

CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

---

March 2017

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**CITY COUNCIL**

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



**CITY OF LOMITA**

**ADMINISTRATION**

RYAN SMOOT  
CITY MANAGER

April 10, 2017

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, 2017.

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 2017.

If you should have any questions or concerns, please contact me at 310-325-7110 Ext. 124.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark A. McAvoy".

Mark A. McAvoy, P.E.  
Public Works Director/City Engineer

## A. BACKGROUND

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

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

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

## B. WELL PRODUCTION

The CWPF operated continuously during the month of March 2017 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 462 gpm and 543 gpm from MWD. The blend ratio for month was 45% Well water and 55% MWD water. See Table 1 below for production totals for the month of March 2017.

Table 1. Monthly Production Totals.

|                | Production for March 2017 |           |                         |
|----------------|---------------------------|-----------|-------------------------|
| Well No. 5     | 47.18                     | ac-ft     | (15,373,173 gallons)    |
| MWD            | 56.54                     | ac-ft     | (18,421,000 gallons)    |
| Combined Total | 103.72                    | ac-ft     | (33,794,161 gallons)    |
| Daily          | 3.35                      | ac-ft/day | (1,090,134 gallons/day) |

## C. OPERATIONAL INTERRUPTIONS

There were no operational interruptions during the month of March 2017. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruptions are anticipated for the following month.

## D. SAMPLE LOCATIONS

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



## **E. WATER QUALITY MONITORING**

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

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

See Table 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. Iron and Manganese in the raw water (SP1) for the month were below and above the MCL, respectively. 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 512 mg/L. The TDS level of the effluent water meets the City's Water Quality Objective/Goal of 500 to 750 mg/L. The sampling results indicate the TDS levels in the raw water and MWD water source to be 720 mg/L and 300 mg/L, respectively.

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

The sampling results for the month indicate the hardness levels of the blended water to be on average 210 mg/L. This hardness level is in the upper range of the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the water distribution system. The City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

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

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

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.37 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 March 2017 in Appendix B.

### **E3-5 ODOR**

The odor levels at the CWPF effluent averaged 1.8 unit for the month.

## **E4. NITRIFICATION MONITORING**

Weekly Nitrification sampling was performed during the month of March 2017, see Appendix C.

## 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 |
| 3/1/2017      |                               |                 |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | ND    | 15      |
| 3/8/2017      | 220                           | 300             | 120             | 50             | 10    | 15      | A              | A                                      | A              | 500     | ND  | 300             | ND              | 50             | 7.5   | 15      |
| 3/15/2017     |                               |                 |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | 7.5   | 15      |
| 3/22/2017     |                               |                 |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | 5.0   | 15      |
| 3/29/2017     |                               |                 |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | 5.0   | 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> |
| 3/1/2017      | 6.09    | 0.31    | 5.92     | 1.34                  | 0.37    | 4.13     | 0.89                  | 0.05    | 3.40     | 0.74                  |
| 3/8/2017      | 6.05    | 0.29    | 5.33     | 1.07                  | 0.38    | 3.96     | 0.74                  | 0.06    | 3.40     | 0.74                  |
| 3/15/2017     | 5.74    | 0.54    | 5.13     | 1.13                  | 0.40    | 3.96     | 0.83                  | 0.06    | 3.33     | 0.70                  |
| 3/22/2017     | 4.64    | 0.35    | 4.76     | 0.92                  | 0.39    | 3.79     | 0.74                  | 0.06    | 3.24     | 0.73                  |
| 3/29/2017     | 4.39    | 0.25    | 4.40     | 0.96                  | 0.40    | 3.68     | 0.72                  | 0.14    | 2.95     | 0.62                  |

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 |
| 3/1/2017       |                      |                 | 500                      | 500-750              | 2                        | 3        |                      |                 |                          |                      |                       | 0.46                     |
| 3/8/2017       | 720                  | 300             | 510                      | 500-750              | 2                        | 3        | 300                  | 110             | 210                      | 180-250              | 4                     | 0.36                     |
| 3/15/2017      |                      |                 | 540                      | 500-750              | 1                        | 3        |                      |                 |                          |                      |                       | 0.29                     |
| 3/22/2017      |                      |                 | 530                      | 500-750              | 2                        | 3        |                      |                 |                          |                      |                       | 0.30                     |
| 3/29/2017      |                      |                 | 480                      | 500-750              | 2                        | 3        |                      |                 |                          |                      |                       | 0.45                     |
| <b>Average</b> | <b>720</b>           | <b>300</b>      | <b>512</b>               | 500-750              | <b>1.8</b>               | <b>3</b> | <b>300</b>           | <b>110</b>      | <b>210</b>               | 180-250              | <b>4</b>              | <b>0.37</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







## **APPENDIX A**

### LABORATORY RESULTS

# *Clinical Laboratory of San Bernardino, Inc.*



16 March 2017

Clinical Lab No.: 17C0124

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

Project Name: Standard Analysis  
Sub Project: CWPF 1st week March Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 03/01/17. 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 March Compliance Analysis  
Project Manager: Mark Andersen

Work Order: 17C0124  
Received: 03/01/17 16:00  
Reported: 03/16/17

## Filter Effluent (Total Chlorine) Site #3

17C0124-01 (Water)

Sample Date: 03/01/17 9:45

Sampler: DGM

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 6.11 |  | N/A | mg/L     | 03/01/17 | 03/01/17 | 1709125 |  |
| pH (Field)           | Field | 7.77 |  | N/A | pH Units | 03/01/17 | 03/01/17 | 1709125 |  |
| Temperature (Field)  | Field | 20   |  | N/A | °C       | 03/01/17 | 03/01/17 | 1709125 |  |

### General Physical Analyses

|                |               |    |     |    |             |          |          |         |  |
|----------------|---------------|----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM<br>2120B-M | ND | 3.0 | 15 | Color Units | 03/01/17 | 03/01/17 | 1709148 |  |
|----------------|---------------|----|-----|----|-------------|----------|----------|---------|--|

### Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 03/03/17 | 03/06/17 | 1709188 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 03/03/17 | 03/06/17 | 1709188 |  |

## Reservoir Effluent Site #5

17C0124-02 (Water)

Sample Date: 03/01/17 9:45

Sampler: DGM

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 3.2  |  | N/A | mg/L     | 03/01/17 | 03/01/17 | 1709125 |  |
| pH (Field)           | Field | 7.98 |  | N/A | pH Units | 03/01/17 | 03/01/17 | 1709125 |  |
| Temperature (Field)  | Field | 16.4 |  | N/A | °C       | 03/01/17 | 03/01/17 | 1709125 |  |

### General Physical Analyses

|                |             |   |   |   |     |          |          |         |  |
|----------------|-------------|---|---|---|-----|----------|----------|---------|--|
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 03/01/17 | 03/01/17 | 1709148 |  |
|----------------|-------------|---|---|---|-----|----------|----------|---------|--|

### General Chemical Analyses

|                              |          |     |     |      |      |          |          |         |  |
|------------------------------|----------|-----|-----|------|------|----------|----------|---------|--|
| Total Filterable Residue/TDS | SM 2540C | 500 | 5.0 | 1000 | mg/L | 03/07/17 | 03/10/17 | 1710023 |  |
|------------------------------|----------|-----|-----|------|------|----------|----------|---------|--|

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 17C0124

Report Date: 03/16/2017

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 170301 09:45

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 170301

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 170306

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 170306

March 9, 2017

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



ADE-1461  
EPA Methods TO3,  
TO14A, TO15 SIM & SCAN  
ASTM D1946



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: 17C0124  
Lab Number: I030207-01

Enclosed are results for sample(s) received 3/02/17 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 NELAC 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**  
**17C0124**

1030207  
Page 2 of 4

**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   ☐ ybarra@clinical-lab.com   ☒ styles@clinical-lab.com   ☐ nelson@clinical-lab.com

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

Water Trax Upload Client: \_\_\_\_\_   ☐ Yes   ☒ No

Turn Around Time   ☐ 10 Days   ☒ 5 Days   ☐ Other \_\_\_ Days

Subcontract Comments:

