

Certificate of Analysis

Report Date: 04/26/16 15:07
Received Date: 04/13/16 10:03
Turnaround Time: Normal

Project: Mr. Huang, Vejar Rd. Walnut

Phones: (909) 628-4631

Fax:

P.O. #:

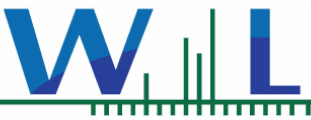
Attn: Roger Chao

Client: Advanced Water Treatment, Inc.
13505 Yorba Ave Unit B
Chino, CA 91710

Dear Roger Chao :

Enclosed are the results of analyses for samples received 4/13/2016 with the Chain of Custody document. The samples were received in good condition, at 2.6 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Table with columns: Lab ID, Sample ID, Sample 2, Matrix, Sampled, Sample Note, Analyte, Result, MDL, MRL, Units, Dil, Method, Prepared, Analyzed, Batch, Qualifier. Includes rows for various analytes like Arsenic, Lead, Uranium, Chromium, Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, THMs, and Gross Alpha.



## Certificate of Analysis

## Quality Control Section

## Hexavalent Chromium by IC - Quality Control

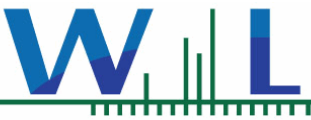
## Batch W6D0584 - EPA 218.6

Blank (W6D0584-BLK1)					Prepared: 04/12/16	Analyzed: 04/13/16 11:41				
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Chromium 6+		ND		ug/l						
LCS (W6D0584-BS1)					Prepared: 04/12/16	Analyzed: 04/13/16 11:53				
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Chromium 6+		4.92		ug/l	5.00	98	90-110			
Matrix Spike (W6D0584-MS1)					Source: 6D08064-01	Prepared: 04/12/16	Analyzed: 04/13/16 13:30			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Chromium 6+	0.0456	4.70		ug/l	5.00	93	88-112			
Matrix Spike (W6D0584-MS2)					Source: 6D13008-01	Prepared: 04/12/16	Analyzed: 04/13/16 15:43			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Chromium 6+	0.294	5.07		ug/l	5.00	95	88-112			
Matrix Spike Dup (W6D0584-MSD1)					Source: 6D08064-01	Prepared: 04/12/16	Analyzed: 04/13/16 13:42			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Chromium 6+	0.0456	5.01		ug/l	5.00	99	88-112	6	10	
Matrix Spike Dup (W6D0584-MSD2)					Source: 6D13008-01	Prepared: 04/12/16	Analyzed: 04/13/16 15:55			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Chromium 6+	0.294	5.12		ug/l	5.00	96	88-112	0.9	10	

## Metals by EPA 200 Series Methods - Quality Control

## Batch W6D1280 - EPA 200.8

Blank (W6D1280-BLK1)					Prepared: 04/25/16	Analyzed: 04/25/16 11:28				
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Arsenic, Total		ND		ug/l						
Lead, Total		ND		ug/l						
LCS (W6D1280-BS1)					Prepared: 04/25/16	Analyzed: 04/25/16 11:31				
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Arsenic, Total		51.8		ug/l	50.0	104	85-115			
Lead, Total		50.9		ug/l	50.0	102	85-115			
Matrix Spike (W6D1280-MS1)					Source: 6D13008-01	Prepared: 04/25/16	Analyzed: 04/25/16 11:33			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Arsenic, Total	2.29	57.9		ug/l	50.0	111	70-130			
Lead, Total	0.673	50.5		ug/l	50.0	100	70-130			
Matrix Spike Dup (W6D1280-MSD1)					Source: 6D13008-01	Prepared: 04/25/16	Analyzed: 04/25/16 11:34			
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Arsenic, Total	2.29	55.2		ug/l	50.0	106	70-130	5	30	



**Certificate of Analysis**

**Metals by EPA 200 Series Methods - Quality Control**

**Batch W6D1280 - EPA 200.8**

<b>Matrix Spike Dup (W6D1280-MSD1)</b>		<b>Source: 6D13008-01</b>			<b>Prepared: 04/25/16</b>		<b>Analyzed: 04/25/16 11:34</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lead, Total	0.673	47.1		ug/l	50.0	93	70-130	7	30

**Radiological Parameters by APHA/EPA Methods - Quality Control**

**Batch W6D0796 - SM 7110C**

<b>Blank (W6D0796-BLK1)</b>					<b>Prepared: 04/15/16</b>		<b>Analyzed: 04/18/16 08:48</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Alpha		-0.628		pCi/L					
Counting Error (+/-):	0.088	MDA: 0.01							

