

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 7K02002

Report Date: 11/13/2017

Project: City of Paramount

Received Date: 11/6/2017

Turnaround Time: 4 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 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 •
LACSD #10143 • 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.

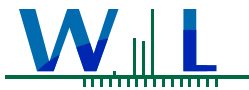
Dear Charlene King,

Enclosed are the results of analyses for samples received 11/06/17 with the Chain-of-Custody document. The samples were received in good condition, at 0.4 °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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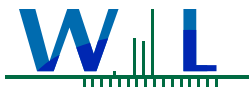
Reported:

11/13/2017 11:11

Project Manager: Charlene King

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
1910105020/EPTDS from MWD	Carlos Navarro	7K02002-01	Water	11/06/17 11:34	
1910105022W13D/Well 13 Disinfection Station	Carlos Navarro	7K02002-02	Water	11/06/17 11:05	
1910105023W14D/Well 14 Disinfection Station	Carlos Navarro	7K02002-03	Water	11/06/17 10:31	
1910105994/DSMRT for Well 15	Carlos Navarro	7K02002-04	Water	11/06/17 11:25	
1910105024W15D/Well 15 Disinfection Station	Carlos Navarro	7K02002-05	Water	11/06/17 11:48	
1910105991/DSMRT for MWD	Carlos Navarro	7K02002-06	Water	11/06/17 11:16	
1910105992/DSMRT for Well 13	Carlos Navarro	7K02002-07	Water	11/06/17 10:53	
1910105993/DSMRT for Well 14	Carlos Navarro	7K02002-08	Water	11/06/17 10:39	



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Sample Results

Sample: 1910105020/EPTDS from MWD
7K02002-01 (Water) Sampled: 11/06/17 11:34 by Carlos Navarro

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0342	Prepared: 11/07/17 10:08				Analyst: dil
Chromium 6+	ND	0.20	ug/l	10	11/07/17 14:49	M-04

Sample: 1910105022W13D/Well 13 Disinfection Station
7K02002-02 (Water) Sampled: 11/06/17 11:05 by Carlos Navarro

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0342	Prepared: 11/07/17 10:08				Analyst: dil
Chromium 6+	ND	0.20	ug/l	10	11/07/17 14:38	M-04

Sample: 1910105023W14D/Well 14 Disinfection Station
7K02002-03RE1 (Water) Sampled: 11/06/17 10:31 by Carlos Navarro

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0425	Prepared: 11/08/17 08:52				Analyst: dil
Chromium 6+	ND	0.20	ug/l	10	11/08/17 12:57	

Sample: 1910105994/DSMRT for Well 15
7K02002-04 (Water) Sampled: 11/06/17 11:25 by Carlos Navarro

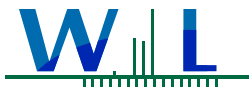
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0342	Prepared: 11/07/17 10:08				Analyst: dil
Chromium 6+	ND	0.20	ug/l	10	11/07/17 18:38	M-04

Sample: 1910105024W15D/Well 15 Disinfection Station
7K02002-05 (Water) Sampled: 11/06/17 11:48 by Carlos Navarro

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0342	Prepared: 11/07/17 10:08				Analyst: dil
Chromium 6+	ND	0.20	ug/l	10	11/07/17 18:50	M-04

Sample: 1910105991/DSMRT for MWD
7K02002-06 (Water) Sampled: 11/06/17 11:16 by Carlos Navarro

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0342	Prepared: 11/07/17 10:08				Analyst: dil
Chromium 6+	1.1	0.20	ug/l	10	11/07/17 19:01	



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Sample Results

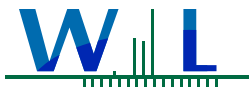
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Sample: 1910105992/DSMRT for Well 13
7K02002-07 (Water) Sampled: 11/06/17 10:53 by Carlos Navarro

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0342	Prepared: 11/07/17 10:08	Analyst: dil			
Chromium 6+	ND	0.20	ug/l	10	11/07/17 19:13	M-04

Sample: 1910105993/DSMRT for Well 14
7K02002-08RE1 (Water) Sampled: 11/06/17 10:39 by Carlos Navarro

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W7K0425	Prepared: 11/08/17 08:52	Analyst: dil			
Chromium 6+	0.22	0.20	ug/l	10	11/08/17 13:09	



