

CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

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May 2018

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**CITY COUNCIL**

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



**ADMINISTRATION**

RYAN SMOOT  
CITY MANAGER

June 11, 2018

Mr. Dmitry Ginzburg, 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 30, 2018.

Dear Mr. Ginzburg,

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 2018.

If you should have any questions or concerns, please contact me at 310-325-7110 Ext. 310.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Andersen", is written over a large, stylized, light-colored circular mark.

Mark Andersen  
Field Operations Manager

## A. BACKGROUND

On March 15, 2013, the City of Lomita received conditional approval from the Department of Public Health (DPH) to distribute blended water from the Cypress Water Production Facility (CWPF) Well No. 5 to the City's customers.

The CWPF is an iron-manganese greensand filtration treatment system designed to remove primarily iron, manganese, and color. The CWPF was recently modified to enable aeration and blending with Metropolitan Water District (MWD) imported water to address the aesthetic secondary issues of Total Dissolved Solids (TDS), Hardness (as Calcium Carbonate), and Taste/Odor.

The CWPF came online on April 1, 2013. The first week of operations from April 1 to April 5, 2013 was utilized for conducting routine startup activities. The distribution of blended water to the City's residents began on April 5, 2013.

## B. WELL PRODUCTION

The CWPF operated continuously during the month of May 2018 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 429 gpm and 522 gpm from MWD. The blend ratio for month was 46% Well water and 54% MWD water. See Table 1 below for production totals for the month of May 2018.

**Table 1. Monthly Production Totals.**

	<b>Production for May 2018</b>		
Well No. 5	47.20	ac-ft	15,379,568 (gallons)
MWD	55.09	ac-ft	17,950,000 (gallons)
Combined Total	102.29	ac-ft	33,329,568 (gallons)
Daily	3.93	ac-ft/day	1,281,906 (gallons/day)

## C. OPERATIONAL INTERRUPTIONS

During the month of May 2018, the CWPF was placed offline for approximately five (5) days and water was supplied by the City's West Basin 8 MWD interconnection with no interruption of service to customers. Routine and preventive maintenance of equipment was performed during this time. No major planned operational interruptions are anticipated for the following month.

## D. SAMPLE LOCATIONS

Compliance monitoring is performed at the following sample locations: SP1, SP2, SP3, SP5, and SP6. The SP1 sample location is the raw well water sample location. The SP2 sample location is on the effluent side of the greensand filter (before ammonia injection or full chloramination). The SP3 sample location is downstream of the greensand filter after full chloramination and the static mixer before entering the reservoir. The SP5 sample location is the reservoir effluent sample location before entering the distribution system. The SP6 sample location is the MWD source sample location before blending occurs.



## **E. WATER QUALITY MONITORING**

All water quality monitoring analyses were performed by laboratories certified by the Department of Health's Environmental Laboratory Accreditation Branch (ELAB). The CWPF has been continuously monitored, maintained and inspected, per the CWPF Operations Monitoring and Maintenance Plan. A brief discussion of the laboratory and/or monitoring results is provided below. Refer to Appendix A for laboratory results.

### **E1. IRON, MANGANESE AND COLOR**

See Table 2 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color for raw water (SP1) was below the MCL level. Iron for raw water was below the MCL level and Manganese was above the MCL level for the month. Iron and Manganese levels before entering the reservoir (SP3) show non-detect, indicating the greensand filtration system remains highly effective.

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

Daily free chlorine residuals were monitored at SP2, SP3, SP4 and SP5. Daily total chlorine residuals were monitored at SP3, SP4 and SP5. Free chlorine and total chlorine residuals, at all respective sample points, were monitored using a combination of continuous chlorine analyzers and SCADA. See Table 3 below for a weekly summary of results.

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

See Table 4 below for a summary of the results for the monitoring of Total Dissolved Solids (TDS), Odor (as measured by the Threshold Odor No. - T.O.N.), Total Hardness as Calcium Carbonate, and Methane levels in water at three sample locations SP1, SP5 and SP6.

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

The sampling results indicate the TDS levels of the effluent blended water to be on average 622.0 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 820 mg/L and 270 mg/L, respectively.

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

The sampling results for the month indicate the hardness levels of the blended water to be on average 230 mg/L. This hardness level is within the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the water distribution system. The

City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

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

### **E3-3 DISSOLVED METHANE (IN WATER)**

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.27 mg/L.

### **E3-4 METHANE (IN AIR)**

The methane levels in the reservoir headspace are monitored daily by staff using a handheld device. These readings have consistently read non-detect to low concentrations for methane in air. Available methane hand held monitoring instruments can only detect levels of 1% Lower Explosive Limit (LEL) or greater. The handheld methane readings during the month were below the 50,000 ppm LEL. See attached methane log for the month of May 2018 in Appendix B.

### **E3-5 ODOR**

The odor levels at the CWPF effluent averaged 2.2 units for the month.

## **E4. NITRIFICATION MONITORING**

Weekly nitrification sampling was performed during the month of May 2018 following the City's Nitrification Monitoring Plan. Refer to Appendix C for results.

## F. TABLES

Table 2. 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
5/2/2018											ND	300	ND	50	7.5	15
5/9/2018	210	300	150	50	7.5	15	A	A	ND	500	ND	300	ND	50	ND	15
5/16/2018											ND	300	ND	50	5	15
5/23/2018											ND	300	ND	50	ND	15
5/30/2018											ND	300	ND	50	5	15

**Notes:**

Monthly- Orange; Weekly- Yellow

A – Absent

ND – Non Detect

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

Table 3. Monitoring Results for Free and Total Chlorine at SP2, SP3, SP4 and SP5 Sample Locations.