<b>LCS (W6D0796-BS1)</b>					<b>Prepared: 04/15/16</b>		<b>Analyzed: 04/18/16 08:48</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Alpha		4.71		pCi/L	4.79	98	55-149		
Counting Error (+/-):	0.281	MDA: 0.01							

<b>LCS Dup (W6D0796-BSD1)</b>					<b>Prepared: 04/15/16</b>		<b>Analyzed: 04/18/16 11:03</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Gross Alpha		5.01		pCi/L	4.79	105	55-149	6	30
Counting Error (+/-):	0.292	MDA: 0.01							

**Batch W6D1304 - EPA 200.8**

<b>Blank (W6D1304-BLK1)</b>					<b>Prepared: 04/25/16</b>		<b>Analyzed: 04/25/16 14:16</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Uranium Rad		ND		pCi/L					

<b>LCS (W6D1304-BS1)</b>					<b>Prepared: 04/25/16</b>		<b>Analyzed: 04/25/16 14:18</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Uranium Rad		34.2		pCi/L	33.5	102	85-115		

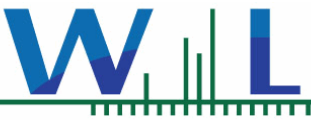
<b>Matrix Spike (W6D1304-MS1)</b>		<b>Source: 6D13048-03</b>			<b>Prepared: 04/25/16</b>		<b>Analyzed: 04/25/16 14:20</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Uranium Rad	0.605	33.9		pCi/L	33.5	99	70-130		

<b>Matrix Spike Dup (W6D1304-MSD1)</b>		<b>Source: 6D13048-03</b>			<b>Prepared: 04/25/16</b>		<b>Analyzed: 04/25/16 14:21</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Uranium Rad	0.605	32.8		pCi/L	33.5	96	70-130	3	30

**Volatile Organic Compounds by EPA Method 524.2 - Quality Control**

**Batch W6D1054 - EPA 524.2**

<b>Blank (W6D1054-BLK1)</b>					<b>Prepared: 04/20/16</b>		<b>Analyzed: 04/20/16 16:39</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		8.19		ug/l	10.0	82	70-130		
Surrogate: 4-Bromofluorobenzene		8.26		ug/l	10.0	83	70-130		
Chloroform		ND		ug/l					
Bromodichloromethane		ND		ug/l					



**Certificate of Analysis**

**Volatile Organic Compounds by EPA Method 524.2 - Quality Control**

**Batch W6D1054 - EPA 524.2**

**Blank (W6D1054-BLK1)**

Prepared: 04/20/16 Analyzed: 04/20/16 16:39

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Dibromochloromethane .....		ND		ug/l					
Bromoform .....		ND		ug/l					
THMs, Total .....		ND		ug/l					

**LCS (W6D1054-BS1)**

Prepared: 04/20/16 Analyzed: 04/20/16 14:41

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		13.4	S-11	ug/l	10.0	134	70-130		
Surrogate: 4-Bromofluorobenzene		12.8		ug/l	10.0	128	70-130		
Chloroform .....		5.80		ug/l	6.00	97	70-130		
Bromodichloromethane .....		6.13		ug/l	6.00	102	70-130		
Dibromochloromethane .....		6.08		ug/l	6.00	101	70-130		
Bromoform .....		5.71		ug/l	6.00	95	70-130		

**LCS Dup (W6D1054-BSD1)**

Prepared: 04/20/16 Analyzed: 04/20/16 15:10

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		13.2	S-11	ug/l	10.0	132	70-130		
Surrogate: 4-Bromofluorobenzene		12.6		ug/l	10.0	126	70-130		
Chloroform .....		5.98		ug/l	6.00	100	70-130	3	30
Bromodichloromethane .....		6.30		ug/l	6.00	105	70-130	3	30
Dibromochloromethane .....		6.05		ug/l	6.00	101	70-130	0.5	30
Bromoform .....		5.66		ug/l	6.00	94	70-130	0.9	30

## Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.  
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.  
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).  
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

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

**Authorized Signature**

Contact: Valerie Rejuso  
(Project Manager)



ELAP # 1132  
LACSD # 10143  
NELAC #4047-002 ORELAP

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

- S-11** Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ND** NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub** Subcontracted analysis, original report enclosed.
- DL** Method Detection Limit
- RL** Method Reporting Limit
- MDA** Minimum Detectable Activity
- NR** Not Reportable