

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 8E04004

Report Date: 5/10/2018

Project: City of Paramount

Received Date: 5/7/2018

Turnaround Time: 5 workdays

Phones: (562) 275-4252

Fax: (562) 921-6101

Attn: Charlene King

P.O. #:

Client: Water Replenishment District
4040 Paramount Blvd.
Lakewood, CA 90712

Billing Code:

DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

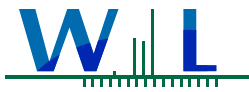
Dear Charlene King,

Enclosed are the results of analyses for samples received 5/07/18 with the Chain-of-Custody document. The samples were received in good condition, at 3.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Valerie Rejuso
Project Manager





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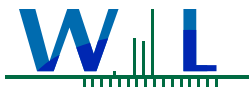
Reported:

05/10/2018 10:44

Project Manager: Charlene King

Sample Summary

| Sample Name | Sampled By | Lab ID | Matrix | Sampled | Qualifiers |
|---------------------------------------------|----------------|------------|--------|----------------|------------|
| 1910105020/EPTDS from MWD | Carlos Navarro | 8E04004-01 | Water | 05/07/18 10:55 | |
| 1910105023W14D/Well 14 Disinfection Station | Carlos Navarro | 8E04004-03 | Water | 05/07/18 10:08 | |
| 1910105994/DSMRT for Well 15 | Carlos Navarro | 8E04004-04 | Water | 05/07/18 10:47 | |
| 1910105024W15D/Well 15 Disinfection Station | Carlos Navarro | 8E04004-05 | Water | 05/07/18 11:06 | |
| 1910105991/DSMRT for MWD | Carlos Navarro | 8E04004-06 | Water | 05/07/18 10:41 | |
| 1910105992/DSMRT for Well 13 | Carlos Navarro | 8E04004-07 | Water | 05/07/18 10:27 | |
| 1910105993/DSMRT for Well 14 | Carlos Navarro | 8E04004-08 | Water | 05/07/18 10:18 | |



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Sample Results

Sample: 1910105020/EPTDS from MWD
8E04004-01 (Water) Sampled: 05/07/18 10:55 by Carlos Navarro

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|----------------------------------|-------------------|-------------|--------------------------|--------------|----------------|-----------|
| Hexavalent Chromium by IC | | | | | | |
| Method: EPA 218.6 | Batch ID: W8E0508 | Instr: LC13 | Prepared: 05/09/18 09:05 | Analyst: dil | | |
| Chromium 6+ | 0.10 | 0.10 | ug/l | 5 | 05/09/18 14:46 | |

Sample: 1910105023W14D/Well 14 Disinfection Station
8E04004-03 (Water) Sampled: 05/07/18 10:08 by Carlos Navarro

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|----------------------------------|-------------------|-------------|--------------------------|--------------|----------------|-----------|
| Hexavalent Chromium by IC | | | | | | |
| Method: EPA 218.6 | Batch ID: W8E0508 | Instr: LC13 | Prepared: 05/09/18 09:05 | Analyst: dil | | |
| Chromium 6+ | 0.11 | 0.10 | ug/l | 5 | 05/09/18 14:58 | |

Sample: 1910105994/DSMRT for Well 15
8E04004-04 (Water) Sampled: 05/07/18 10:47 by Carlos Navarro

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|----------------------------------|-------------------|-------------|--------------------------|--------------|----------------|-----------|
| Hexavalent Chromium by IC | | | | | | |
| Method: EPA 218.6 | Batch ID: W8E0508 | Instr: LC13 | Prepared: 05/09/18 09:05 | Analyst: dil | | |
| Chromium 6+ | 0.10 | 0.10 | ug/l | 5 | 05/09/18 15:10 | |

Sample: 1910105024W15D/Well 15 Disinfection Station
8E04004-05 (Water) Sampled: 05/07/18 11:06 by Carlos Navarro

