

Work Orders: 9A12002

Project: Irwindale SW Outfall Monitoring

Attn: Edmond G. Suher

Client: AEI-CASC Consulting  
2740 W. Magnolia Blvd., Ste.102  
Burbank, CA 91505

Report Date: 3/12/2019

Received Date: 1/12/2019

Turnaround Time: Normal

Phones: (818) 841-9004

Fax: (818) 841-8013

P.O. #:

Billing Code:

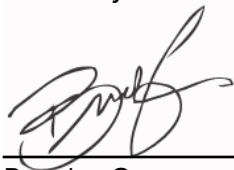
ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 •  
NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*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 Edmond G. Suher,

Enclosed are the results of analyses for samples received 1/12/19 with the Chain-of-Custody document. The samples were received in good condition, at 10.6 °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:



Brandon Gee  
Operations Manager/Senior PM





WECK LABORATORIES, INC.

AEI-CASC Consulting  
2740 W. Magnolia Blvd., Ste.102  
Burbank, CA 91505

# Certificate of Analysis

FINAL REPORT

**Project Number:** Irwindale SW Outfall Monitoring

**Reported:**

03/12/2019 10:23

**Project Manager:** Edmond G. Suher

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
BDW-027A	ES/AH	9A12002-01	Water	01/12/19 04:40	
SAWPW-074A	ES/AH	9A12002-02	Water	01/12/19 03:45	
Trip Blank	ES/AH	9A12002-03	Water	01/12/19 03:45	

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	By ANAB
<b>EPA 625.1 in Water</b>			
Naphthalene	91-20-3	✓	
Acenaphthylene	208-96-8	✓	
Acenaphthene	83-32-9	✓	
Fluorene	86-73-7	✓	
Phenanthrene	85-01-8	✓	
Anthracene	120-12-7	✓	
Fluoranthene	206-44-0	✓	
Pyrene	129-00-0	✓	
Benzo (a) anthracene	56-55-3	✓	
Chrysene	218-01-9	✓	
Benzo (b) fluoranthene	205-99-2	✓	
Benzo (k) fluoranthene	207-08-9	✓	
Benzo (a) pyrene	50-32-8	✓	
Indeno (1,2,3-cd) pyrene	193-39-5	✓	
Dibenzo (a,h) anthracene	53-70-3	✓	
Benzo (g,h,i) perylene	191-24-2	✓	
1,3-Dimethyl-2-nitrobenzene	81-20-9	✓	
Perylene-d12	1520-96-3	✓	
<b>SM 9221F in Water</b>			
E. coli		✓	