Date, week of	SP2	SP3			SP4			SP5		
	Free Cl	Free Cl	Total Cl	Total NH <sub>3</sub>	Free Cl	Total Cl	Total NH <sub>3</sub>	Free Cl	Total Cl	Total NH <sub>3</sub>
5/2/2018	10.43	1.47	8.67	0.86	1.13	5.77	0.74	0.25	3.77	0.61
5/9/2018	8.10	1.56	7.90	0.74	0.63	4.33	0.64	0.08	3.47	0.61
5/16/2018	9.57	2.13	8.13	1.02	1.20	6.13	0.70	0.20	2.79	0.54
5/23/2018	8.35	2.04	7.88	0.89	0.85	5.19	0.75	0.32	3.69	0.53
5/30/2018	6.76	0.92	5.73	0.82	0.56	4.62	0.64	0.06	3.34	0.67

Table 4. 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	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 180 - 250 mg/L	SP1 - Raw Well Water	SP5 - Reservoir Effluent
5/2/2018			540	500-750	3	3						0.19
5/9/2018	820	270	500	500-750	2	3	390	120	230	180-250	2.7	0.29
5/16/2018			580	500-750	2	3						0.24
5/23/2018			760	500-750	2	3						0.33
5/30/2018			730	500-750	2	3						0.31
<b>Average</b>			<b>622</b>	500-750	<b>2.2</b>	3						<b>0.27</b>

**Notes:**

Monthly- Orange; Weekly- Yellow

ppm – parts per million

mg/L – milligram per liter

T.O.N. - Threshold Odor Number

TDS - Total Dissolved Solids

Hardness - As total CaCO<sub>3</sub>

Methane (Water) - Methane dissolved in water



**Cypress Water Production Facility**  
**City of Lomita; System No. 1910073**

Notes: <sup>1</sup>Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO<sub>3</sub> Goal-180-250 ppm.

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

Other Notes/Comments: (1) See comments on the last column

## **APPENDIX A**

### LABORATORY RESULTS

# *Clinical Laboratory of San Bernardino, Inc.*



18 May 2018

Clinical Lab No.: 18E0344

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

Project Name: Standard Analysis  
Sub Project: CWPF 1st Week of May, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 05/02/18 . 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 1st Week of May, 2018 Compliance Sampling  
Project Manager: Mark Andersen  
Work Order: 18E0344  
Received: 05/02/18 15:00  
Reported: 05/18/18

**Reservoir Influent Site #3** **18E0344-01 (Water)** **Sample Date:** 05/02/18 8:30 **Sampler:** David Huerta

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

<b>Cl Res Total (Field)</b>	Field	<b>8.3</b>		N/A	mg/L	05/02/18	05/02/18	1818135	
<b>pH (Field)</b>	Field	<b>7.65</b>		N/A	pH Units	05/02/18	05/02/18	1818135	
<b>Temperature (Field)</b>	Field	<b>20.2</b>		N/A	°C	05/02/18	05/02/18	1818135	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>7.5</b>	3.0	15	Color Units	05/02/18	05/02/18	1818154	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/07/18	05/07/18	1819006	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/07/18	05/07/18	1819006	

**Reservoir Effluent Site #5** **18E0344-02 (Water)** **Sample Date:** 05/02/18 8:20 **Sampler:** David Huerta

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

<b>Cl Res Total (Field)</b>	Field	<b>4</b>		N/A	mg/L	05/02/18	05/02/18	1818135	
<b>pH (Field)</b>	Field	<b>7.84</b>		N/A	pH Units	05/02/18	05/02/18	1818135	
<b>Temperature (Field)</b>	Field	<b>18.6</b>		N/A	°C	05/02/18	05/02/18	1818135	

## Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	05/02/18	05/03/18	1818140	
E. Coli	SM 9223	A		N/A	P/A	05/02/18	05/03/18	1818140	
Plate Count	SM9215B	ND	1	500	CFU/ml	05/02/18	05/04/18	1818196	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>5.0</b>	3.0	15	Color Units	05/02/18	05/02/18	1818154	
<b>Odor Threshold</b>	EPA 140.1-M	<b>3</b>	1	3	TON	05/02/18	05/02/18	1818154	

## General Chemical Analyses

Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	05/03/18	05/03/18	1818129	
<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>540</b>	5.0	1000	mg/L	05/09/18	05/11/18	1819086	

ND Analyte NOT DETECTED at or above the reporting limit





May 11, 2018

Clinical Laboratory of San Bernardino  
ATTN: Stu Styles  
21881 Barton Rd.  
Grand Terrace, CA 92313



LA Cert #04140  
EPA Methods TO3, TO14A, TO15, 25C/3C,  
RSK-175

TX Cert T104704450-14-6  
EPA Methods TO14A, TO15

UT Cert CA0133332015-3  
EPA Methods TO3, TO14A, TO15, RSK-175

### LABORATORY TEST RESULTS

Project Reference: 18E0344  
Lab Number: J050401-01

Enclosed are results for sample(s) received 5/04/18 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

#### Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**18E0344**

2 of 4  
J050401

J050401-01

**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:**

Air Technology Labs  
18501 East Gale Avenue Suite 130  
City of Industry, CA 91748  
Phone : (626) 964-4032  
Fax:

Please email results to Project Manager: Stu Styles

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

California EDT transfer those samples with PS codes provided [ ] Yes [x] No  
Water Trax Upload Client: [ ] Yes [x] No

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

Subcontract Comments:

**Analysis**

**Comments**

Sample ID: Reservoir Effluent Site #5 / 18E0344-02

Sampled: 05/02/18 08:20 PS Code:  
Water

WTX ID:

61

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

1c

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Becky  
05/03/18 15:30

Den Chaparral  
5/4/18 0845

Den Chaparral  
5/4/18 0938

Don Jy  
5/4/18 0938

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 18E0344  
**Date Received:** 05/04/18  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