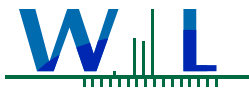
| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|----------------------------------|-------------------|-------------|--------------------------|--------------|----------------|-----------|
| Hexavalent Chromium by IC | | | | | | |
| Method: EPA 218.6 | Batch ID: W8E0508 | Instr: LC13 | Prepared: 05/09/18 09:05 | Analyst: dil | | |
| Chromium 6+ | 0.10 | 0.10 | ug/l | 5 | 05/09/18 15:22 | |

Sample: 1910105991/DSMRT for MWD
8E04004-06 (Water) Sampled: 05/07/18 10:41 by Carlos Navarro

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|----------------------------------|-------------------|-------------|--------------------------|--------------|----------------|-----------|
| Hexavalent Chromium by IC | | | | | | |
| Method: EPA 218.6 | Batch ID: W8E0508 | Instr: LC13 | Prepared: 05/09/18 09:05 | Analyst: dil | | |
| Chromium 6+ | 0.12 | 0.10 | ug/l | 5 | 05/09/18 15:33 | |

Sample: 1910105992/DSMRT for Well 13
8E04004-07 (Water) Sampled: 05/07/18 10:27 by Carlos Navarro

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|----------------------------------|-------------------|-------------|--------------------------|--------------|----------------|-----------|
| Hexavalent Chromium by IC | | | | | | |
| Method: EPA 218.6 | Batch ID: W8E0508 | Instr: LC13 | Prepared: 05/09/18 09:05 | Analyst: dil | | |
| Chromium 6+ | ND | 0.10 | ug/l | 5 | 05/09/18 15:45 | M-05 |



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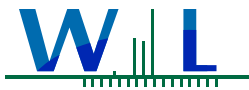
Sample Results

(Continued)

Sample: 1910105993/DSMRT for Well 14
8E04004-08 (Water)

Sampled: 05/07/18 10:18 by Carlos Navarro

| Analyte | Result | MRL | Units | Dil | Analyzed | Qualifier |
|----------------------------------|--------------------------|--------------------|---------------------------------|---------------------|----------------|-----------|
| Hexavalent Chromium by IC | | | | | | |
| Method: EPA 218.6 | Batch ID: W8E0508 | Instr: LC13 | Prepared: 05/09/18 09:05 | Analyst: dil | | |
| Chromium 6+ | 0.25 | 0.10 | ug/l | 5 | 05/09/18 15:57 | |



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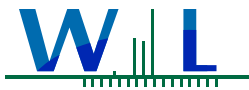
05/10/2018 10:44

Project Manager: Charlene King

Quality Control Results

Hexavalent Chromium by IC

| Analyte | Result | MRL | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|----------------------------------------|--------|-------|-------|------------------------------------------|---------------|------|--------|-----|-----------|-----------|
| Batch: W8E0508 - EPA 218.6 | | | | | | | | | | |
| Blank (W8E0508-BLK1) | | | | Prepared & Analyzed: 05/09/18 | | | | | | |
| Chromium 6+ | ND | 0.020 | ug/l | | | | | | | |
| LCS (W8E0508-BS1) | | | | Prepared & Analyzed: 05/09/18 | | | | | | |
| Chromium 6+ | 4.99 | 0.020 | ug/l | 5.00 | | 100 | 90-110 | | | |
| Matrix Spike (W8E0508-MS1) | | | | Prepared & Analyzed: 05/09/18 | | | | | | |
| Source: 8E08041-01 | | | | | | | | | | |
| Chromium 6+ | 9.38 | 0.020 | ug/l | 5.00 | 4.40 | 100 | 88-112 | | | |
| Matrix Spike (W8E0508-MS2) | | | | Prepared & Analyzed: 05/09/18 | | | | | | |
| Source: 8E08042-01 | | | | | | | | | | |
| Chromium 6+ | 9.38 | 0.020 | ug/l | 5.00 | 4.44 | 99 | 88-112 | | | |
| Matrix Spike Dup (W8E0508-MSD1) | | | | Prepared & Analyzed: 05/09/18 | | | | | | |
| Source: 8E08041-01 | | | | | | | | | | |
| Chromium 6+ | 9.54 | 0.020 | ug/l | 5.00 | 4.40 | 103 | 88-112 | 2 | 10 | |
| Matrix Spike Dup (W8E0508-MSD2) | | | | Prepared & Analyzed: 05/09/18 | | | | | | |
| Source: 8E08042-01 | | | | | | | | | | |
| Chromium 6+ | 9.45 | 0.020 | ug/l | 5.00 | 4.44 | 100 | 88-112 | 0.7 | 10 | |