**Analysis**

**Comments**

**Sample ID: Reservoir Effluent Site #5 / 17C0124-02**

**Sampled: 03/01/17 09:45 PS Code:**  
**Water**

**WTX ID:**

61  
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.:** 17C0124  
**Date Received:** 03/02/17  
**Matrix:** Water  
**Reporting Units:** mg/L

1030207  
Page 3 of 4

**RSK175**

|                            |   |                    |  |  |  |  |  |
|----------------------------|---|--------------------|--|--|--|--|--|
| <b>Lab No.:</b>            | <b>I030207-01</b>                                       |                    |  |  |  |  |  |
| <b>Client Sample I.D.:</b> | <b>Reservoir Effluent<br/>Site #5 / 17C0124-<br/>02</b> |                    |  |  |  |  |  |
| <b>Date/Time Sampled:</b>  | <b>3/1/17 9:45</b>                                      |                    |  |  |  |  |  |
| <b>Date/Time Analyzed:</b> | <b>3/9/17 10:49</b>                                     |                    |  |  |  |  |  |
| <b>QC Batch No.:</b>       | <b>170309GC8A1</b>                                      |                    |  |  |  |  |  |
| <b>Analyst Initials:</b>   | <b>AS</b>   |                    |  |  |  |  |  |
| <b>Dilution Factor:</b>    | <b>1.0</b>  |                    |  |  |  |  |  |
| <b>ANALYTE</b>             | <b>Result<br/>mg/L</b>                                  | <b>RL<br/>mg/L</b> |  |  |  |  |  |
| <b>Methane</b>             | <b>0.46</b>   | <b>0.0010</b>      |  |  |  |  |  |
|                            |   |                    |  |  |  |  |  |

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

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

*Mark Johnson*  
Mark Johnson  
Operations Manager

Date \_\_\_\_\_

*3/9/17*

The cover letter is an integral part of this analytical report



QC Batch No.: 170309GC8A1  
Matrix: Water  
Units: mg/L

1030207  
Page 4 of 4

QC for Dissolved Gases by EPA Procedure RSKSOP-175


|                     |       |              |         |             |          |             |          |      |          |
|---------------------|-------|--------------|---------|-------------|----------|-------------|----------|------|----------|
| Lab No.:            |       | Method Blank |         | LCS         |          | LCSD        |          |      |          |
| Date/Time Analyzed: |       | 3/9/17 10:36 |         | 3/9/17 9:34 |          | 3/9/17 9:47 |          |      |          |
| Analyst Initials:   |       | AS           |         | AS          |          | AS          |          |      |          |
| Datafile:           |       | 09mar005     |         | 09mar001    |          | 09mar002    |          |      |          |
| Dilution Factor:    |       | 1.0          |         | 1.0         |          | 1.0         |          |      |          |
| ANALYTE             | PQL   | RL           | Results | % Rec.      | Criteria | % Rec.      | Criteria | %RPD | Criteria |
| Methane             | 0.001 | 0.001        | ND      | 93          | 70-130%  | 97          | 70-130%  | 4.0  | <30      |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

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

  
Mark J. Johnson  
Operations Manager

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

  
3/9/17

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

0/2

17C0124

|   |         |   |  |  |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
|---|---------|---|--|--|------|--------------------|----------------|---|--|-------|--|-------------|--|--|--|--|--|--|--|--|--|
| Client  |         | City of Lomita                          |  | System Number  |      | Analysis Requested |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Address   |         | 24373 Walnut Avenue                     |  | 1910073  |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Phone #   |         | Lomita, CA 91717                        |  | Destination Laboratory   |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Fax #   |         | (310) 325-9830                          |  | [X] Clinical Laboratory  |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Project   |         | (310) 325-3627                          |  | RWQCB Compliance   |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Sub Project   |         | Standard Analysis                       |  | YES  |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Comments  |         | CWPF WEEKLY Compliance Analysis         |  | ELAP #   |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Sampled by  |         | DGM                                     |  | 1088   |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Date  | Time    | Sample Identification                   |  | Matrix   | Type | Preserv            | Total Chlorine |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| 3/1/2017  |         | Raw Water Site #1                       |  | GW   | 1W   | N/A                |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
|   |         | Raw Water Site #1                       |  | GW   | 1W   | 2,7                |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
|   |         |   |  |  |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| 3/1/2017  | 9:45 AM | Filter Effluent (Free Chlorine) Site#2  |  | DW   | 1W   | 1,7                |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| 3/1/2017  | 9:45 AM | Filter Effluent (Total Chlorine) Site#3 |  | DW   | 1W   | N/A                | 6.11           |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| 3/1/2017  | 9:45 AM | Reservoir Effluent Site #5              |  | DW   | ID   | N/A                | 3.20           |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| 3/1/2017  | 9:45 AM | Reservoir Effluent Site #5              |  | DW   | ID   | 2,7                |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
|   |         |   |  |  |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| 3/1/2017  |         | Zone #2 Site #6                         |  | DW   | ID   | N/A                |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl (5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Cold (8) Other: |         |   |  | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist. |      |                    |                |   |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Relinquished By (Sign)  |         | Print Name / Company                    |  | Date / Time  |      | Received By (Sign) |                | Print Name / Company                    |  |       |  |             |  |  |  |  |  |  |  |  |  |
| DGM   |         | City of Lomita                          |  | 3/1/2017 12:00   |      | [Signature]        |                | J. Wuenow/USB                           |  |       |  |             |  |  |  |  |  |  |  |  |  |
| [Signature]   |         | J. Wuenow/USB                           |  | 3-1-17 14:00   |      | [Signature]        |                | Alm USB                                 |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Comments:   |         |   |  | Samples received: <input checked="" type="checkbox"/> On ice ( ) Intact ( ) Custody seals Temp 9.5 ( )   |      |                    |                | F <input checked="" type="checkbox"/> C |  |       |  |             |  |  |  |  |  |  |  |  |  |
| Shipped Via   |         | Fed X                                   |  | Golden State   |      | UPS                |                | Client                                  |  | Other |  | Page 1 of 1 |  |  |  |  |  |  |  |  |  |

# *Clinical Laboratory of San Bernardino, Inc.*



24 March 2017

Clinical Lab No.: 17C0823

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

Project Name: Standard Analysis  
Sub Project: Monthly Compliance / Monthly 2nd Week March

Enclosed are the results of the analyses for samples received at the laboratory on 03/08/17. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager



# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: Monthly Compliance / Monthly 2nd Week March  
Project Manager: Mark Andersen

Work Order: 17C0823  
Received: 03/08/17 16:00  
Reported: 03/24/17

## Raw Water Site #1

17C0823-01 (Water)

Sample Date: 03/08/17 9:05 Sampler: DGM

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 0    |  | N/A | mg/L     | 03/08/17 | 03/08/17 | 1710135 |  |
| pH (Field)           | Field | 7.6  |  | N/A | pH Units | 03/08/17 | 03/08/17 | 1710135 |  |
| Temperature (Field)  | Field | 21.4 |  | N/A | °C       | 03/08/17 | 03/08/17 | 1710135 |  |

### Microbiology Analyses

|                |         |    |   |     |        |          |          |         |       |
|----------------|---------|----|---|-----|--------|----------|----------|---------|-------|
| Total Coliform | SM 9223 | A  |   | N/A | P/A    | 03/08/17 | 03/09/17 | 1710130 |       |
| E. Coli        | SM 9223 | A  |   | N/A | P/A    | 03/08/17 | 03/09/17 | 1710130 |       |
| Plate Count    | SM9215B | 37 | 1 | 500 | CFU/ml | 03/08/17 | 03/10/17 | 1710181 | HT-08 |

### General Physical Analyses

|                |            |      |     |    |             |          |          |         |  |
|----------------|------------|------|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM 2120B-M | 10.0 | 3.0 | 15 | Color Units | 03/08/17 | 03/08/17 | 1710141 |  |
|----------------|------------|------|-----|----|-------------|----------|----------|---------|--|

### General Chemical Analyses

|   |            |     |     |      |      |          |          |         |  |
|---|------------|-----|-----|------|------|----------|----------|---------|--|
| Hardness, Total (as CaCO <sub>3</sub> ) | Calculated | 300 | 6.6 | N/A  | mg/L | 03/13/17 | 03/13/17 | [CALC]  |  |
| Total Filterable Residue/TDS            | SM 2540C   | 720 | 5.0 | 1000 | mg/L | 03/14/17 | 03/17/17 | 1711035 |  |