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03/12/2019 10:23

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## Sample Results

Sample: BDW-027A

Sampled: 01/12/19 4:40 by ES/AH

9A12002-01 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
Method: EPA 300.0	Batch ID: W9A0985	Instr: LC12	Prepared: 01/17/19 08:51	Analyst: jan			
Chloride, Total	2.1	0.10	0.50	mg/l	1	01/17/19 20:00	
Sulfate as SO <sub>4</sub>	2.5	0.10	0.50	mg/l	1	01/17/19 20:00	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
Method: EPA 160.4	Batch ID: W9A0689	Instr: FURN01	Prepared: 01/13/19 15:19	Analyst: sar			
Volatile Suspended Solids	25	3.1	5.0	mg/l	1	01/14/19 14:59	
Method: EPA 180.1	Batch ID: W9A0681	Instr: TURB01	Prepared: 01/13/19 11:05	Analyst: ymt			
Turbidity	16	0.024	0.10	NTU	1	01/13/19 12:31	
Method: EPA 335.4	Batch ID: W9A0828	Instr: AA01	Prepared: 01/15/19 12:03	Analyst: ymt			
Cyanide, Total	ND	2.7	5.0	ug/l	1	01/16/19 12:01	
Method: EPA 350.1	Batch ID: W9A0998	Instr: AA06	Prepared: 01/17/19 10:27	Analyst: mcs			
Ammonia as N	0.43	0.048	0.10	mg/l	1	01/18/19 17:27	
Method: EPA 351.2	Batch ID: W9A1069	Instr: AA06	Prepared: 01/18/19 11:19	Analyst: mcs			
TKN	0.66	0.050	0.10	mg/l	1	01/22/19 13:42	
Method: EPA 353.2	Batch ID: W9A0682	Instr: AA01	Prepared: 01/13/19 11:09	Analyst: ymt			
NO <sub>2</sub> +NO <sub>3</sub> as N	590	83	200	ug/l	1	01/13/19 17:05	
Method: EPA 410.4	Batch ID: W9A1714	Instr: UVVIS04	Prepared: 01/30/19 17:16	Analyst: ymt			
Chemical Oxygen Demand	51	0.73	5.0	mg/l	1	02/05/19 18:59	
Method: EPA 420.4	Batch ID: W9A1308	Instr: AA05	Prepared: 01/23/19 10:40	Analyst: mcs			
Phenolics	0.021	0.0042	0.010	mg/l	1	02/02/19 11:39	
Method: SM 2320B	Batch ID: W9A1169	Instr: PH01	Prepared: 01/21/19 13:25	Analyst: anb			
Alkalinity as CaCO <sub>3</sub>	13	0.56	2.0	mg/l	1	01/22/19 13:00	
Method: SM 2510B	Batch ID: W9A1022	Instr: PH01	Prepared: 01/17/19 13:45	Analyst: anb			
Specific Conductance (EC)	41	0.23	2.0	umhos/cm	1	01/17/19 17:45	
Method: SM 2540C	Batch ID: W9A0899	Instr: _ANALYST	Prepared: 01/15/19 19:36	Analyst: mcs			
Total Dissolved Solids	7.0	4.0	10	mg/l	1	01/16/19 18:35	J
Method: SM 2540D	Batch ID: W9A0688	Instr: OVEN11	Prepared: 01/13/19 15:15	Analyst: sar			
Total Suspended Solids	51		5	mg/l	1	01/14/19 14:59	
Method: SM 4500O-G	Batch ID: W9A0684	Instr: PH13	Prepared: 01/13/19 12:08	Analyst: sar			
Dissolved Oxygen	10.8	0.500	1.00	mg/l	1	01/13/19 12:09	*
Method: SM 5210B	Batch ID: W9A0685	Instr: PH13	Prepared: 01/13/19 12:24	Analyst: SAR			
Biochemical Oxygen Demand	9.4	2.0	2.0	mg/l	1	01/18/19 14:32	
Method: SM 5540C	Batch ID: W9A0669	Instr: UVVIS04	Prepared: 01/12/19 15:50	Analyst: mcs			
MBAS	0.30	0.019	0.050	mg/l	1	01/12/19 16:18	
<b>Hexavalent Chromium by IC</b>							
Method: EPA 218.6	Batch ID: W9A0935	Instr: LC13	Prepared: 01/16/19 11:20	Analyst: pjs			
Chromium 6+, Dissolved	0.22	0.0048	0.020	ug/l	1	01/16/19 16:20	

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Project Number: Irwindale SW Outfall Monitoring

Reported:

03/12/2019 10:23

Project Manager: Edmond G. Suher

## Sample Results

(Continued)