<b>Lab No.:</b>	<b>J050401-01</b>						
<b>Client Sample I.D.:</b>	<b>Reservoir Effluent</b>						
	<b>Site #5/</b>						
	<b>18E0344-02</b>						
<b>Date/Time Sampled:</b>	<b>5/2/18 8:20</b>						
<b>Date/Time Analyzed:</b>	<b>5/10/18 16:25</b>						
<b>QC Batch No.:</b>	<b>180510GC8A2</b>						
<b>Analyst Initials:</b>	<b>AS</b>						
<b>Dilution Factor:</b>	<b>1.0</b>						
<b>ANALYTE</b>	<b>Result</b>	<b>RL</b>					
	<b>mg/L</b>	<b>mg/L</b>					
<b>Methane</b>	<b>0.19</b>	<b>0.0010</b>					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

*Mark Johnson*  
 Mark Johnson  
 Operations Manager

Date \_\_\_\_\_

*5/11/18*

The cover letter is an integral part of this analytical report



QC Batch No.: 180510GC8A2  
Matrix: Water  
Units: mg/L

## QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		5/10/18 16:12		5/10/18 15:45		5/10/18 15:58			
Analyst Initials:		AS		AS		AS			
Datafile:		10may019		10may017		10may018			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	119	70-130%	114	70-130%	3.9	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson  
Operations Manager

Date: \_\_\_\_\_

  
5/11/18

The cover letter is an integral part of this analytical report.



[illegible]

# *Clinical Laboratory of San Bernardino, Inc.*



29 May 2018

Clinical Lab No.: 18E1060

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

Project Name: Standard Analysis  
Sub Project: CWPF Monthly Compliance Samples, 2nd Wk of May

Enclosed are the results of the analyses for samples received at the laboratory on 05/09/18 . 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 Samples, 2nd Wk of May  
Project Manager: Mark Andersen

Work Order: 18E1060  
Received: 05/09/18 14:00  
Reported: 05/29/18

## Raw Water Site #1

18E1060-01 (Water)

Sample Date: 05/09/18 7:55 Sampler: Patrick McCue

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

Cl Res Total (Field)	Field	0		N/A	mg/L	05/09/18	05/09/18	1819125	
pH (Field)	Field	7.67		N/A	pH Units	05/09/18	05/09/18	1819125	
Temperature (Field)	Field	22.3		N/A	°C	05/09/18	05/09/18	1819125	

### Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	05/09/18	05/10/18	1819127	
E. Coli	SM 9223	A		N/A	P/A	05/09/18	05/10/18	1819127	
Plate Count	SM9215B	10	1	500	CFU/ml	05/09/18	05/11/18	1819183	

### General Physical Analyses

Apparent Color	SM 2120BM	7.5	3.0	15	Color Units	05/09/18	05/09/18	1819130	
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### General Chemical Analyses

Hardness, Total (as CaCO3)	Calculated	390	9.1	N/A	mg/L	05/22/18	05/22/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	820	5.0	1000	mg/L	05/16/18	05/18/18	1820085	

### Metals

Calcium (Ca)	EPA 200.7	100	2.0	N/A	mg/L	05/22/18	05/22/18	1820174	
Iron (Fe)	EPA 200.7	210	100	300	ug/L	05/16/18	05/16/18	1820078	
Magnesium (Mg)	EPA 200.7	34	1.0	N/A	mg/L	05/18/18	05/18/18	1820140	
Manganese (Mn)	EPA 200.7	150	20	50	ug/L	05/16/18	05/16/18	1820078	

## Filter Effluent (Free Chlorine) Site #2

18E1060-02 (Water)

Sample Date: 05/09/18 8:28 Sampler: Patrick McCue

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

Cl Res Total (Field)	Field	8.2		N/A	mg/L	05/09/18	05/09/18	1819125	
pH (Field)	Field	7.65		N/A	pH Units	05/09/18	05/09/18	1819125	
Temperature (Field)	Field	22		N/A	°C	05/09/18	05/09/18	1819125	

### Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	05/09/18	05/10/18	1819127	
E. Coli	SM 9223	A		N/A	P/A	05/09/18	05/10/18	1819127	
Plate Count	SM9215B	ND	1	500	CFU/ml	05/09/18	05/11/18	1819183	

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: CWPf Monthly Compliance Samples, 2nd Wk of May  
Project Manager: Mark Andersen

Work Order: 18E1060  
Received: 05/09/18 14:00  
Reported: 05/29/18

**Filter Effluent (Total Chlorine) Site #3**      **18E1060-03 (Water)**      **Sample Date:** 05/09/18 8:30      **Sampler:** Patrick McCue

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

<b>Cl Res Total (Field)</b>	Field	<b>7.9</b>		N/A	mg/L	05/09/18	05/09/18	1819125	
<b>pH (Field)</b>	Field	<b>7.71</b>		N/A	pH Units	05/09/18	05/09/18	1819125	
<b>Temperature (Field)</b>	Field	<b>22.4</b>		N/A	°C	05/09/18	05/09/18	1819125	

## General Physical Analyses

Apparent Color	SM 2120BM	ND	3.0	15	Color Units	05/09/18	05/09/18	1819130	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/16/18	05/16/18	1820078	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/16/18	05/16/18	1820078	

**Zone #2 Site #6**      **18E1060-04 (Water)**      **Sample Date:** 05/09/18 8:32      **Sampler:** Patrick McCue

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

<b>Cl Res Total (Field)</b>	Field	<b>2.52</b>		N/A	mg/L	05/09/18	05/09/18	1819125	
<b>pH (Field)</b>	Field	<b>8.65</b>		N/A	pH Units	05/09/18	05/09/18	1819125	
<b>Temperature (Field)</b>	Field	<b>18.1</b>		N/A	°C	05/09/18	05/09/18	1819125	

## General Chemical Analyses

<b>Hardness, Total (as CaCO3)</b>	Calculated	<b>120</b>	6.6	N/A	mg/L	05/18/18	05/18/18	[CALC]	
<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>270</b>	5.0	1000	mg/L	05/16/18	05/18/18	1820085	

