03		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.399	0.420		mg/l				5	20



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

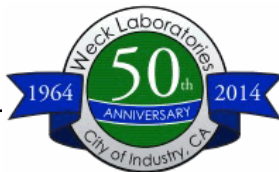
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 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
15C1516

5C19038

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 / 15C1516-02

Sampled: 03/18/15 11:35 PS Code:
Water

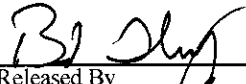


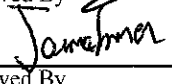
WTX ID:
UCMR ID:

Methane RSK175

Report in mg/L

Containers Supplied:

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

Released By 	Date / Time 03/19/15 10:15	Received By 	Date / Time 3-19-15 / 10:50
Released By 	Date / Time 3-19-15 / 12:42	Received By 	Date / Time 3/19/15 1242 3.96

5C1516 8/8/13

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		CDWR Compliance													
Sub Project	CWPF Weekly Compliance Analysis		YES													
Comments	ESD		ELAP #													
Sampled by			1088													
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes	
3-18-15	1130	Filter Effluent Site (Chloramine) #3	DW	1W	N/A		X	X				X			W13-005	
															W13-005	
															E13-005A	
3-18-15	1132	Reservoir Effluent Site #5 (1)	DW	1W	N/A				X							
3-18-15	1135	Reservoir Effluent Site #5 (2)	DW	1W	HCL								X			
3-18-15	1135															
		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.													
Relinquished By (Sign)	Print Name / Company	Date / Time	Revised By (Sign)	Print Name / Company												
<i>[Signature]</i>	Edward D. [Signature]	3/18/15 / 12:40	<i>[Signature]</i>	Silvia [Signature]												
<i>[Signature]</i>	City of Lomita	3-18-15 / 4:30	<i>[Signature]</i>	On ice () Intact () Custody seals Temp () F () C												
Comments:																
Shipped Via	<input type="checkbox"/> Fed X <input type="checkbox"/> Golden State <input type="checkbox"/> UPS <input type="checkbox"/> Client <input type="checkbox"/> Other	Page 1 of 1														

"Your Water and Wastewater Analysis Solution"

16.9C

Clinical Laboratory of San Bernardino, Inc.



20 March 2015

Clinical Lab No.: 15C0949

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 03/11/15. 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', with a stylized flourish at the end.

Stu Styles

Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 15C0949
Received: 03/11/15 16:15
Reported: 03/20/15

Filter Effluent Site (Chloramine) #3 **15C0949-01 (Water)** **Sample Date:** 03/11/15 11:39 **Sampler:** Edward Duvivier

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

Apparent Color	SM 2120B	ND	Color Units	3.0	15	03/13/15	03/13/15	1511576	
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Metals

Iron (Fe)	EPA 200.7	ND	ug/L	100	300	03/17/15	03/17/15	1512096	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	03/17/15	03/17/15	1512096	

Reservoir Effluent Site #5 **15C0949-02 (Water)** **Sample Date:** 03/11/15 10:06 **Sampler:** Edward Duvivier

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

Total Filterable Residue/TDS	SM 2540C	680	mg/L	5.0	1000	03/12/15	03/16/15	1511408	
-------------------------------------	----------	------------	------	-----	------	----------	----------	---------	--

ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15C0949

Report Date: 03/18/15 10:01

Received Date: 03/12/15 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 3/12/2015 with the Chain of Custody document. The samples were received in good condition, at 4.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5C12046-01		Sample ID: Reservoir Effluent Site #5 / 15C0949-01							Matrix: Water	
Sampled by: Client		Sampled: 03/11/15 10:06								
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.49		0.010	mg/l	1	RSK-175	3/15/15	3/15/15 12:50	W5C0920	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5C0920 - RSK-175

Blank (W5C0920-BLK1)

Prepared: 03/15/15 Analyzed: 03/15/15 12:18

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

LCS (W5C0920-BS1)

Prepared: 03/15/15 Analyzed: 03/15/15 12:40

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.196		mg/l	0.198	99	85-115		

Calibration Check (W5C0920-CCV1)

Prepared: 03/15/15 Analyzed: 03/15/15 12:29

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00731		mg/l	0.00792	92	50-150		

Calibration Check (W5C0920-CCV2)

Prepared: 03/15/15 Analyzed: 03/15/15 12:07

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.208		mg/l	0.198	105	85-115		

Duplicate (W5C0920-DUP1)

Source: 5C12046-01

Prepared: 03/15/15 Analyzed: 03/15/15 13:01

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.494	0.496		mg/l				0.3	20



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 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

150949

Clinical Laboratory of San Bernardino, Inc.