### Metals

|                |           |     |     |     |      |          |          |         |  |
|----------------|-----------|-----|-----|-----|------|----------|----------|---------|--|
| Calcium (Ca)   | EPA 200.7 | 80  | 1.0 | N/A | mg/L | 03/13/17 | 03/13/17 | 1710180 |  |
| Iron (Fe)      | EPA 200.7 | 220 | 100 | 300 | ug/L | 03/14/17 | 03/14/17 | 1711031 |  |
| Magnesium (Mg) | EPA 200.7 | 25  | 1.0 | N/A | mg/L | 03/13/17 | 03/13/17 | 1710180 |  |
| Manganese (Mn) | EPA 200.7 | 120 | 20  | 50  | ug/L | 03/14/17 | 03/14/17 | 1711031 |  |

## Filter Effluent (Free Chlorine) Site #2

17C0823-02 (Water)

Sample Date: 03/08/17 9:10 Sampler: D G M

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 7.2  |  | N/A | mg/L     | 03/08/17 | 03/08/17 | 1710135 |  |
| pH (Field)           | Field | 7.62 |  | N/A | pH Units | 03/08/17 | 03/08/17 | 1710135 |  |
| Temperature (Field)  | Field | 22.1 |  | N/A | °C       | 03/08/17 | 03/08/17 | 1710135 |  |

### Microbiology Analyses

|                |         |    |   |     |        |          |          |         |       |
|----------------|---------|----|---|-----|--------|----------|----------|---------|-------|
| Total Coliform | SM 9223 | A  |   | N/A | P/A    | 03/08/17 | 03/09/17 | 1710130 |       |
| E. Coli        | SM 9223 | A  |   | N/A | P/A    | 03/08/17 | 03/09/17 | 1710130 |       |
| Plate Count    | SM9215B | ND | 1 | 500 | CFU/ml | 03/08/17 | 03/10/17 | 1710181 | HT-08 |

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: Monthly Compliance / Monthly 2nd Week March  
Project Manager: Mark Andersen

Work Order: 17C0823  
Received: 03/08/17 16:00  
Reported: 03/24/17

## Filter Effluent (Total Chlorine) Site #3

17C0823-03 (Water)

Sample Date: 03/08/17 8:40

Sampler: D G M

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 7.2  |  | N/A | mg/L     | 03/08/17 | 03/08/17 | 1710135 |  |
| pH (Field)           | Field | 7.78 |  | N/A | pH Units | 03/08/17 | 03/08/17 | 1710135 |  |
| Temperature (Field)  | Field | 22.2 |  | N/A | °C       | 03/08/17 | 03/08/17 | 1710135 |  |

### General Physical Analyses

|                |               |     |     |    |             |          |          |         |  |
|----------------|---------------|-----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM<br>2120B-M | 7.5 | 3.0 | 15 | Color Units | 03/08/17 | 03/08/17 | 1710141 |  |
|----------------|---------------|-----|-----|----|-------------|----------|----------|---------|--|

### Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 03/14/17 | 03/14/17 | 1711031 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 03/14/17 | 03/14/17 | 1711031 |  |

## Zone #2 Site #6

17C0823-04 (Water)

Sample Date: 03/08/17 8:45

Sampler: DGM

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 1.94 |  | N/A | mg/L     | 03/08/17 | 03/08/17 | 1710135 |  |
| pH (Field)           | Field | 8.59 |  | N/A | pH Units | 03/08/17 | 03/08/17 | 1710135 |  |
| Temperature (Field)  | Field | 17.1 |  | N/A | °C       | 03/08/17 | 03/08/17 | 1710135 |  |

### General Chemical Analyses

|                              |            |     |     |      |      |          |          |         |  |
|------------------------------|------------|-----|-----|------|------|----------|----------|---------|--|
| Hardness, Total (as CaCO3)   | Calculated | 110 | 6.6 | N/A  | mg/L | 03/13/17 | 03/13/17 | [CALC]  |  |
| Total Filterable Residue/TDS | SM 2540C   | 300 | 5.0 | 1000 | mg/L | 03/14/17 | 03/17/17 | 1711035 |  |

### Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Calcium (Ca)   | EPA 200.7 | 24 | 1.0 | N/A | mg/L | 03/13/17 | 03/13/17 | 1710180 |  |
| Magnesium (Mg) | EPA 200.7 | 12 | 1.0 | N/A | mg/L | 03/13/17 | 03/13/17 | 1710180 |  |

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: Monthly Compliance / Monthly 2nd Week March  
Project Manager: Mark Andersen

Work Order: 17C0823  
Received: 03/08/17 16:00  
Reported: 03/24/17

**Reservoir Effluent Site #5**      **17C0823-05 (Water)**      **Sample Date:** 03/08/17 8:50      **Sampler:** DGM

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

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>2.9</b>  |  | N/A | mg/L     | 03/08/17 | 03/08/17 | 1710135 |  |
| <b>pH (Field)</b>           | Field | <b>8.14</b> |  | N/A | pH Units | 03/08/17 | 03/08/17 | 1710135 |  |
| <b>Temperature (Field)</b>  | Field | <b>17.7</b> |  | N/A | °C       | 03/08/17 | 03/08/17 | 1710135 |  |

## General Physical Analyses

|                       |             |          |   |   |     |          |          |         |  |
|-----------------------|-------------|----------|---|---|-----|----------|----------|---------|--|
| <b>Odor Threshold</b> | EPA 140.1-M | <b>2</b> | 1 | 3 | TON | 03/08/17 | 03/08/17 | 1710141 |  |
|-----------------------|-------------|----------|---|---|-----|----------|----------|---------|--|

## General Chemical Analyses

|  |            |            |     |      |      |          |          |         |  |
|--|------------|------------|-----|------|------|----------|----------|---------|--|
| <b>Hardness, Total (as CaCO<sub>3</sub>)</b> | Calculated | <b>210</b> | 6.6 | N/A  | mg/L | 03/14/17 | 03/14/17 | [CALC]  |  |
| <b>Total Filterable Residue/TDS</b>          | SM 2540C   | <b>510</b> | 5.0 | 1000 | mg/L | 03/14/17 | 03/17/17 | 1711035 |  |

## Metals

|                       |           |           |     |     |      |          |          |         |  |
|-----------------------|-----------|-----------|-----|-----|------|----------|----------|---------|--|
| <b>Calcium (Ca)</b>   | EPA 200.7 | <b>52</b> | 1.0 | N/A | mg/L | 03/14/17 | 03/14/17 | 1711037 |  |
| <b>Magnesium (Mg)</b> | EPA 200.7 | <b>18</b> | 1.0 | N/A | mg/L | 03/14/17 | 03/14/17 | 1711037 |  |

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

ND      Analyte NOT DETECTED at or above the reporting limit



March 17, 2017

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



ADE-1461  
EPA Methods TO3,  
TO14A, TO15 SIM & SCAN  
ASTM D1946



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: 17C0823  
Lab Number: I031001-01/02

Enclosed are results for sample(s) received 3/10/17 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 NELAC 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**  
**17C0823**

2 of 4  
I031001

I031001-01/02

**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 [ ] ybarra@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 / 17C0823-01

Sampled: 03/08/17 09:05 PS Code:  
Water

WTX ID:

01

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial w/ Na2S2O3 (B)

40mL Amber Vial w/ Na2S2O3 (C)

Sample ID: Reservoir Effluent Site #5 / 17C0823-05

Sampled: 03/08/17 08:50 PS Code:  
Water

WTX ID:

02

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Red 2<sup>nd</sup>  
m 3/10/17

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

03/09/17 16:00 3/10/17 900  
3/10/17 1035 3/10/17 1035



**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 17C0823  
**Date Received:** 03/10/17  
**Matrix:** Water  
**Reporting Units:** mg/L