## Metals

<b>Calcium (Ca)</b>	EPA 200.7	<b>27</b>	1.0	N/A	mg/L	05/18/18	05/18/18	1820140	
<b>Magnesium (Mg)</b>	EPA 200.7	<b>12</b>	1.0	N/A	mg/L	05/18/18	05/18/18	1820140	



# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: CWPf Monthly Compliance Samples, 2nd Wk of May  
Project Manager: Mark Andersen

Work Order: 18E1060  
Received: 05/09/18 14:00  
Reported: 05/29/18

**Reservoir Effluent Site #5**      **18E1060-05 (Water)**      **Sample Date:** 05/09/18 8:45      **Sampler:** Patrick McCue

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

<b>Cl Res Total (Field)</b>	Field	<b>3.76</b>		N/A	mg/L	05/09/18	05/09/18	1819125	
<b>pH (Field)</b>	Field	<b>8.04</b>		N/A	pH Units	05/09/18	05/09/18	1819125	
<b>Temperature (Field)</b>	Field	<b>18.7</b>		N/A	°C	05/09/18	05/09/18	1819125	

## Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	05/09/18	05/10/18	1819127	
E. Coli	SM 9223	A		N/A	P/A	05/09/18	05/10/18	1819127	
Plate Count	SM9215B	ND	1	500	CFU/ml	05/09/18	05/11/18	1819183	

## General Physical Analyses

<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	05/09/18	05/09/18	1819130	
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## General Chemical Analyses

<b>Hardness, Total (as CaCO3)</b>	Calculated	<b>230</b>	6.6	N/A	mg/L	05/18/18	05/18/18	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	05/10/18	05/10/18	1819119	
<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>500</b>	5.0	1000	mg/L	05/16/18	05/18/18	1820085	

## Metals

<b>Calcium (Ca)</b>	EPA 200.7	<b>60</b>	1.0	N/A	mg/L	05/18/18	05/18/18	1820140	
<b>Magnesium (Mg)</b>	EPA 200.7	<b>20</b>	1.0	N/A	mg/L	05/18/18	05/18/18	1820140	

ND Analyte NOT DETECTED at or above the reporting limit



May 18, 2018

Clinical Laboratory of San Bernardino  
ATTN: Stu Styles  
21881 Barton Rd.  
Grand Terrace, CA 92313



LA Cert #04140  
EPA Methods TO3, TO14A, TO15, 25C/3C,  
RSK-175

TX Cert T104704450-14-6  
EPA Methods TO14A, TO15

UT Cert CA0133332015-3  
EPA Methods TO3, TO14A, TO15, RSK-175

### LABORATORY TEST RESULTS

Project Reference: 18E1060  
Lab Number: J051101-01/02

Enclosed are results for sample(s) received 5/11/18 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

#### Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**18E1060**

J051101-01/02

**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:**

Air Technology Labs  
18501 East Gale Avenue Suite 130  
City of Industry, CA 91748  
Phone : (626) 964-4032  
Fax:

Please email results to Project Manager: Stu Styles

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

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

Water Trax Upload Client: [ ] Yes [x] No

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

Subcontract Comments:

**Analysis****Comments****Sample ID: Raw Water Site #1 / 18E1060-01****Sampled: 05/09/18 07:55 PS Code:**  
**Water****WTX ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

**Sample ID: Reservoir Effluent Site #5 / 18E1060-05****Sampled: 05/09/18 08:45 PS Code:**  
**Water****WTX ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 18E1060  
**Date Received:** 05/11/18  
**Matrix:** Water  
**Reporting Units:** mg/L

**RSK175**

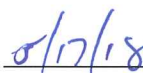
Lab No.:	J051101-01	J051101-02		
Client Sample I.D.:	Raw Water Site #1 / 18E1060-01	Reservoir Effluent Site #5 / 18E1060-05		
Date/Time Sampled:	5/9/18 7:55	5/9/18 8:45		
Date/Time Analyzed:	5/16/18 13:08	5/16/18 12:53		
QC Batch No.:	180516GC8A1	180516GC8A1		
Analyst Initials:	AS	AS		
Dilution Factor:	1.0	1.0		
ANALYTE	Result mg/L	RL mg/L	Result mg/L	RL mg/L
Methane	2.7	0.0010	0.29	0.0010

ND = Not Detected (below RL)  
 RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

  
 Mark Johnson  
 Operations Manager

Date



The cover letter is an integral part of this analytical report



QC Batch No.: 180516GC8A1  
Matrix: Water  
Units: mg/L

## QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		5/16/18 12:16		5/16/18 11:37		5/16/18 11:58			
Analyst Initials:		AS		AS		AS			
Datafile:		16may003		16may001		16may002			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	119	70-130%	123	70-130%	2.6	<30

PQL = Practical Quantitation Limit

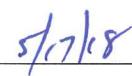
ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

  
Mark J. Johnson  
Operations Manager

Date: \_\_\_\_\_

  
5/17/18

The cover letter is an integral part of this analytical report.