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			CDWR Compliance											
Sub Project	CWPF Weekly Compliance Analysis			YES											
Comments				ELAP #											
Sampled by	Edward Duvivier			1088											
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes
3-11-15	1139	Filter Effluent Site (Chloramine) #3 (2)	DW	1W	N/A		X	X				X			W13-005
															W13-005
3-11-15	1005	Reservoir Effluent Site #5 (3)	DW	1W	N/A				X						
3-11-15	1006	Reservoir Effluent Site #5	DW	1W	HCL								X		
		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:															
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company							
		Edward Duvivier		3-11-15 1135				J. L. Leno / CSB							
		City of Lomita		3-11-15 4:15				J. L. Leno / CSB							
Comments:		J. L. Leno / CSB				Samples received: (X) On ice (X) Intact () Custody seals				Temp 15.6 () 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.



16 March 2015

Clinical Lab No.: 15C0443

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 03/04/15 . 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,

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

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 15C0443
Received: 03/04/15 16:30
Reported: 03/16/15

Raw Water Site #1 **15C0443-01 (Water)** **Sample Date:** 03/04/15 10:45 **Sampler:** Edward Duvivier

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

Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	03/05/15	03/09/15	1510454	
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Reservoir Effluent Site #5 **15C0443-03 (Water)** **Sample Date:** 03/04/15 10:53 **Sampler:** Edward Duvivier

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

Apparent Color	SM 2120B	ND	3.0	15	Color Units	03/04/15	03/04/15	1510528	
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Odor Threshold	EPA 140.1M	1	1	3	TON	03/04/15	03/04/15	1510528	
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General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	580	5.0	1000	mg/L	03/06/15	03/09/15	1510566	
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ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15C0443

Report Date: 03/12/15 15:08

Received Date: 03/05/15 13:25

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

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

Dear John Styles :

Enclosed are the results of analyses for samples received 3/5/2015 with the Chain of Custody document. The samples were received in good condition, at 5.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5C05038-01	Sample ID: Raw Water Site #1/15C0443-01	Matrix: Water
Sampled by: Client	Sampled: 03/04/15 10:45	

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	2.4		0.050	mg/l	5	RSK-175	3/10/15	3/10/15 15:20	W5C0577	M-05

Lab Sample ID: 5C05038-02	Sample ID: Reservoir Effluent Site #5/15C0443-03	Matrix: Water
Sampled by: Client	Sampled: 03/04/15 10:53	

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.52		0.010	mg/l	1	RSK-175	3/10/15	3/10/15 14:59	W5C0577	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5C0577 - RSK-175

Blank (W5C0577-BLK1)

Prepared: 03/10/15 Analyzed: 03/10/15 14:27

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

LCS (W5C0577-BS1)

Prepared: 03/10/15 Analyzed: 03/10/15 14:48

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.196		mg/l	0.198	99	85-115		

Calibration Check (W5C0577-CCV1)

Prepared: 03/10/15 Analyzed: 03/10/15 14:38

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00744		mg/l	0.00792	94	0-200		

Calibration Check (W5C0577-CCV2)

Prepared: 03/10/15 Analyzed: 03/10/15 14:16

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.221		mg/l	0.198	112	0-200		

Duplicate (W5C0577-DUP1)

Source: 5C05038-02

Prepared: 03/10/15 Analyzed: 03/10/15 15:10

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.517	0.552		mg/l				7	20



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC # 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:

M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
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

15C0443

5C05038

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: Raw Water Site #1 / 15C0443-01****Sampled: 03/04/15 10:45 PS Code:**
Water**WTX ID:**
UCMR ID:

Methane RSK175

Containers Supplied:

40mL Amber Vial w/ Na2S 40mL Amber Vial w/ Na2S

Sample ID: Reservoir Effluent Site #5 / 15C0443-03**Sampled: 03/04/15 10:53 PS Code:**
Water**WTX ID:**
UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (B) 40ml Amber Vial (C)