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Notes and Definitions

| Item | Definition |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M-05 | Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| ND | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL. |
| Dil | Dilution |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |
| MDL | Method Detection Limit |
| MRL | The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR) |
| MDA | Minimum Detectable Activity |
| NR | Not Reportable |
| TIC | Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown. |

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

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

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

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

CHAIN OF CUSTODY RECORD

8004004

14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

STANDARD

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| | | | | | | | | | | | | | |
|-------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|--------------------|--|--|--|--|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| CLIENT NAME: Water Replenishment District | | PROJECT: City of Paramount | | ANALYSES REQUESTED | | | | | | | | SPECIAL HANDLING | |
| ADDRESS: 4040 Paramount Blvd Lakewood, Ca 90712 | | PHONE: 562-921-5521 FAX: EMAIL: cking@wrd.org | | C16 218.6 | | | | | | | | <input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input checked="" type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input type="checkbox"/> 10 - 15 Business Days <input type="checkbox"/> QA/QC Data Package | |
| PROJECT MANAGER: Charlene King | | SAMPLER: Weck <i>Chubser</i> | | | | | | | | | | Charges will apply for weekends/holidays | |

| ID# (For lab Use Only) | DATE SAMPLED | TIME SAMPLED | SMPL TYPE | SAMPLE IDENTIFICATION/SITE LOCATION | # OF CONT. | ANALYSES REQUESTED | | | | | | | | COMMENTS | |
|---------------------------|-----------------|-----------------|--------------|--------------------------------------------------------|---------------|--------------------|--|--|--|--|--|--|--|----------|------------------------------|
| | 5/7/18 | 1055 | GW | 1910105020/EPTDS from MWD | 1 | x | | | | | | | | | Fld Temp 21.8° |
| | | | GW | 1910105022W13D/Well 13 Disinfection Station | 1 | x | | | | | | | | | Fld Temp <i>not reported</i> |
| | | 1008 | GW | 1910105023W14D/Well 14 Disinfection Station | 1 | x | | | | | | | | | Fld Temp 21.7° |
| | | 1047 | GW | 1910105994/DSMRT for Well 15 1910105024W15D/Well 15 | 1 | x | | | | | | | | | Fld Temp 23.1° |
| | | 1106 | GW | Disinfection Station | 1 | x | | | | | | | | | Fld Temp 22.6° |
| | | 1041 | GW | 1910105991/DSMRT for MWD | 1 | x | | | | | | | | | Fld Temp 23.0° |
| | | 1027 | GW | 1910105992/DSMRT for Well 13 | 1 | x | | | | | | | | | Fld Temp 22.9° |
| | | 1018 | GW | 1910105993/DSMRT for Well 14 | 1 | x | | | | | | | | | Fld Temp 23.1 |

| | | | | | |
|-----------------------------------|---------------------------|----------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY <i>Chubser</i> | DATE / TIME 5/7/18 325 | RECEIVED BY <i>Arms</i> | 5/7/18 15:25 | SAMPLE CONDITION: Actual Temperature: 3.2 <input type="checkbox"/> Received On Ice <input type="checkbox"/> Preserved <input type="checkbox"/> Evidence Seals Present <input type="checkbox"/> Container Attacked <input type="checkbox"/> Preserved at Lab | SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix |
| RELINQUISHED BY | DATE / TIME | RECEIVED BY | | | |
| RELINQUISHED BY | DATE / TIME | RECEIVED BY | | | |

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