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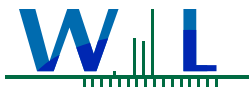
11/13/2017 11:11

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: W7K0342 - EPA 218.6										
Blank (W7K0342-BLK1)				Prepared & Analyzed: 11/07/17						
Chromium 6+	ND	0.020	ug/l							
LCS (W7K0342-BS1)				Prepared & Analyzed: 11/07/17						
Chromium 6+	5.12	0.020	ug/l	5.00		102	90-110			
Matrix Spike (W7K0342-MS1)				Source: 7K02002-01			Prepared & Analyzed: 11/07/17			
Chromium 6+	51.3	0.20	ug/l	50.0	0.171	102	88-112			
Matrix Spike (W7K0342-MS2)				Source: 7K02002-02			Prepared & Analyzed: 11/07/17			
Chromium 6+	51.8	0.20	ug/l	50.0	0.194	103	88-112			
Matrix Spike Dup (W7K0342-MSD1)				Source: 7K02002-01			Prepared & Analyzed: 11/07/17			
Chromium 6+	51.0	0.20	ug/l	50.0	0.171	102	88-112	0.4	10	
Matrix Spike Dup (W7K0342-MSD2)				Source: 7K02002-02			Prepared & Analyzed: 11/07/17			
Chromium 6+	52.6	0.20	ug/l	50.0	0.194	105	88-112	2	10	
Batch: W7K0425 - EPA 218.6										
Blank (W7K0425-BLK1)				Prepared & Analyzed: 11/08/17						
Chromium 6+	ND	0.020	ug/l							
LCS (W7K0425-BS1)				Prepared & Analyzed: 11/08/17						
Chromium 6+	5.07	0.020	ug/l	5.00		101	90-110			
Matrix Spike (W7K0425-MS1)				Source: 7K02002-03RE1			Prepared & Analyzed: 11/08/17			
Chromium 6+	51.4	0.20	ug/l	50.0	0.189	103	88-112			
Matrix Spike Dup (W7K0425-MSD1)				Source: 7K02002-03RE1			Prepared & Analyzed: 11/08/17			
Chromium 6+	51.1	0.20	ug/l	50.0	0.189	102	88-112	0.6	10	



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Notes and Definitions

Item	Definition
M-04	Due to the nature of matrix interferences, sample extract 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

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

STANDARD **7X02002**

Page **1** Of **1**

CLIENT NAME: Water Replenishment District	PROJECT: City of Paramount	ANALYSES REQUESTED	SPECIAL HANDLING <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
ADDRESS: 4040 Paramount Blvd Lakewood, Ca 90712	PHONE: 562-921-5521 FAX: EMAIL: cking@wrdd.org		
PROJECT MANAGER: Charlene King	SAMPLER: Weck <i>Carlson</i>		

ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	C16 218.6										Charges will apply for weekends/holidays							
	11/6/17	1134	GW	1910105020/EPTDS from MWD	1	x																	Fld Temp 22.9C
		1105	GW	1910105022W13D/Well 13 Disinfection Station	1	x																	Fld Temp 21.9C
		1031	GW	1910105023W14D/Well 14 Disinfection Station	1	x																	Fld Temp 20.7C
		1125	GW	1910105994/DSMRT for Well 15 1910105024W15D/Well 15	1	x																	Fld Temp 24.0C
		1148	GW	Disinfection Station	1	x																	Fld Temp 22.8C
		1116	GW	1910105991/DSMRT for MWD	1	x																	Fld Temp 24.1C
		1053	GW	1910105992/DSMRT for Well 13	1	x																	Fld Temp 24.0C
		1039	GW	1910105993/DSMRT for Well 14	1	x																	Fld Temp 24.3C

RELINQUISHED BY <i>[Signature]</i>	DATE / TIME 11/6/17 3:15	RECEIVED BY <i>[Signature]</i>	11/6/17 15:15	SAMPLE CONDITION: Actual Temperature: 0.4°C Received On Ice <input checked="" type="checkbox"/> Y / N Preserved <input type="checkbox"/> Y / N Evidence Seals Present <input type="checkbox"/> Y / N Container Attacked <input type="checkbox"/> Y / N Preserved at Lab <input type="checkbox"/> Y / N	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			