## RSK175

| Lab No.:            | I031001-01                        | I031001-02                                     |                |            |
|---------------------|-----------------------------------|--|----------------|------------|
| Client Sample I.D.: | Raw Water Site #1<br>/ 17C0823-01 | Reservoir Effluent<br>Site #5 / 17C0823-<br>05 |                |            |
| Date/Time Sampled:  | 3/8/17 9:05                       | 3/8/17 8:50                                    |                |            |
| Date/Time Analyzed: | 3/14/17 15:54                     | 3/14/17 16:07                                  |                |            |
| QC Batch No.:       | 170314GC8A1                       | 170314GC8A1                                    |                |            |
| Analyst Initials:   | AS                                | AS   |                |            |
| Dilution Factor:    | 1.0                               | 1.0  |                |            |
| ANALYTE             | Result<br>mg/L                    | RL<br>mg/L                                     | Result<br>mg/L | RL<br>mg/L |
| Methane             | 4.0                               | 0.0010   | 0.36           | 0.0010     |
|                     |                                   |  |                |            |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson  
Operations Manager

Date

3-17-17

The cover letter is an integral part of this analytical report



QC Batch No.: 170314GC8A1  
Matrix: Water  
Units: mg/L

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

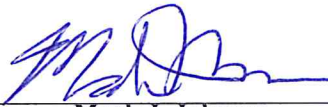
|                     |       |               |         |              |          |              |          |      |          |
|---------------------|-------|---------------|---------|--------------|----------|--------------|----------|------|----------|
| Lab No.:            |       | Method Blank  |         | LCS          |          | LCSD         |          |      |          |
| Date/Time Analyzed: |       | 3/14/17 15:41 |         | 3/15/17 8:11 |          | 3/15/17 8:25 |          |      |          |
| Analyst Initials:   |       | AS            |         | AS           |          | AS           |          |      |          |
| Datafile:           |       | 14mar031      |         | 14mar035     |          | 14mar036     |          |      |          |
| Dilution Factor:    |       | 1.0           |         | 1.0          |          | 1.0          |          |      |          |
| ANALYTE             | PQL   | RL            | Results | % Rec.       | Criteria | % Rec.       | Criteria | %RPD | Criteria |
| Methane             | 0.001 | 0.001         | ND      | 103          | 70-130%  | 105          | 70-130%  | 2.0  | <30      |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

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

  
Mark J. Johnson  
Operations Manager

Date: 3-17-17

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

2/3

Chain of Custody

17C0823

102

|   |      |  |  |  |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
|---|------|--|--|--|------|-------------------------|----------------|------------------------|------------------|---------|----------------|---------------------------|-------|------|--------------------------|----------|--------------------|
| Client  |      | City of Lomita                               |  | System Number                            |      | Analysis Requested      |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Address   |      | 24373 Walnut Avenue                          |  | 1910073                                  |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Phone #   |      | Lomita, CA 91717                             |  | Destination Laboratory                   |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Fax #   |      | (310) 325-9830                               |  | [X] Clinical Laboratory                  |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Project   |      | (310) 325-3627                               |  | RWQCB Compliance                         |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Sub Project   |      | Standard Analysis                            |  | YES                                      |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Comments  |      | Monthly Compliance/Monthly 2nd week of MARCH |  | ELAP #                                   |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Sampled by  |      | DGM  |  | 1088                                     |      |                         |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Date  | Time | Sample Identification                        |  | Matrix                                   | Type | Preserv                 | Total Chlorine | Total Dissolved Solids | Iron & Manganese | E. Coli | Total Coliform | Heterotrophic Plate Count | Color | Odor | Methane (WATER) (RSK175) | Hardness |                    |
| 3/8/2017  | 0835 | Raw Water Site #1                            |  | GW                                       | 1W   | N/A                     | 0              | X                      | X                | X       | X              | X                         | X     |      |                          |          | PH 7.6 TEMP 21.4°  |
| 3/8/2017  | 0905 | Raw Water Site #1                            |  | GW                                       | 1W   | 2.7                     | 0              |                        |                  | X       | X              | X                         |       |      | X                        | X        |                    |
|   |      | Raw Water Site #1                            |  | GW                                       | 1W   | 1.7                     | 0              |                        |                  |         |                |                           |       |      |                          |          |                    |
| 3/8/2017  | 0910 | Filter Effluent (Free Chlorine) Site#2       |  | DW                                       | 1W   | 1.7                     | 7.2            |                        |                  | X       | X              | X                         |       |      |                          |          | PH 7.62 TEMP 22.1° |
| 3/8/2017  | 0840 | Filter Effluent (Total Chlorine) Site#3      |  | DW                                       | 1W   | N/A                     | 7.2            |                        | X                |         |                |                           | X     |      |                          |          | PH 7.78 TEMP 22.2° |
| 3/8/2017  | 0845 | Zone #2 Site #6                              |  | DW                                       | ID   | N/A                     | 1.94           | X                      |                  |         |                |                           |       |      |                          | X        | PH 8.59 TEMP 17.1° |
| 3/8/2017  | 0850 | Reservoir Effluent Site #5                   |  | DW                                       | ID   | N/A                     | 2.9            | X                      |                  |         |                |                           | X     |      |                          | X        | PH 6.14 TEMP 17.7° |
| 3/8/2017  | 0850 | Reservoir Effluent Site #5                   |  | DW                                       | ID   | 2.7                     | 2.9            |                        |                  |         |                |                           |       |      | 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   |      | City of Lomita, CA                           |  | 3/8/17 / 2:00                            |      | [Signature]             |                | J. Wencel/CSB          |                  |         |                |                           |       |      |                          |          |                    |
| Patrick McCue   |      | Patrick McCue                                |  | 3.8.17 / 4:00                            |      | [Signature]             |                | Amc133                 |                  |         |                |                           |       |      |                          |          |                    |
| Comments:   |      | [Signature]                                  |  | Samples received: ( ) Intact ( ) F ( ) C |      | Custody seals Temp 10.9 |                |                        |                  |         |                |                           |       |      |                          |          |                    |
| Shipped Via   |      | Fed X  |  | Golden State                             |      | UPS                     |                | Client                 |                  | Other   |                | Page 1 of 1               |       |      |                          |          |                    |

# *Clinical Laboratory of San Bernardino, Inc.*



30 March 2017

Clinical Lab No.: 17C1363

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

Project Name: Standard Analysis  
Sub Project: CWPF 3rd week of Mar Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 03/15/17. 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 Mar Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 17C1363  
Received: 03/15/17 15:10  
Reported: 03/30/17

## Reservoir Influent Site #3

17C1363-01 (Water)

Sample Date: 03/15/17 7:30 Sampler: PM

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 4.71 |  | N/A | mg/L     | 03/15/17 | 03/15/17 | 1711148 |  |
| pH (Field)           | Field | 7.59 |  | N/A | pH Units | 03/15/17 | 03/15/17 | 1711148 |  |
| Temperature (Field)  | Field | 21.2 |  | N/A | °C       | 03/15/17 | 03/15/17 | 1711148 |  |

### General Physical Analyses

|                |               |     |     |    |             |          |          |         |  |
|----------------|---------------|-----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM<br>2120B-M | 5.0 | 3.0 | 15 | Color Units | 03/15/17 | 03/15/17 | 1711132 |  |
|----------------|---------------|-----|-----|----|-------------|----------|----------|---------|--|

### Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 03/20/17 | 03/20/17 | 1711145 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 03/20/17 | 03/20/17 | 1711145 |  |

## Reservoir Effluent Site #5

17C1363-02 (Water)

Sample Date: 03/15/17 7:35 Sampler: PM

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

### Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 2.98 |  | N/A | mg/L     | 03/15/17 | 03/15/17 | 1711148 |  |
| pH (Field)           | Field | 7.91 |  | N/A | pH Units | 03/15/17 | 03/15/17 | 1711148 |  |
| Temperature (Field)  | Field | 18.6 |  | N/A | °C       | 03/15/17 | 03/15/17 | 1711148 |  |

### General Physical Analyses

|                |               |    |     |    |             |          |          |         |  |
|----------------|---------------|----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM<br>2120B-M | ND | 3.0 | 15 | Color Units | 03/15/17 | 03/15/17 | 1711132 |  |
| Odor Threshold | EPA 140.1-M   | 1  | 1   | 3  | TON         | 03/15/17 | 03/15/17 | 1711132 |  |