**AirTECHNOLOGY Laboratories, Inc.**

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

3/3

18E1060

Client		City of Lomita		System Number		Analysis Requested													
Address		24373 Walnut Avenue		1910073															
Phone #		Lomita, CA 91717		Destination Laboratory															
Fax #		(310)903-2243		[X] Clinical Laboratory															
Project		Standard Analysis		RWQCB Compliance															
Sub Project		CWPF Monthly Compliance Samples;		YES															
Comments		2nd week of May, 2018		ELAP #															
Sampled by		Patrick McCue		1088															
Date	Time	Sample Identification	Matrix	Type	Preserv	Temp.	pH	Total Chlorine	Total Dissolved Solids	Iron & Manganese	E. Coli	Total Coliform	Heterotrophic Plate Count	Nitrate	Color	Odor	Methane (WATER) (RSK175)	Hardness	
5/9/2018	0755	Raw Water Site #1	GW	IW	N/A	22.3	7.67	0	N	N	X	X			X				
5/9/2018	0755	Raw Water Site #1	GW	IW	1, 2, 7												X		
5/9/2018	0828	Filter Effluent (Free Chlorine) Site#2	DW	IW	1, 7	22.0	7.65	8.2			X	X							
5/9/2018	0830	Filter Effluent (Total Chlorine) Site#3	DW	IW	N/A	22.4	7.71	7.9		N					X				
5/9/2018	0832	Zone #2 Site #6	DW	ID	N/A	18.1	8.65	2.52	N								X		
5/9/2018	0845	Reservoir Effluent Site #5	DW	ID	1, 7	18.7	8.04	3.76											
5/9/2018	0835	Reservoir Effluent Site #5	DW	ID	N/A				X						X		X		
5/9/2018	0835	Reservoir Effluent Site #5	DW	ID	2, 7												X		
Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl (5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Cold (8) Other:																			
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company											
Patrick McCue		Patrick McCue / City of Lomita		5/9/2018 11:20		J. Lucena / CSB		J. Lucena / CSB											
J. Lucena / CSB		J. Lucena / CSB		5/9/2018 5:00		J. Lucena / CSB		J. Lucena / CSB											
Comments: Samples received: ( ) On ice ( ) Custody seals Temp 5.7 ( ) F X C																			
Shipped Via		Fed X		Golden State		UPS		Client		Other		Page 1 of 1							



# *Clinical Laboratory of San Bernardino, Inc.*



01 June 2018

Clinical Lab No.: 18E1623

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

Project Name: Standard Analysis  
Sub Project: CWPF 3rd Week of May, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 05/16/18 . 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 3rd Week of May, 2018 Compliance Sampling  
Project Manager: Mark Andersen  
Work Order: 18E1623  
Received: 05/16/18 14:30  
Reported: 06/01/18

**Reservoir Influent Site #3** **18E1623-01 (Water)** **Sample Date:** 05/16/18 8:00 **Sampler:** David Huerta

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

<b>Cl Res Total (Field)</b>	Field	<b>9.8</b>		N/A	mg/L	05/16/18	05/16/18	1820119	
<b>pH (Field)</b>	Field	<b>7.75</b>		N/A	pH Units	05/16/18	05/16/18	1820119	
<b>Temperature (Field)</b>	Field	<b>21.3</b>		N/A	°C	05/16/18	05/16/18	1820119	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>5.0</b>	3.0	15	Color Units	05/16/18	05/16/18	1820151	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/23/18	05/24/18	1821082	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/23/18	05/24/18	1821082	

**Reservoir Effluent Site #5** **18E1623-02 (Water)** **Sample Date:** 05/16/18 8:20 **Sampler:** David Huerta

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

<b>Cl Res Total (Field)</b>	Field	<b>3.1</b>		N/A	mg/L	05/16/18	05/16/18	1820119	
<b>pH (Field)</b>	Field	<b>8.01</b>		N/A	pH Units	05/16/18	05/16/18	1820119	
<b>Temperature (Field)</b>	Field	<b>19.1</b>		N/A	°C	05/16/18	05/16/18	1820119	

## Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	05/16/18	05/17/18	1820129	
E. Coli	SM 9223	A		N/A	P/A	05/16/18	05/17/18	1820129	
Plate Count	SM9215B	ND	1	500	CFU/ml	05/16/18	05/18/18	1820175	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	ND	3.0	15	Color Units	05/16/18	05/16/18	1820151	
<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	05/16/18	05/16/18	1820151	

## General Chemical Analyses

Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	05/16/18	05/17/18	1820077	
<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>580</b>	5.0	1000	mg/L	05/23/18	05/25/18	1821068	

ND Analyte NOT DETECTED at or above the reporting limit





May 25, 2018

Clinical Laboratory of San Bernardino  
ATTN: Stu Styles  
21881 Barton Rd.  
Grand Terrace, CA 92313



LA Cert #04140  
EPA Methods TO3, TO14A, TO15, 25C/3C,  
RSK-175

TX Cert T104704450-14-6  
EPA Methods TO14A, TO15

UT Cert CA0133332015-3  
EPA Methods TO3, TO14A, TO15, RSK-175

### LABORATORY TEST RESULTS

Project Reference: 18E1623  
Lab Number: J051706-01

Enclosed are results for sample(s) received 5/17/18 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

#### Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**18E1623**

J051706  
Page 2 of 4

J051706-01

**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:**

Air Technology Labs  
18501 East Gale Avenue Suite 130  
City of Industry, CA 91748  
Phone : (626) 964-4032  
Fax:

Please email results to Project Manager: Stu Styles

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

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

Water Trax Upload Client: [ ] Yes [x] No

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

Subcontract Comments:

6°C

**Analysis**

**Comments**

Sample ID: Reservoir Effluent Site #5 / 18E1623-02

Sampled: 05/16/18 08:20 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

*BS Styles* 05/17/18 07:40 *Michael J. J. J.* 5/17/18 8:00  
*Michael J. J. J.* 5/17/18 11:08 *J. J. J.* 5/17/18 11:08

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 18E1623  
**Date Received:** 05/17/18  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

<b>Lab No.:</b>	J051706-01						
<b>Client Sample I.D.:</b>	Reservoir Effluent Site #5 / 18E1623-02						
<b>Date/Time Sampled:</b>	5/16/18 8:20						
<b>Date/Time Analyzed:</b>	5/24/18 15:24						
<b>QC Batch No.:</b>	180524GC8A2						
<b>Analyst Initials:</b>	AS						
<b>Dilution Factor:</b>	1.0						
<b>ANALYTE</b>	<b>Result mg/L</b>	<b>RL mg/L</b>					
Methane	0.24	0.0010					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 

Mark Johnson  
Operations Manager

Date

5-25-18

The cover letter is an integral part of this analytical report



QC Batch No.: 180524GC8A2  
Matrix: Water  
Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

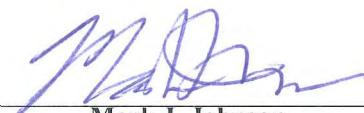
Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		5/24/18 15:11		5/24/18 14:44		5/24/18 14:58			
Analyst Initials:		AS		AS		AS			
Datafile:		24MAY026		24MAY024		24MAY025			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	99	70-130%	105	70-130%	5.5	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Operations Manager

Date:

5-25-18

The cover letter is an integral part of this analytical report.



AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

$$\frac{3}{1}$$

18E1623

[illegible]

# *Clinical Laboratory of San Bernardino, Inc.*



08 June 2018

Clinical Lab No.: 18E2169

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

Project Name: Standard Analysis  
Sub Project: CWPF 4th Week of May, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 05/23/18 . 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 4th Week of May, 2018 Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 18E2169  
Received: 05/23/18 15:00  
Reported: 06/08/18

**Reservoir Influent Site #3** **18E2169-01 (Water)** **Sample Date:** 05/23/18 7:55 **Sampler:** Not Listed

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

<b>Cl Res Total (Field)</b>	Field	<b>7.8</b>		N/A	mg/L	05/23/18	05/23/18	1821135	
<b>pH (Field)</b>	Field	<b>7.59</b>		N/A	pH Units	05/23/18	05/23/18	1821135	
<b>Temperature (Field)</b>	Field	<b>22</b>		N/A	°C	05/23/18	05/23/18	1821135	

## General Physical Analyses

Apparent Color	SM 2120BM	ND	3.0	15	Color Units	05/23/18	05/23/18	1821158	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/30/18	05/30/18	1822059	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/30/18	05/30/18	1822059	

**Reservoir Effluent Site #5** **18E2169-02 (Water)** **Sample Date:** 05/23/18 8:30 **Sampler:** Not Listed

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

<b>Cl Res Total (Field)</b>	Field	<b>3.9</b>		N/A	mg/L	05/23/18	05/23/18	1821135	
<b>pH (Field)</b>	Field	<b>7.8</b>		N/A	pH Units	05/23/18	05/23/18	1821135	
<b>Temperature (Field)</b>	Field	<b>19.5</b>		N/A	°C	05/23/18	05/23/18	1821135	

## General Physical Analyses

Apparent Color	SM 2120BM	ND	3.0	15	Color Units	05/23/18	05/23/18	1821158	
<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	05/23/18	05/23/18	1821158	

## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>760</b>	5.0	1000	mg/L	05/30/18	05/31/18	1822066	
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ND Analyte NOT DETECTED at or above the reporting limit





June 1, 2018

Clinical Laboratory of San Bernardino  
ATTN: Stu Styles  
21881 Barton Rd.  
Grand Terrace, CA 92313



LA Cert #04140  
EPA Methods TO3, TO14A, TO15, 25C/3C,  
RSK-175

TX Cert T104704450-14-6  
EPA Methods TO14A, TO15

UT Cert CA0133332015-3  
EPA Methods TO3, TO14A, TO15, RSK-175

### LABORATORY TEST RESULTS

Project Reference: 18E2169  
Lab Number: J052403-01

Enclosed are results for sample(s) received 5/24/18 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

#### Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.



SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino  
18E2169

J052403-01

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:

Air Technology Labs  
18501 East Gale Avenue Suite 130  
City of Industry, CA 91748  
Phone : (626) 964-4032  
Fax:

Please email results to Project Manager: Stu Styles

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

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

Water Trax Upload Client: [ ] Yes [x] No

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

Subcontract Comments:

Analysis

Comments

Sample ID: Reservoir Effluent Site #5 / 18E2169-02

Sampled: 05/23/18 08:30 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

3.0

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 18E2169  
**Date Received:** 05/24/18  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

Lab No.:	J052403-01						
Client Sample I.D.:	Reservoir Effluent Site #5 / 18E2169-02						
Date/Time Sampled:	5/23/18 8:30						
Date/Time Analyzed:	5/29/18 13:57						
QC Batch No.:	180529GC8A1						
Analyst Initials:	AS						
Dilution Factor:	1.0						
ANALYTE	Result mg/L	RL mg/L					
Methane	0.33	0.0010					

ND = Not Detected (below RL)  
 RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

*Mark Johnson*  
 Mark Johnson  
 Operations Manager

Date 6/1/18

The cover letter is an integral part of this analytical report



QC Batch No.: 180529GC8A1  
Matrix: Water  
Units: mg/L

## QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		5/29/18 9:03		5/29/18 9:16		5/29/18 9:30			
Analyst Initials:		AS		AS		AS			
Datafile:		29may002		29may003		29may004			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	112	70-130%	116	70-130%	3.8	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: \_\_\_\_\_

Mark J. Johnson  
Operations Manager

Date: \_\_\_\_\_

The cover letter is an integral part of this analytical report.



**AirTECHNOLOGY Laboratories, Inc.**

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

$$\frac{3}{\phi}$$

18E2169

[illegible]

# *Clinical Laboratory of San Bernardino, Inc.*



06 June 2018

Clinical Lab No.: 18E2658

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

Project Name: Standard Analysis  
Sub Project: CWPF 5th Week of May, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 05/30/18 . 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.