Report in mg/L

5.4

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

0/1/16

Client		City of Lomita		System Number		Analysis Requested									
Address		24373 Walnut Avenue Lomita, CA 91717		1910073											
Phone #		(310) 325-9830		Destination Laboratory											
Fax #		(310) 325-3627		[X] Clinical Laboratory											
Project		Standard Analysis		CDHP Compliance											
Sub Project		Monthly Weekly Compliance		YES											
Comments				ELAP #											
Sampled by		Edward D. Vivero		1088											
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine	Total Alkalinity	Total Hardness	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	
3-4-15	1044	Raw Water Site #1	DW	1W	N/A				X						
3-4-15	1045	Raw Water Site #1	DW		2,7								X		
		Reservoir Influent Site #4	DW	1W	N/A										
3-4-15	1046	Zone #2 Site #6	DW	1D	N/A				X						
3-4-15	1052	Reservoir Effluent Site #5	DW	1D	N/A							X			
3-4-15	1053	Reservoir Effluent Site #5	DW		2,7								X		
3-4-15	1054	Reservoir Effluent Site #5	DW	1	7				X					Shared Containment	
		Reservoir Headspace Level (a)	Air	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:															
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company							
Edward D. Vivero		Edward D. Vivero		3-4-2015 1059		[Signature]		J. W. C. / C. S. B.							
[Signature]		City of Lomita		3-4-15 / 4:30		[Signature]		J. W. C. / C. S. B.							
Comments		J. W. C. / C. S. B.				Samples received: () On ice () Intact () Custody seals									
						Temp 14.9 () F									
Shipped Via		Fed X		Golden State		UPS		Client		Other		Page 1 of 1			

Clinical Laboratory of San Bernardino, Inc.



16 March 2015

Clinical Lab No.: 15C0991

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

Project Name: Standard Analysis
Sub Project:

Enclosed are the results of the analyses for samples received at the laboratory on 03/11/15 . 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:
Project Manager: Mark Andersen

Work Order: 15C0991
Received: 03/11/15 16:15
Reported: 03/16/15

Zone 2 Site #6

15C0991-01 (Water)

Sample Date: 03/06/15 12:45

Sampler: Edward Duvivier

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

Total Filterable Residue/TDS	SM 2540C	610	5.0	mg/L	1000	03/12/15	03/16/15	1511408	
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ND Analyte NOT DETECTED at or above the reporting limit



CLIENT JOB NUMBER

CLIENT JOB NUMBER
1910073

(Company Use Only)

DESTINATION LABORATORY

**CLINICAL LABORATORY
OF SAN BERNARDINO, INC.**
(909) 825-7693

☐ OTHERNUMBER OF
CONTAINERS

MATRIX

SAMPLE IDENTIFICATION

DIV 2 1

Zone 2

ANALYSIS REQUESTED

TURN AROUND TIME

PRESERVATIVES

Total Dissolved Solids

X

(?) ? DAY RUSH ALL TURN AROUND TIMES ARE EXPRESSED AS WORKING DAYS.
THAN CHOSEN TIME DUE TO METHOD LIMITATIONS.

(10) 10 DAY (5) 5 DAY RUSH
SOME ANALYSES MAY TAKE

TURN AROUND TIME:

(1) $\text{Na}_2\text{S}_2\text{O}_3$	(3) COLD
(2) HNO_3/HCl	(4)

PRINT NAME / COMPANY

RECEIVED BY (SIGN)

DATE / TIME

PRINT NAME / COMPANY

RELINQUISHED BY (SIGN)

I-McPherson / CLS B

John

—

Edward D. White


1. *... ..*

10/1/2000

2

3-11-15	4:15
---------	------

class	class
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CONDITIONS / COMMENTS:

☐ OTHER

CLIENT

☐ GREYHOUND☐ GOLDEN STATE☐ **FED X**

SHIPPED VIA

The fact is
C. F. 2.

M04CS000663 09/11

Clinical Laboratory of San Bernardino, Inc.



13 March 2015

Clinical Lab No.: 15C0438

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

Project Name: Standard Analysis
Sub Project: CWTP Non-Comp Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 03/04/15 . 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,

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: CWTP Non-Comp Analysis
Project Manager: Mark Andersen

Work Order: 15C0438
Received: 03/04/15 16:30
Reported: 03/13/15

Reservoir Effluent Site #5 15C0438-01 (Water) Sample Date: 03/04/15 10:51 Sampler: Edward Duvivier

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

Hardness, Total (as CaCO ₃)	Calculated	300	mg/L	6.6		03/11/15	03/11/15	[CALC]	
Ortho-Phosphate (as P)	HACH 8048	0.17	mg/L	0.0067		03/05/15	03/05/15	1510541	
Phosphorus (Total as P)	HACH 8190	0.68	mg/L	0.0067		03/05/15	03/05/15	1510572	

Metals

Calcium (Ca)	EPA 200.7	77	mg/L	1.0		03/11/15	03/11/15	1511284	
Magnesium (Mg)	EPA 200.7	26	mg/L	1.0		03/11/15	03/11/15	1511284	

ND Analyte NOT DETECTED at or above the reporting limit

11/00

Clinical Laboratory of San Bernardino, Inc.