### General Chemical Analyses

|                              |          |     |     |      |      |          |          |         |  |
|------------------------------|----------|-----|-----|------|------|----------|----------|---------|--|
| Total Filterable Residue/TDS | SM 2540C | 540 | 5.0 | 1000 | mg/L | 03/22/17 | 03/27/17 | 1712085 |  |
|------------------------------|----------|-----|-----|------|------|----------|----------|---------|--|

ND Analyte NOT DETECTED at or above the reporting limit

March 24, 2017

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



ADE-1461  
EPA Methods TO3,  
TO14A, TO15 SIM & SCAN  
ASTM D1946



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: 17C1363  
Lab Number: I031704-01

Enclosed are results for sample(s) received 3/17/17 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 NELAC 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,

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**  
**17C1363**

I031704-01

**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 [ ] ybarra@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 / 17C1363-02

Sampled: 03/15/17 07:35 PS Code:  
Water

WTX ID:

61

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

40C

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.:** 17C1363  
**Date Received:** 03/17/17  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

|                     |  |            |  |  |  |  |  |
|---------------------|--|------------|--|--|--|--|--|
| Lab No.:            | I031704-01                                     |            |  |  |  |  |  |
| Client Sample I.D.: | Reservoir Effluent<br>Site #5 / 17C1363-<br>02 |            |  |  |  |  |  |
| Date/Time Sampled:  | 3/15/17 7:35                                   |            |  |  |  |  |  |
| Date/Time Analyzed: | 3/23/17 8:58                                   |            |  |  |  |  |  |
| QC Batch No.:       | 170323GC8A1                                    |            |  |  |  |  |  |
| Analyst Initials:   | AS   |            |  |  |  |  |  |
| Dilution Factor:    | 1.0  |            |  |  |  |  |  |
| ANALYTE             | Result<br>mg/L                                 | RL<br>mg/L |  |  |  |  |  |
| Methane             | 0.29   | 0.0010     |  |  |  |  |  |
|                     |  |            |  |  |  |  |  |

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

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

Mark Johnson  
Operations Manager

Date

3-24-17

The cover letter is an integral part of this analytical report



QC Batch No.: 170323GC8A1  
Matrix: Water  
Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

| Lab No.:            |        | Method Blank |         | LCS          |          | LCSD         |          |      |          |
|---------------------|--------|--------------|---------|--------------|----------|--------------|----------|------|----------|
| Date/Time Analyzed: |        | 3/23/17 8:45 |         | 3/23/17 9:11 |          | 3/23/17 9:24 |          |      |          |
| Analyst Initials:   |        | AS           |         | AS           |          | AS           |          |      |          |
| Datafile:           |        | 23mar002     |         | 23mar004     |          | 23mar005     |          |      |          |
| Dilution Factor:    |        | 1.0          |         | 1.0          |          | 1.0          |          |      |          |
| ANALYTE             | PQL    | RL           | Results | % Rec.       | Criteria | % Rec.       | Criteria | %RPD | Criteria |
| Methane             | 0.0010 | 0.0010       | ND      | 108          | 70-130%  | 100          | 70-130%  | 7.7  | <30      |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson  
Operations Manager

Date:

3-24-17

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

310

114

17C1363

*"Your Water and Wastewater Analysis Solution"*

# *Clinical Laboratory of San Bernardino, Inc.*



07 April 2017

Clinical Lab No.: 17C1854

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

Project Name: Standard Analysis  
Sub Project: CWPF 4th Week MAR Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 03/22/17. 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 MAR Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 17C1854  
Received: 03/22/17 14:40  
Reported: 04/07/17

**Reservoir Influent Site #3** **17C1854-01 (Water)** **Sample Date:** 03/22/17 8:30 **Sampler:** DGM

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

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>3.7</b>  |  | N/A | mg/L     | 03/22/17 | 03/22/17 | 1712127 |  |
| <b>pH (Field)</b>           | Field | <b>7.9</b>  |  | N/A | pH Units | 03/22/17 | 03/22/17 | 1712127 |  |
| <b>Temperature (Field)</b>  | Field | <b>17.5</b> |  | N/A | °C       | 03/22/17 | 03/22/17 | 1712127 |  |

## General Physical Analyses

|                       |               |            |     |    |             |          |          |         |  |
|-----------------------|---------------|------------|-----|----|-------------|----------|----------|---------|--|
| <b>Apparent Color</b> | SM<br>2120B-M | <b>5.0</b> | 3.0 | 15 | Color Units | 03/22/17 | 03/22/17 | 1712126 |  |
|-----------------------|---------------|------------|-----|----|-------------|----------|----------|---------|--|

## Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 03/27/17 | 03/28/17 | 1713027 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 03/27/17 | 03/28/17 | 1713027 |  |

**Reservoir Effluent Site #5** **17C1854-02 (Water)** **Sample Date:** 03/22/17 8:45 **Sampler:** DGM

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

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>3.4</b>  |  | N/A | mg/L     | 03/22/17 | 03/22/17 | 1712127 |  |
| <b>pH (Field)</b>           | Field | <b>7.98</b> |  | N/A | pH Units | 03/22/17 | 03/22/17 | 1712127 |  |
| <b>Temperature (Field)</b>  | Field | <b>18.6</b> |  | N/A | °C       | 03/22/17 | 03/22/17 | 1712127 |  |

## General Physical Analyses

|                       |               |          |     |    |             |          |          |         |  |
|-----------------------|---------------|----------|-----|----|-------------|----------|----------|---------|--|
| <b>Apparent Color</b> | SM<br>2120B-M | ND       | 3.0 | 15 | Color Units | 03/22/17 | 03/22/17 | 1712126 |  |
| <b>Odor Threshold</b> | EPA 140.1-M   | <b>2</b> | 1   | 3  | TON         | 03/22/17 | 03/22/17 | 1712126 |  |

## General Chemical Analyses

|                                     |          |            |     |      |      |          |          |         |  |
|-------------------------------------|----------|------------|-----|------|------|----------|----------|---------|--|
| <b>Total Filterable Residue/TDS</b> | SM 2540C | <b>530</b> | 5.0 | 1000 | mg/L | 03/28/17 | 03/30/17 | 1713041 |  |
|-------------------------------------|----------|------------|-----|------|------|----------|----------|---------|--|

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 17C1854

Report Date: 04/07/2017

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 170322 08:30

COLOR

Result: 5.0

Units: UNITS

Entry No.: 00081

Analyzed: 170322

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 170328

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 170328



March 30, 2017

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



ADE-1461  
EPA Methods T03,  
TO14A, TO15 SIM & SCAN  
ASTM D1946



LA Cert #04140  
EPA Methods T03, TO14A, TO15, 25C/3C,  
RSK-175

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

UT Cert CA0133332015-3  
EPA Methods T03, TO14A, TO15, RSK-175

### LABORATORY TEST RESULTS

Project Reference: 17C1854  
Lab Number: I032305-01

Enclosed are results for sample(s) received 3/23/17 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 NELAC 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

2 of 4  
I032305Clinical Laboratory of San Bernardino  
17C1854

I032305-01

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 StylesRECEIVING 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 [ ] ybarra@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:

AnalysisComments

Sample ID: Reservoir Effluent Site #5 / 17C1854-02

Sampled: 03/22/17 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.:** 17C1854  
**Date Received:** 03/23/17  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

|                            |   |                    |  |  |  |
|----------------------------|---|--------------------|--|--|--|
| <b>Lab No.:</b>            | <b>I032305-01</b>                                       |                    |  |  |  |
| <b>Client Sample I.D.:</b> | <b>Reservoir Effluent<br/>Site #5 / 17C1854-<br/>02</b> |                    |  |  |  |
| <b>Date/Time Sampled:</b>  | <b>3/22/17 8:45</b>                                     |                    |  |  |  |
| <b>Date/Time Analyzed:</b> | <b>3/27/17 13:28</b>                                    |                    |  |  |  |
| <b>QC Batch No.:</b>       | <b>170327GC8A1</b>                                      |                    |  |  |  |
| <b>Analyst Initials:</b>   | <b>AS</b>   |                    |  |  |  |
| <b>Dilution Factor:</b>    | <b>1.0</b>  |                    |  |  |  |
| <b>ANALYTE</b>             | <b>Result<br/>mg/L</b>                                  | <b>RL<br/>mg/L</b> |  |  |  |
| Methane                    | 0.30  | 0.0010             |  |  |  |
|                            |   |                    |  |  |  |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date 3/30/17