<b>Lomita, City of</b> 24373 Walnut Avenue Lomita CA, 91717	Project: Standard Analysis Sub Project: CWPf 5th Week of May, 2018 Compliance Sampling Project Manager: Mark Andersen	Work Order: 18E2658 Received: 05/30/18 15:00 Reported: 06/06/18
---	---	---

**Reservoir Influent Site #3**                      **18E2658-01 (Water)**                      **Sample Date:** 05/30/18 7:10                      **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>5.73</b>		N/A	mg/L	05/30/18	05/30/18	1822099	
<b>pH (Field)</b>	Field	<b>7.8</b>		N/A	pH Units	05/30/18	05/30/18	1822099	
<b>Temperature (Field)</b>	Field	<b>22.2</b>		N/A	°C	05/30/18	05/30/18	1822099	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>5.0</b>	3.0	15	Color Units	05/30/18	05/30/18	1822134	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/31/18	05/31/18	1822098	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/31/18	05/31/18	1822098	

**Reservoir Effluent Site #5**                      **18E2658-02 (Water)**                      **Sample Date:** 05/30/18 7:20                      **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>3.39</b>		N/A	mg/L	05/30/18	05/30/18	1822099	
<b>pH (Field)</b>	Field	<b>8</b>		N/A	pH Units	05/30/18	05/30/18	1822099	
<b>Temperature (Field)</b>	Field	<b>20.6</b>		N/A	°C	05/30/18	05/30/18	1822099	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	ND	3.0	15	Color Units	05/30/18	05/30/18	1822134	
<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	05/30/18	05/30/18	1822134	

## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>730</b>	5.0	1000	mg/L	05/31/18	06/01/18	1822110	
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ND                      Analyte NOT DETECTED at or above the reporting limit





June 7, 2018

Clinical Laboratory of San Bernardino  
ATTN: Stu Styles  
21881 Barton Rd.  
Grand Terrace, CA 92313



LA Cert #04140  
EPA Methods TO3, TO14A, TO15, 25C/3C,  
RSK-175

TX Cert T104704450-14-6  
EPA Methods TO14A, TO15

UT Cert CA0133332015-3  
EPA Methods TO3, TO14A, TO15, RSK-175

### LABORATORY TEST RESULTS

Project Reference: 18E2658  
Lab Number: J053104-01

Enclosed are results for sample(s) received 5/31/18 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

#### Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson", is written over a blue wavy line.

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**18E2658**

J053104-01

**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:**

Air Technology Labs  
18501 East Gale Avenue Suite 130  
City of Industry, CA 91748  
Phone : (626) 964-4032  
Fax:

Please email results to Project Manager: Stu Styles

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

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

Water Trax Upload Client: [ ] Yes [x] No

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

Subcontract Comments:

**Analysis**

**Comments**

Sample ID: Reservoir Effluent Site #5 / 18E2658-02

Sampled: 05/30/18 07:20 PS Code:  
Water

WTX ID:

-01  
Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

2°C

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

BJ sty 05/31/18 07:20

Michael Salazar 5/31/18 11:49

Michael Salazar 5/31/18 8:00

Don 5/31/18 1149

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 18E2658  
**Date Received:** 05/31/18  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

<b>Lab No.:</b>	<b>J053104-01</b>						
<b>Client Sample I.D.:</b>	<b>Reservoir Effluent Site #5/ 18E2658-02</b>						
<b>Date/Time Sampled:</b>	<b>5/30/18 7:20</b>						
<b>Date/Time Analyzed:</b>	<b>6/5/18 12:13</b>						
<b>QC Batch No.:</b>	<b>180605GC8A2</b>						
<b>Analyst Initials:</b>	<b>AS</b>						
<b>Dilution Factor:</b>	<b>1.0</b>						
<b>ANALYTE</b>	<b>Result mg/L</b>	<b>RL mg/L</b>					
<b>Methane</b>	<b>0.31</b>	<b>0.0010</b>					

ND = Not Detected (below RL)  
RL = Reporting Limit

Reviewed/Approved By: 

Mark Johnson  
Operations Manager

Date

6-7-18

The cover letter is an integral part of this analytical report



QC Batch No.: 180605GC8A2  
Matrix: Water  
Units: mg/L

## QC for Dissolved Gases by EPA Procedure RSKSOP-175

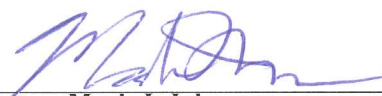
Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		6/5/18 11:33		6/5/18 10:41		6/5/18 10:57			
Analyst Initials:		AS		AS		AS			
Datafile:		05jun021		05jun018		05jun019			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.0010	0.0010	ND	105	70-130%	105	70-130%	0.4	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Operations Manager

Date:

6-7-18

The cover letter is an integral part of this analytical report.



[illegible]

## **APPENDIX B**

### **METHANE MONITORING LOG**





CITY OF LOMITA  
PUBLIC WORKS DEPARTMENT

**CYPRESS WATER PRODUCTION FACILITY  
HANDHELD METHANE LOG READINGS**

MAY 2018					
DATE	DAY	METHANE HANDHELD			COMMENTS
5/1/2018	Tue	CH <sub>4</sub> -	0%	Oxy- 21.6%	
5/2/2018	Wed	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/3/2018	Thu	CH <sub>4</sub> -	0%	Oxy- 20.8%	
5/4/2018	Fri	CH <sub>4</sub> -	0%	Oxy- 20.6%	
5/5/2018	Sat	CH <sub>4</sub> -	0%	Oxy- 20.7%	
5/6/2018	Sun	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/7/2018	Mon	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/8/2018	Tue	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/9/2018	Wed	CH <sub>4</sub> -	0%	Oxy- 22.8%	
5/10/2018	Thu	CH <sub>4</sub> -	0%	Oxy- 20.8%	
5/11/2018	Fri				OFFLINE
5/12/2018	Sat				OFFLINE
5/13/2018	Sun				OFFLINE
5/14/2018	Mon				OFFLINE
5/15/2018	Tue				OFFLINE
5/16/2018	Wed	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/17/2018	Thu	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/18/2018	Fri	CH <sub>4</sub> -	0%	Oxy- 20.8%	
5/19/2018	Sat	CH <sub>4</sub> -	0%	Oxy- 20.7%	
5/20/2018	Sun	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/21/2018	Mon	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/22/2018	Tue	CH <sub>4</sub> -	0%	Oxy- 20.7%	
5/23/2018	Wed	CH <sub>4</sub> -	0%	Oxy- 20.6%	
5/24/2018	Thu	CH <sub>4</sub> -	0%	Oxy- 20.8%	
5/25/2018	Fri	CH <sub>4</sub> -	0%	Oxy- 20.9%	
5/26/2018	Sat	CH <sub>4</sub> -	0%	Oxy- 20.8%	
5/27/2018	Sun	CH <sub>4</sub> -	0%	Oxy- 20.5%	
5/28/2018	Mon	CH <sub>4</sub> -	0%	Oxy- 20.6%	
5/29/2018	Tue	CH <sub>4</sub> -	0%	Oxy- 20.7%	
5/30/2018	Wed	CH <sub>4</sub> -	0%	Oxy- 20.6%	
5/31/2018	Thu	CH <sub>4</sub> -	3%	Oxy- 20.6%	
ND- Non Detect CH <sub>4</sub> - Methane Oxy- Oxygen Day Off/Holiday- Red					