Sample: BDW-027A

Sampled: 01/12/19 4:40 by ES/AH

9A12002-01 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Hexavalent Chromium by IC (Continued)</b>							
Method: EPA 218.6	Batch ID: W9A0935	Instr: LC13	Prepared: 01/16/19 11:20	Analyst: pjs			
Method: EPA 218.6	Batch ID: W9A1321	Instr: LC13	Prepared: 01/23/19 13:00	Analyst: pjs			
Chromium 6+	0.51	0.0048	0.020	ug/l	1	01/23/19 15:40	
<b>Hydrocarbons by GC/FID</b>							
Method: EPA 8015B	Batch ID: W9A0706	Instr: GC04	Prepared: 01/14/19 09:04	Analyst: ars			
Diesel Range Organics	0.39	0.12	0.50	mg/l	5	01/23/19 19:31	J, M-04
Oil Range Organics	ND	1.6	2.5	mg/l	5	01/23/19 19:31	M-04
Surrogate(s)							
n-Tetracosane	103% Conc: 0.256	64-155				01/23/19 19:31	M-04
<b>Mercury - Low Level by CVAFS</b>							
Method: EPA 1631E	Batch ID: W9A0680	Instr: HG02	Prepared: 01/12/19 16:20	Analyst: map			
Mercury, Dissolved	7.8	0.31	0.50	ng/l	1	01/13/19 13:07	
Mercury, Total	16	3.1	5.0	ng/l	10	01/13/19 12:46	
<b>Metals by EPA 200 Series Methods</b>							
Method: EPA 200.7	Batch ID: [CALC]	Instr: [CALC]	Prepared: 01/15/19 10:03	Analyst: mtt			
Calcium Hardness as CaCO3	12.5		0.250	mg/l	1	01/31/19 20:38	
Method: EPA 200.7	Batch ID: W9A0808	Instr: ICP03	Prepared: 01/15/19 10:03	Analyst: mtt			
Calcium, Total	4.99	0.0160	0.100	mg/l	1	01/31/19 20:38	
Phosphorus, Dissolved	0.089	0.012	0.020	mg/l	1	01/31/19 19:57	
Phosphorus, Total	0.18	0.012	0.020	mg/l	1	01/31/19 20:38	
Method: EPA 200.8	Batch ID: W9A0807	Instr: ICPMS02	Prepared: 01/15/19 09:58	Analyst: jea			
Aluminum, Dissolved	28	1.3	5.0	ug/l	1	02/02/19 15:58	
Aluminum, Total	1100	1.3	5.0	ug/l	1	02/02/19 16:05	
Antimony, Dissolved	0.93	0.045	0.50	ug/l	1	02/02/19 15:58	
Antimony, Total	1.6	0.045	0.50	ug/l	1	02/02/19 16:05	
Arsenic, Dissolved	0.56	0.074	0.40	ug/l	1	02/02/19 15:58	
Arsenic, Total	1.1	0.074	0.40	ug/l	1	02/02/19 16:05	
Cadmium, Dissolved	ND	0.041	0.10	ug/l	1	02/05/19 13:30	
Cadmium, Total	0.15	0.041	0.10	ug/l	1	02/05/19 13:35	
Chromium, Dissolved	0.32	0.035	0.20	ug/l	1	02/05/19 13:30	
Chromium, Total	2.6	0.035	0.20	ug/l	1	02/05/19 13:35	
Copper, Dissolved	6.9	0.13	0.50	ug/l	1	02/02/19 15:58	
Copper, Total	17	0.13	0.50	ug/l	1	02/02/19 16:05	
Iron, Dissolved	28	0.91	20	ug/l	1	02/02/19 15:58	
Iron, Total	1400	0.91	20	ug/l	1	02/02/19 16:05	
Lead, Dissolved	0.25	0.031	0.20	ug/l	1	02/02/19 15:58	
Lead, Total	5.1	0.031	0.20	ug/l	1	02/02/19 16:05	



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FINAL REPORT

**Reported:**  
03/12/2019 10:23

## Sample Results

(Continued)

Sample: BDW-027A

Sampled: 01/12/19 4:40 by ES/AH

9A12002-01 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

Method: EPA 200.8	Batch ID: W9A0807	Instr: ICPMS02	Prepared: 01/15/19 09:58	Analyst: jea
Nickel, Dissolved	3.5	0.045	0.80 ug/l	1 02/02/19 15:58
Nickel, Total	6.2	0.045	0.80 ug/l	1 02/02/19 16:05
Method: EPA 200.8	Batch ID: W9B0467	Instr: ICPMS05	Prepared: 02/08/19 09:35	Analyst: jea
Zinc, Total	150	0.94	5.0 ug/l	1 02/11/19 15:11
Method: EPA 200.8	Batch ID: W9B0469	Instr: ICPMS05	Prepared: 02/08/19 09:37	Analyst: jea
Zinc, Dissolved	57	0.94	5.0 ug/l	1 02/11/19 15:52