1 Street Battle

Chain of Custody

[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 11, 2015

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

RE: Workorder: E1500574 Lomita Weekly SP3 RUSH

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 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: 23108 - 724411

Page 1 of 4

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Director of Weights and Measures

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South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500574 Lomita Weekly SP3 RUSH

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500574001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	3/4/2015 13:37	3/4/2015 16:00

Collector: Edward DuVivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

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Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500574 Lomita Weekly SP3 RUSH

Lab ID: E1500574001	Date Received: 3/4/2015 16:00	Matrix: Drinking Water
Sample ID: E13-005A	Date Collected: 3/4/2015 13:37	
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	3/10/2015 11:42	GS		240
Manganese	ND ug/L	20.0		1	3/10/2015 11:42	GS		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	5 Unit	5.00		1	3/5/2015 13:35	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]

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 5, 2015

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

RE: Workorder: E1500585 Dist S13-Lomita Bacti Well

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 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: 23119 - 722581

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Director of Weights and Measures

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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: E1500585 Dist S13-Lomita Bacti Well

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500585001	W13-005	W13-005 - 26112 Cypress St., (SP1)	Drinking Water	3/4/2015 13:35	3/4/2015 16:00

Collector: Edward DuVivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

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South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500585 Dist S13-Lomita Bacti Well

Lab ID: E1500585001	Date Received: 3/4/2015 16:00	Matrix: Drinking Water
Sample ID: W13-005	Date Collected: 3/4/2015 13:35	
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
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MICROBIOLOGY

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

Fecal Coliform	ABSENT		1	3/4/2015 16:10	CG
Total Coliform	ABSENT		1	3/4/2015 16:10	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: Brian Aguayo Profile# 2039

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

£15005.55

[illegible]

Set-Up Time: 16:10	Meets Holding Time (24 hrs.): — <input checked="" type="checkbox"/> yes — no	Set-Up By: OG	Read Time: 10:10	Read By: OG
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Reference: "Standard Methods" 20th ed., APHA, AWWA, AND WEF. Method 922.3

Date Collected: 3/4/15

Date/Time Received: 3/4/15 / 1600 By: Z

Date Started: 3.4.15

Date Completed: 3-5-15

Notification Req.: Yes (No) Name of person Notified: _____ Date _____/Time _____

Analyst: Cynthia J. 3-5-15 Date

Supervisor: SX 03/25/2015
Date



County of Los Angeles
Agricultural Commissioner/Weights & Measures
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111012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

Profile# 2039

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

April 7, 2015

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

RE: Workorder: E1500577 Lomita Monthly SP1

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 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: 23111 - 731559

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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: E1500577 Lomita Monthly SP1

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500577001	W13-005	W13-005 - 26112 Cypress St., (SP1)	Drinking Water	3/4/2015 13:35	3/4/2015 16:00

Collector: DuVivier, Eward



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

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<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500577 Lomita Monthly SP1

Lab ID: E1500577001	Date Received: 3/4/2015 16:00	Matrix: Drinking Water
Sample ID: W13-005	Date Collected: 3/4/2015 13:35	
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	179 ug/L	100		1	3/10/2015 11:47	GS		240
Manganese	83.1 ug/L	20.0		1	3/10/2015 11:47	GS		40
WETCHEMISTRY								
Analysis Desc: EPA 300.0			Analytical Method: EPA 300.0					
Nitrate	ND mg/L	2.00	0.200	1	3/6/2015 14:06	RZ		
Nitrate-N	ND mg/L	0.450	0.0500	1	3/6/2015 14:06	RZ		
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	10 Unit	5.00		1	3/5/2015 13:35	LS		

Page: of

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Phone# (562)622-0437 Fax# (562)622-0440

PROFILE# 2201

CHAIN-OF-CUSTODY RECORD

[illegible]