The cover letter is an integral part of this analytical report



QC Batch No.: 170327GC8A1  
Matrix: Water  
Units: mg/L

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

| Lab No.:            |       | Method Blank |         | LCS          |          | LCSD          |          |      |          |
|---------------------|-------|--------------|---------|--------------|----------|---------------|----------|------|----------|
| Date/Time Analyzed: |       | 3/27/17 9:10 |         | 3/27/17 8:56 |          | 3/27/17 14:09 |          |      |          |
| Analyst Initials:   |       | AS           |         | AS           |          | AS            |          |      |          |
| Datafile:           |       | 27mar004     |         | 27mar003     |          | 27mar021      |          |      |          |
| Dilution Factor:    |       | 1.0          |         | 1.0          |          | 1.0           |          |      |          |
| ANALYTE             | PQL   | RL           | Results | % Rec.       | Criteria | % Rec.        | Criteria | %RPD | Criteria |
| Methane             | 0.001 | 0.001        | ND      | 78           | 70-130%  | 74            | 70-130%  | 5.7  | <30      |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

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

  
Mark J. Johnson  
Operations Manager

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

3/30/17

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

0131

17C1854

|                        |  |   |  |                         |  |   |  |  |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
|------------------------|--|---|--|-------------------------|--|---|--|--|--|----------|--|------------------------|--|----------------------------|--|------|--|-----------|--|-----------------------|--|--|--|
| Client                 |  | City of Lomita  |  | System Number           |  | Analysis Requested  |  |  |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| Address                |  | 24373 Walnut Avenue   |  | 1910073                 |  | Total Hardness (as CaCO3)   |  | Methane (Water) (RSK175)                                   |  | Color    |  | Total Dissolved Solids |  | Manganese                  |  | Iron |  | Odor      |  | Comments / P.S. Codes |  |  |  |
| Phone #                |  | Lomita, CA 91717  |  | Destination Laboratory  |  | Total Chlorine  |  | Preserv  |  | Type     |  | Matrix                 |  | Sample Identification      |  | Time |  | Date      |  |                       |  |  |  |
| Fax #                  |  | (310) 325-9830  |  | [X] Clinical Laboratory |  | 3.7   |  | N/A  |  | 1W       |  | DW                     |  | Reservoir Influent Site #3 |  | 0830 |  | 3/22/2017 |  | ph 7.98 temp 17.5     |  |  |  |
| Project                |  | Standard Analysis   |  | RWQCB Compliance        |  | "   |  | HCL  |  | 1W       |  | DW                     |  | Reservoir Effluent Site #5 |  | 0845 |  | 3/22/2017 |  | ph 7.98 temp 18.6     |  |  |  |
| Sub Project            |  | CW/PF 4TH Week MAR Compliance Sampling  |  | yes                     |  |   |  |  |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| Comments               |  | For TC/EC/BACT see weekly Distro CoC  |  | ELAP #                  |  |   |  |  |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| Sampled by             |  | DGM   |  | 1088                    |  |   |  |  |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| 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 |  | Matrix:                 |  | DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air       |  | Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist. |  | Type- 1- |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| Relinquished By (Sign) |  | Print Name / Company  |  | Date / Time             |  | Received By (Sign)  |  | Print Name / Company                                       |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| DANIEL MATEO           |  | City of Lomita  |  | 3/22/2017 1:30          |  | J. Lucero   |  | J. Lucero / CLB  |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| Comments:              |  | J. Lucero / CLB   |  | 3-22-0 / 2:40           |  | Samples received: ( ) Intact ( ) On ice ( ) Custody seals Temp 10.5 ( ) F ( ) C |  | XC   |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
| Shipped Via            |  | Fed X   |  | Golden State            |  | UPS   |  | Client   |  | Other    |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |
|                        |  |   |  |                         |  |   |  |  |  |          |  |                        |  |                            |  |      |  |           |  |                       |  |  |  |

# *Clinical Laboratory of San Bernardino, Inc.*



06 April 2017

Clinical Lab No.: 17C2342

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

Project Name: Standard Analysis  
Sub Project: CWPF 5th Week March 2017 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 03/29/17. 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 5th Week March 2017 Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 17C2342  
Received: 03/29/17 16:00  
Reported: 04/06/17

**Reservoir Influent Site #3** **17C2342-01 (Water)** **Sample Date:** 03/29/17 7:15 **Sampler:** PLM

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

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>4.55</b> |  | N/A | mg/L     | 03/29/17 | 03/29/17 | 1713106 |  |
| <b>pH (Field)</b>           | Field | <b>7.73</b> |  | N/A | pH Units | 03/29/17 | 03/29/17 | 1713106 |  |
| <b>Temperature (Field)</b>  | Field | <b>21.8</b> |  | N/A | °C       | 03/29/17 | 03/29/17 | 1713106 |  |

## General Physical Analyses

|                       |               |            |     |    |             |          |          |         |  |
|-----------------------|---------------|------------|-----|----|-------------|----------|----------|---------|--|
| <b>Apparent Color</b> | SM<br>2120B-M | <b>5.0</b> | 3.0 | 15 | Color Units | 03/29/17 | 03/29/17 | 1713120 |  |
|-----------------------|---------------|------------|-----|----|-------------|----------|----------|---------|--|

## Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 03/30/17 | 03/30/17 | 1713095 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 03/30/17 | 03/30/17 | 1713095 |  |

**Reservoir Effluent Site #5** **17C2342-02 (Water)** **Sample Date:** 03/29/17 7:25 **Sampler:** PLM

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

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>2.9</b>  |  | N/A | mg/L     | 03/29/17 | 03/29/17 | 1713106 |  |
| <b>pH (Field)</b>           | Field | <b>7.88</b> |  | N/A | pH Units | 03/29/17 | 03/29/17 | 1713106 |  |
| <b>Temperature (Field)</b>  | Field | <b>19.7</b> |  | N/A | °C       | 03/29/17 | 03/29/17 | 1713106 |  |

## General Physical Analyses

|                       |               |          |     |    |             |          |          |         |  |
|-----------------------|---------------|----------|-----|----|-------------|----------|----------|---------|--|
| <b>Apparent Color</b> | SM<br>2120B-M | ND       | 3.0 | 15 | Color Units | 03/29/17 | 03/29/17 | 1713120 |  |
| <b>Odor Threshold</b> | EPA 140.1-M   | <b>2</b> | 1   | 3  | TON         | 03/29/17 | 03/29/17 | 1713120 |  |

## General Chemical Analyses

|                                     |          |            |     |      |      |          |          |         |  |
|-------------------------------------|----------|------------|-----|------|------|----------|----------|---------|--|
| <b>Total Filterable Residue/TDS</b> | SM 2540C | <b>480</b> | 5.0 | 1000 | mg/L | 03/30/17 | 04/04/17 | 1713121 |  |
|-------------------------------------|----------|------------|-----|------|------|----------|----------|---------|--|

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 17C2342

Report Date: 04/06/2017

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 170329 07:15

COLOR

Result: 5.0

Units: UNITS

Entry No.: 00081

Analyzed: 170329

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 170330

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 170330





April 6, 2017

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



ADE-1461  
EPA Methods TO3,  
TO14A, TO15 SIM & SCAN  
ASTM D1946



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: 17C2342  
Lab Number: I033005-01

Enclosed are results for sample(s) received 3/30/17 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 NELAC 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**  
**17C2342**

I033005-01

**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 [ ] ybarra@clinical-lab.com [ ☒ ] styles@clinical-lab.com [ ] nelson@clinical-lab.com

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

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

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

Subcontract Comments:

**Analysis**

**Comments**

01 Sample ID: Reservoir Effluent Site #5 / 17C2342-02

Sampled: 03/29/17 07:25 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

40 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.:** 17C2342  
**Date Received:** 03/30/17  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

|                            |   |                    |  |  |  |  |  |
|----------------------------|---|--------------------|--|--|--|--|--|
| <b>Lab No.:</b>            | <b>I033005-01</b>                                     |                    |  |  |  |  |  |
| <b>Client Sample I.D.:</b> | <b>Reservoir Effluent<br/>Site #5/17C2342-<br/>02</b> |                    |  |  |  |  |  |
| <b>Date/Time Sampled:</b>  | <b>3/29/17 7:25</b>                                   |                    |  |  |  |  |  |
| <b>Date/Time Analyzed:</b> | <b>4/5/17 9:36</b>                                    |                    |  |  |  |  |  |
| <b>QC Batch No.:</b>       | <b>170405GC8A1</b>                                    |                    |  |  |  |  |  |
| <b>Analyst Initials:</b>   | <b>AS</b>   |                    |  |  |  |  |  |
| <b>Dilution Factor:</b>    | <b>1.0</b>  |                    |  |  |  |  |  |
| <b>ANALYTE</b>             | <b>Result<br/>mg/L</b>                                | <b>RL<br/>mg/L</b> |  |  |  |  |  |
| <b>Methane</b>             | <b>0.45</b>   | <b>0.0010</b>      |  |  |  |  |  |
|                            |   |                    |  |  |  |  |  |

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

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

  
Mark Johnson  
Operations Manager

Date \_\_\_\_\_

4/6/17

The cover letter is an integral part of this analytical report



QC Batch No.: 170405GC8A1  
Matrix: Water  
Units: mg/L

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

| Lab No.:            |       | Method Blank |         | LCS         |          | LCSD        |          |      |          |
|---------------------|-------|--------------|---------|-------------|----------|-------------|----------|------|----------|
| Date/Time Analyzed: |       | 4/5/17 9:22  |         | 4/5/17 8:55 |          | 4/5/17 9:08 |          |      |          |
| Analyst Initials:   |       | AS           |         | AS          |          | AS          |          |      |          |
| Datafile:           |       | 05apr003     |         | 05apr001    |          | 05apr002    |          |      |          |
| Dilution Factor:    |       | 1.0          |         | 1.0         |          | 1.0         |          |      |          |
| ANALYTE             | PQL   | RL           | Results | % Rec.      | Criteria | % Rec.      | Criteria | %RPD | Criteria |
| Methane             | 0.001 | 0.001        | ND      | 107         | 70-130%  | 112         | 70-130%  | 4.1  | <30      |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

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

  
Mark J. Johnson  
Operations Manager

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

4/6/17

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

17C2342

*"Your Water and Wastewater Analysis Solution"*

## **APPENDIX B**

### METHANE MONITORING LOG



CITY OF LOMITA  
PUBLIC WORKS DEPARTMENT

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

| MARCH 2017 |     |                   |    |            |          |
|------------|-----|-------------------|----|------------|----------|
| DATE       | DAY | METHANE HANDHELD  |    |            | COMMENTS |
| 3/1/2017   | W   | CH <sub>4</sub> - | 1% | Oxy- 19.9% |          |
| 3/2/2017   | TH  | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/3/2017   | F   | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/4/2017   | S   | CH <sub>4</sub> - | 0% | Oxy- 20.2% |          |
| 3/5/2017   | SU  | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/6/2017   | M   | CH <sub>4</sub> - | 0% | Oxy- 20.3% |          |
| 3/7/2017   | T   | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/8/2017   | W   | CH <sub>4</sub> - | 0% | Oxy- 20.2% |          |
| 3/9/2017   | TH  | CH <sub>4</sub> - | 0% | Oxy- 20.0% |          |
| 3/10/2017  | F   | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/11/2017  | S   | CH <sub>4</sub> - | 0% | Oxy- 20.0% |          |
| 3/12/2017  | SU  | CH <sub>4</sub> - | 0% | Oxy- 19.2% |          |
| 3/13/2017  | M   | CH <sub>4</sub> - | 0% | Oxy- 19.2% |          |
| 3/14/2017  | T   | CH <sub>4</sub> - | 0% | Oxy- 20.3% |          |
| 3/15/2017  | W   | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/16/2017  | TH  | CH <sub>4</sub> - | 0% | Oxy- 20.9% |          |
| 3/17/2017  | F   | CH <sub>4</sub> - | 0% | Oxy- 19.9% |          |
| 3/18/2017  | S   | CH <sub>4</sub> - | 1% | Oxy- 19.9% |          |
| 3/19/2017  | SU  | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/20/2017  | M   | CH <sub>4</sub> - | 0% | Oxy- 20.2% |          |
| 3/21/2017  | T   | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/22/2017  | W   | CH <sub>4</sub> - | 0% | Oxy- 19.9% |          |
| 3/23/2017  | TH  | CH <sub>4</sub> - | 0% | Oxy- 20.3% |          |
| 3/24/2017  | F   | CH <sub>4</sub> - | 0% | Oxy- 20.2% |          |
| 3/25/2017  | S   | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/26/2017  | SU  | CH <sub>4</sub> - | 0% | Oxy- 20.3% |          |
| 3/27/2017  | M   | CH <sub>4</sub> - | 0% | Oxy- 18.3% |          |
| 3/28/2017  | T   | CH <sub>4</sub> - | 0% | Oxy- 20.1% |          |
| 3/29/2017  | W   | CH <sub>4</sub> - | 1% | Oxy- 19.9% |          |
| 3/30/2017  | TH  | CH <sub>4</sub> - | 0% | Oxy- 20.3% |          |
| 3/31/2017  | F   | CH <sub>4</sub> - | 1% | Oxy- 19.9% |          |

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



## **APPENDIX C**

### **NITRIFICATION MONITORING DATA SUMMARY**

1 MONTHLY NITRIFICATION MONITORING SUMMARY REPORT  
CITY OF LOMITA, System No. 1910073 --- Month, Year: **March 2017**

| #              | Code | Sample ID | Location                | Sample Date | Temp | pH   | Total Chlorine | Free Chlorine | Total Ammonia | Free Ammonia | Nitrite | 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         | 3/1/2017    | 17.0 | 7.43 | 2.80           | 0.13          | 0.62          | 0.00         | 0.013   | 0.45    | A                     | ND     | 1    | Well/MWD Blend |
| 2              | D    | S13-004   | 24632 S Moon Ave        | 3/1/2017    | 18.7 | 7.90 | 3.00           | 0.11          | 0.62          | 0.00         | 0.012   | 0.45    | A                     | ND     | 1    | Well/MWD Blend |
| 3              | D    | S13-008   | 25417 Pennsylvania Ave  | 3/1/2017    | 19.6 | 7.92 | 3.20           | 0.08          | 0.62          | 0.00         | 0.011   | 0.45    | A                     | ND     | 1    | Well/MWD Blend |
| 4              | D    | A         | 2052 Dawn St            | 3/1/2017    | 18.2 | 7.76 | 2.40           | 0.19          | 0.52          | 0.00         | 0.014   | 0.48    | A                     | ND     | 1    | Well/MWD Blend |
| 5              | D    |           | Reservoir               | 3/1/2017    | 16.4 | 7.98 | 3.2            | 0.06          | 0.62          | 0.02         | 0.013   | 0.44    | A                     | ND     | 1    | Well/MWD Blend |
| 6              | D    | S13-001   | 1912 W 259th Pl         | 3/1/2017    | 15.7 | 8.72 | 2.30           | 0.11          | 0.44          | 0.00         | 0.015   | 0.75    | A                     | ND     | 2    | MWD Only       |
| 7              | D    | S13-002   | 26314 S Monte Vista Ave | 3/1/2017    | 13.3 | 8.53 | 2.00           | 0.14          | 0.41          | 0.00         | 0.019   | 0.70    | A                     | ND     | 3    | MWD Only       |
| 8              | D    | S13-005   | 2500 PCH                | 3/1/2017    | 19.4 | 8.45 | 2.80           | 0.11          | 0.43          | 0.00         | 0.012   | 0.75    | A                     | ND     | 2    | MWD Only       |