### Microbiological Parameters by Standard Methods

Method: SM 9221F	Batch ID: W9B0083	Instr: _ANALYST	Prepared: 01/12/19 09:11	Analyst: jns	
E. coli	3300	18	MPN/100ml	10	01/24/19 18:00

### Semivolatile Organics - Low Level by Tandem GC/MS/MS

Method: EPA 625.1	Batch ID: W9A0922	Instr: GCMS15	Prepared: 01/16/19 09:26	Analyst: EFC	
Acenaphthene		ND 4.3	50 ng/l	2	02/15/19 19:14 M-02, M-04
Acenaphthylene		ND 5.2	50 ng/l	2	02/15/19 19:14 M-02, M-04
Anthracene		ND 9.1	50 ng/l	2	02/15/19 19:14 M-02, M-04
Benzo (a) anthracene		ND 7.9	50 ng/l	2	02/15/19 19:14 M-02, M-04
Benzo (a) pyrene		ND 5.8	50 ng/l	2	02/15/19 19:14 M-02, M-04
Benzo (b) fluoranthene		ND 16	50 ng/l	2	02/15/19 19:14 M-02, M-04
Benzo (g,h,i) perylene		ND 9.0	50 ng/l	2	02/15/19 19:14 M-02, M-04
Benzo (k) fluoranthene		ND 5.2	50 ng/l	2	02/15/19 19:14 M-02, M-04
Chrysene		ND 5.2	50 ng/l	2	02/15/19 19:14 M-02, M-04
Dibenzo (a,h) anthracene		ND 12	50 ng/l	2	02/15/19 19:14 M-02, M-04
Fluoranthene		ND 13	50 ng/l	2	02/15/19 19:14 M-02, M-04
Fluorene		ND 7.5	50 ng/l	2	02/15/19 19:14 M-02, M-04
Indeno (1,2,3-cd) pyrene		ND 9.9	50 ng/l	2	02/15/19 19:14 M-02, M-04
Naphthalene	15	5.3	50 ng/l	2	02/15/19 19:14 J, M-02, M-04
Phenanthrene	31	9.6	50 ng/l	2	02/15/19 19:14 J, M-02, M-04
Pyrene	9.1	6.8	50 ng/l	2	02/15/19 19:14 J, M-02, M-04

#### Surrogate(s)

<b>1,3-Dimethyl-2-nitrobenzene</b>	<b>95%</b>	<b>Conc: 474</b>	<b>50-150</b>	<b>02/15/19 19:14</b>	<b>M-02, M-04</b>
<b>Perylene-d12</b>	<b>57%</b>	<b>Conc: 283</b>	<b>50-150</b>	<b>02/15/19 19:14</b>	<b>M-02, M-04</b>



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## Sample Results

(Continued)