## **APPENDIX C**

### **NITRIFICATION MONITORING DATA SUMMARY**

**MONTHLY NITRIFICATION MONITORING SUMMARY REPORT**  
**CITY OF LOMITA, System No. 1910073 --- Month, Year: May 2018**

#	Code	Sample ID	Location	Sample Date	Temp	pH	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite <sup>1</sup>	Nitrate	Coliform <sup>2</sup>	HPC	Zone	Comments
Units/Others →				MM/DD/YYYY	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/ml		
1	D	S13-003	1948 W 252nd St	5/2/2018	19.3	7.71	3.60	0.06	0.59	0.00	0.005	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/2/2018	19.1	7.84	3.50	0.14	0.54	0.00	0.007	ND	A	6	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/2/2018	19.3	7.76	4.00	0.08	0.58	0.00	0.009	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/2/2018	20.6	7.23	1.65	0.14	0.40	0.10	0.002	ND	A	89	1	Well/MWD Blend
5	D		Reservoir SP5	5/2/2018	18.6	7.8	4.00	0.20	0.60	0.00	0.009	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	5/2/2018	17.8	8.60	2.80	0.03	0.52	0.01	0.008	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/2/2018	17.7	8.54	2.70	0.13	0.46	0.00	0.006	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/2/2018	17.8	8.44	2.70	0.06	0.48	0.01	0.004	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	5/9/2018	19.9	7.81	3.50	0.04	0.55	0.00	0.006	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/9/2018	19.5	7.60	3.40	0.08	0.49	0.06	0.005	ND	A	ND	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/9/2018	20.8	7.92	3.70	0.04	0.60	0.05	0.007	ND	A	2	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/9/2018	20.0	7.87	1.50	0.01	0.39	0.14	0.006	0.42	A	23	1	Well/MWD Blend
5	D		Reservoir SP5	5/9/2018	18.7	8.04	3.76	0.04	0.60	0.60	0.003	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	5/9/2018	18.1	8.46	2.70	0.06	0.52	0.05	0.006	0.43	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/9/2018	17.6	8.56	2.60	0.13	0.51	0.13	0.003	0.43	A	7	3	MWD Only
8	D	S13-005	2500 PCH	5/9/2018	18.2	8.54	2.70	0.11	0.49	0.07	0.006	0.44	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	5/16/2018	16.1	8.28	2.70	0.15	-	-	-	0.45	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/16/2018	16.8	8.26	2.12	0.07	-	-	-	0.48	A	ND	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/16/2018	18.7	8.15	1.84	0.15	-	-	-	0.5	A	3	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/16/2018	18.5	8.24	1.04	0.05	-	-	-	0.42	A	67	1	Well/MWD Blend
5	D		Reservoir SP5	5/16/2018	19.1	8.01	3.10	0.20	-	-	-	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	5/16/2018	18.2	8.70	2.60	0.12	-	-	-	0.45	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/16/2018	18.0	8.65	2.70	0.11	-	-	-	0.46	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/16/2018	17.6	8.48	2.40	0.08	-	-	-	0.45	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	5/23/2018	20.0	7.66	3.20	0.06	0.74	0.03	0.002	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/23/2018	19.7	7.64	3.40	0.07	0.62	0.04	0.005	ND	A	2	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/23/2018	20.2	7.73	3.70	0.09	0.62	0.00	0.004	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/23/2018	20.3	7.74	1.74	0.11	0.48	0.09	0.005	ND	A	40	1	Well/MWD Blend
5	D		Reservoir SP5	5/23/2018	19.5	7.80	3.90	0.50	0.72	0.00	0.004	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	5/23/2018	20.3	8.74	2.60	0.08	0.56	0.06	0.004	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/23/2018	18.3	8.28	2.50	0.04	0.54	0.00	0.004	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/23/2018	18.7	8.14	2.20	0.04	0.49	0.04	0.004	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	5/30/2018	20.4	7.79	3.30	0.12	0.64	0.07	0.004	ND	A	2	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/30/2018	20.2	7.89	3.10	0.04	0.57	0.06	0.011	ND	A	2	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/30/2018	21.4	7.88	3.80	0.10	0.64	0.05	0.007	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/30/2018	20.2	7.85	1.94	0.04	0.51	0.19	0.010	ND	A	5	1	Well/MWD Blend
5	D		Reservoir	5/30/2018	20.6	8.00	3.39	0.11	0.70	0.00	0.005	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	5/30/2018	19.3	8.31	2.50	0.08	0.47	0.07	0.014	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/30/2018	19.0	8.33	2.50	0.08	0.50	0.04	0.006	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/30/2018	19.5	8.28	2.50	0.11	0.50	0.03	0.005	ND	A	ND	2	MWD Only

<sup>1</sup>Notes: Report Due to DDW by the 10th of the following month. This Report can be used for the routine weekly monitoring (one Report per month) as well as for daily monitoring when there is actual and potential for nitrification (about four or five Reports per month, in this case).

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

<sup>3</sup>The City is monitoring trends of Nitrite in Zone I, in accordance with the Nitrification Monitoring Plan. Due to elevated reads additional hydrant flushing has been implemented.