021611



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

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11012 S. Garfield Ave.
South Gate, California 90280
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Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

March 9, 2015

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

RE: Workorder: E1500584 Dist S13-Lomita Bacti

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 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: 23118 - 723021

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



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500584 Dist S13-Lomita Bacti

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500584001	E13-005C	E13-005C - 26122 Cypress St., (SP2-Combined Pressure Eff.)	Drinking Water	3/4/2015 13:36	3/4/2015 16:00

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
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South Gate, California 90280
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Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500584 Dist S13-Lomita Bacti

Lab ID:	E1500584001	Date Received:	3/4/2015 16:00	Matrix:	Drinking Water
Sample ID:	E13-005C	Date Collected:	3/4/2015 13:36		
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	3/4/2015 16:05 JC 500
Analysis Desc: SM 9223 COLILERT 18	Analytical Method: SM 9223 COLILERT 18				
Total Coliform	ABSENT			1	3/4/2015 16:10 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	A-Routine B-Recheck C-Special
2-Distribution System	D-Replacement E-Others

E1500584 Sim Plate

Lab ID#	Smp ID#	Time Collection	Sampling Point	Cl ppm	T	P	Temp °C	Total Coliform/ Colilert	Fecal Coliform Colilert	HPC cfu/mL
<u>-001</u>	<u>E13-005C</u>	<u>13:36</u>	<u>Combined Pressure Effluent (SP2)</u>		<u>1</u>	<u>C</u>	<u>10</u>	<u>ABSENT</u>		<u><2</u>

Set-Up Time: <u>16:10</u>	Meets Holding Time (24 hrs.): <u>✓</u> yes <u> </u> no	Set-Up By: <u>cg</u>	Read Time: <u>10:10</u>	Read By: <u>cg</u>
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Reference: "Standard Methods" 20th ed., APHA, AWWA, AND WEF. Method 9223

Date Collected: 3/4/15 Date/Time Received: 3/4/15 11:00 By: NF

Date Started: 3-4-15 Date Completed: 3-5-15 3-6-15 Sim plate

Notification Req.: Yes (No) Name of person Notified: _____ Date _____ /Time _____

Analyst: Cynthia 3-5-15 Supervisor: SX 03/05/2015
Jose Cardoza 03/06/15 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

CHAIN-OF-CUSTODY RECORD

[illegible]

Appendix B

Methane Monitoring Log



**CITY OF LOMITA
CPWF HANDHELD METHANE LOG READINGS**

March 2015			
Date	Time	Methane Handheld	Comments
3/1/2014			Sunday
3/2/2014	3:15 PM	CH4-0% Oxy-20.7%	
3/3/2014	2:30 PM	CH4-0% Oxy-20.9%	
3/4/2014	2:30 PM	CH4-0% Oxy-20.9%	
3/5/2014	3:30 PM	CH4-1% Oxy-20.8%	
3/6/2014	12:30 PM	CH4-0% Oxy-20.7%	
3/7/2014			Saturday
3/8/2014			Sunday
3/9/2014	2:30 PM	CH4-0% Oxy-20.5%	
3/10/2014			
3/11/2014	2:45 PM	CH4-2% Oxy-20.8%	
3/12/2014	2:15 PM	CH4-0% Oxy-20.7%	
3/13/2014			Friday - City Hall Closed
3/14/2014			Saturday
3/15/2014			Sunday
3/16/2014	3:25 PM	CH4-0% Oxy-20.3%	
3/17/2014	3:15 PM	CH4-0% Oxy-20.6%	
3/18/2014	3:15 PM	CH4-2% Oxy-20.4%	
3/19/2014	3:15 PM	CH4-0% Oxy-20.4%	
3/20/2014	1:15 PM	CH4-0% Oxy-20.5%	
3/21/2014			Saturday
3/22/2014			Sunday
3/23/2014	2:00 PM	CH4-0% Oxy-20.5%	
3/24/2014	3:15 PM	CH4-0% Oxy-20.5%	
3/25/2014	2:45 PM	CH4-1% Oxy-20.6%	
3/26/2014	2:00 PM	CH4-0% Oxy-20.5%	
3/27/2014			Friday - City Hall Closed
3/28/2014			Saturday
3/29/2014			Sunday
3/30/2014	2:45 PM	CH4-0% Oxy-20.6%	
3/31/2014	3:30 PM	CH4-0% Oxy-20.3%	

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