|   |   |         |                         |          |      |      |      |      |      |      |       |      |   |    |   |                |
|---|---|---------|-------------------------|----------|------|------|------|------|------|------|-------|------|---|----|---|----------------|
| 1 | D | S13-003 | 1948 W 252nd St         | 3/8/2017 | 16.5 | 7.68 | 2.70 | 0.10 | 0.66 | 0.01 | 0.015 | ND   | A | ND | 1 | Well/MWD Blend |
| 2 | D | S13-004 | 24632 S Moon Ave        | 3/8/2017 | 16.6 | 8.06 | 2.70 | 0.09 | 0.50 | 0.00 | 0.010 | 0.40 | A | ND | 1 | Well/MWD Blend |
| 3 | D | S13-008 | 25417 Pennsylvania Ave  | 3/8/2017 | 18.6 | 8.01 | 2.80 | 0.19 | 0.44 | 0.00 | 0.008 | ND   | A | ND | 1 | Well/MWD Blend |
| 4 | D | A       | 2052 Dawn St            | 3/8/2017 | 17.5 | 7.21 | 2.01 | 0.16 | 0.72 | 0.00 | 0.013 | ND   | A | 3  | 1 | Well/MWD Blend |
| 5 | D |         | Reservoir               | 3/8/2017 | 18.7 | 8.17 | 2.91 | 0.05 | 0.52 | 0.02 | 0.009 | ND   | A | ND | 1 | Well/MWD Blend |
| 6 | D | S13-001 | 1912 W 259th Pl         | 3/8/2017 | 17.4 | 8.54 | 1.41 | 0.03 | 0.50 | 0.03 | 0.011 | 0.61 | A | ND | 2 | MWD Only       |
| 7 | D | S13-002 | 26314 S Monte Vista Ave | 3/8/2017 | 17.7 | 8.54 | 1.97 | 0.08 | 0.45 | 0.00 | 0.013 | 0.61 | A | ND | 3 | MWD Only       |
| 8 | D | S13-005 | 2500 PCH                | 3/8/2017 | 17.5 | 8.38 | 2.10 | 0.02 | 0.49 | 0.04 | 0.009 | 0.73 | A | ND | 2 | MWD Only       |

|   |   |         |                         |           |      |      |      |      |      |      |       |      |   |    |   |                |
|---|---|---------|-------------------------|-----------|------|------|------|------|------|------|-------|------|---|----|---|----------------|
| 1 | D | S13-003 | 1948 W 252nd St         | 3/15/2017 | 18.4 | 7.50 | 3.10 | 0.06 | 0.58 | 0.00 | 0.012 | ND   | A | ND | 1 | Well/MWD Blend |
| 2 | D | S13-004 | 24632 S Moon Ave        | 3/15/2017 | 18.0 | 7.93 | 3.20 | 0.03 | 0.58 | 0.00 | 0.016 | ND   | A | ND | 1 | Well/MWD Blend |
| 3 | D | S13-008 | 25417 Pennsylvania Ave  | 3/15/2017 | 18.9 | 8.03 | 3.10 | 0.13 | 0.62 | 0.00 | 0.016 | ND   | A | ND | 1 | Well/MWD Blend |
| 4 | D | A       | 2052 Dawn St            | 3/15/2017 | 19.1 | 7.22 | 2.80 | 0.11 | 0.54 | 0.00 | 0.015 | ND   | A | ND | 1 | Well/MWD Blend |
| 5 | D |         | Reservoir               | 3/15/2017 | 18.6 | 7.91 | 3.3  | 0.14 | 0.62 | 0.04 | 0.012 | ND   | A | ND | 1 | Well/MWD Blend |
| 6 | D | S13-001 | 1912 W 259th Pl         | 3/15/2017 | 16.5 | 8.43 | 2.50 | 0.04 | 0.44 | 0.02 | 0.012 | 0.51 | A | ND | 2 | MWD Only       |
| 7 | D | S13-002 | 26314 S Monte Vista Ave | 3/15/2017 | 16.4 | 8.36 | 2.40 | 0.05 | 0.45 | 0.00 | 0.017 | 0.51 | A | ND | 3 | MWD Only       |
| 8 | D | S13-005 | 2500 PCH                | 3/15/2017 | 17.9 | 8.37 | 2.30 | 0.05 | 0.47 | 0.04 | 0.018 | 0.51 | A | ND | 2 | MWD Only       |

|   |   |         |                         |           |      |      |      |      |      |      |       |      |   |    |   |                |
|---|---|---------|-------------------------|-----------|------|------|------|------|------|------|-------|------|---|----|---|----------------|
| 1 | D | S13-003 | 1948 W 252nd St         | 3/22/2017 | 18.3 | 7.96 | 3.30 | 0.06 | 0.62 | 0.00 | 0.012 | ND   | A | ND | 1 | Well/MWD Blend |
| 2 | D | S13-004 | 24632 S Moon Ave        | 3/22/2017 | 17.8 | 7.96 | 3.40 | 0.08 | 0.62 | 0.00 | 0.013 | ND   | A | ND | 1 | Well/MWD Blend |
| 3 | D | S13-008 | 25417 Pennsylvania Ave  | 3/22/2017 | 18.6 | 7.99 | 3.60 | 0.14 | 0.64 | 0.00 | 0.013 | ND   | A | ND | 1 | Well/MWD Blend |
| 4 | D | A       | 2052 Dawn St            | 3/22/2017 | 17.1 | 8.00 | 2.70 | 0.15 | 0.62 | 0.00 | 0.013 | ND   | A | 2  | 1 | Well/MWD Blend |
| 5 | D |         | Reservoir               | 3/22/2017 | 18.6 | 7.98 | 3.40 | 0.07 | 0.64 | 0.02 | 0.011 | ND   | A | ND | 1 | Well/MWD Blend |
| 6 | D | S13-001 | 1912 W 259th Pl         | 3/22/2017 | 17.5 | 8.75 | 2.40 | 0.08 | 0.43 | 0.00 | 0.005 | 0.71 | A | ND | 2 | MWD Only       |
| 7 | D | S13-002 | 26314 S Monte Vista Ave | 3/22/2017 | 17.4 | 8.78 | 2.20 | 0.09 | 0.44 | 0.00 | 0.012 | 0.70 | A | ND | 3 | MWD Only       |
| 8 | D | S13-005 | 2500 PCH                | 3/22/2017 | 17.1 | 8.53 | 2.20 | 0.08 | 0.45 | 0.01 | 0.009 | 0.70 | A | ND | 2 | MWD Only       |

|   |   |         |                         |           |      |      |      |      |      |      |       |      |   |    |   |                |
|---|---|---------|-------------------------|-----------|------|------|------|------|------|------|-------|------|---|----|---|----------------|
| 1 | D | S13-003 | 1948 W 252nd St         | 3/29/2017 | 18.6 | 7.63 | 3.10 | 0.16 | 0.68 | 0.00 | 0.011 | 0.41 | A | ND | 1 | Well/MWD Blend |
| 2 | D | S13-004 | 24632 S Moon Ave        | 3/29/2017 | 18.4 | 7.77 | 3.00 | 0.15 | 0.70 | 0.00 | 0.014 | 0.41 | A | ND | 1 | Well/MWD Blend |
| 3 | D | S13-008 | 25417 Pennsylvania Ave  | 3/29/2017 | 18.8 | 7.91 | 3.10 | 0.09 | 0.72 | 0.00 | 0.013 | ND   | A | ND | 1 | Well/MWD Blend |
| 4 | D | A       | 2052 Dawn St            | 3/29/2017 | 17.4 | 7.33 | 2.40 | 0.06 | 0.62 | 0.00 | 0.015 | 0.43 | A | ND | 1 | Well/MWD Blend |
| 5 | D |         | Reservoir               | 3/29/2017 | 19.7 | 7.88 | 3.20 | 0.05 | 0.74 | 0.09 | 0.013 | 0.40 | A | ND | 1 | Well/MWD Blend |
| 6 | D | S13-001 | 1912 W 259th Pl         | 3/29/2017 | 19.2 | 8.41 | 2.20 | 0.11 | 0.54 | 0.00 | 0.014 | 0.62 | A | 1  | 2 | MWD Only       |
| 7 | D | S13-002 | 26314 S Monte Vista Ave | 3/29/2017 | 19.4 | 8.55 | 2.20 | 0.08 | 0.53 | 0.06 | 0.011 | 0.62 | A | ND | 3 | MWD Only       |
| 8 | D | S13-005 | 2500 PCH                | 3/29/2017 | 18.4 | 8.35 | 2.20 | 0.08 | 0.50 | 0.03 | 0.009 | 0.62 | 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.