Sample: SAWPW-074A

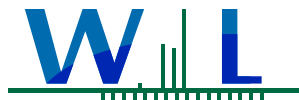
Sampled: 01/12/19 3:45 by ES/AH

9A12002-02 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Anions by IC, EPA Method 300.0</b>							
Method: EPA 300.0	Batch ID: W9A0985	Instr: LC12	Prepared: 01/17/19 08:51	Analyst: jan			
Chloride, Total	5.7	0.10	0.50	mg/l	1	01/17/19 20:00	
Sulfate as SO <sub>4</sub>	7.8	0.10	0.50	mg/l	1	01/17/19 20:00	
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
Method: EPA 160.4	Batch ID: W9A0689	Instr: FURN01	Prepared: 01/13/19 15:19	Analyst: sar			
Volatile Suspended Solids	70	3.1	5.0	mg/l	1	01/14/19 14:59	
Method: EPA 180.1	Batch ID: W9A0681	Instr: TURB01	Prepared: 01/13/19 11:05	Analyst: ymt			
Turbidity	26	0.024	0.10	NTU	1	01/13/19 12:31	
Method: EPA 335.4	Batch ID: W9A0828	Instr: AA01	Prepared: 01/15/19 12:03	Analyst: ymt			
Cyanide, Total	ND	2.7	5.0	ug/l	1	01/16/19 12:15	
Method: EPA 350.1	Batch ID: W9A0998	Instr: AA06	Prepared: 01/17/19 10:27	Analyst: mcs			
Ammonia as N	1.0	0.048	0.10	mg/l	1	01/18/19 17:27	
Method: EPA 351.2	Batch ID: W9A1069	Instr: AA06	Prepared: 01/18/19 11:19	Analyst: mcs			
TKN	2.8	0.050	0.10	mg/l	1	01/22/19 13:42	
Method: EPA 353.2	Batch ID: W9A0682	Instr: AA01	Prepared: 01/13/19 11:09	Analyst: ymt			
NO <sub>2</sub> +NO <sub>3</sub> as N	1400	83	200	ug/l	1	01/13/19 17:06	
Method: EPA 410.4	Batch ID: W9A1714	Instr: UVVIS04	Prepared: 01/30/19 17:16	Analyst: ymt			
Chemical Oxygen Demand	120	0.73	5.0	mg/l	1	02/05/19 18:59	
Method: EPA 420.4	Batch ID: W9A1308	Instr: AA05	Prepared: 01/23/19 10:40	Analyst: mcs			
Phenolics	0.013	0.0042	0.010	mg/l	1	02/02/19 11:39	
Method: SM 2320B	Batch ID: W9A1169	Instr: PH01	Prepared: 01/21/19 13:25	Analyst: anb			
Alkalinity as CaCO <sub>3</sub>	33	0.56	2.0	mg/l	1	01/22/19 13:00	
Method: SM 2510B	Batch ID: W9A1022	Instr: PH01	Prepared: 01/17/19 13:45	Analyst: anb			
Specific Conductance (EC)	97	0.23	2.0	umhos/cm	1	01/17/19 17:45	
Method: SM 2540C	Batch ID: W9A0899	Instr: _ANALYST	Prepared: 01/15/19 19:36	Analyst: mcs			
Total Dissolved Solids	46	4.0	10	mg/l	1	01/16/19 18:35	
Method: SM 2540D	Batch ID: W9A0688	Instr: OVEN11	Prepared: 01/13/19 15:15	Analyst: sar			
Total Suspended Solids	140		5	mg/l	1	01/14/19 14:59	
Method: SM 4500O-G	Batch ID: W9A0684	Instr: PH13	Prepared: 01/13/19 12:08	Analyst: sar			
Dissolved Oxygen	9.47	0.500	1.00	mg/l	1	01/13/19 12:09	*
Method: SM 5210B	Batch ID: W9A0685	Instr: PH13	Prepared: 01/13/19 12:24	Analyst: SAR			
Biochemical Oxygen Demand	28	2.0	2.0	mg/l	1	01/18/19 14:37	
Method: SM 5540C	Batch ID: W9A0669	Instr: UVVIS04	Prepared: 01/12/19 15:50	Analyst: mcs			
MBAS	0.45	0.019	0.050	mg/l	1	01/12/19 16:18	
<b>Hexavalent Chromium by IC</b>							
Method: EPA 218.6	Batch ID: W9A0935	Instr: LC13	Prepared: 01/16/19 11:20	Analyst: pjs			
Chromium 6+, Dissolved	0.18	0.0048	0.020	ug/l	1	01/16/19 16:32	

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## Sample Results

(Continued)

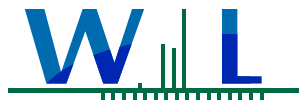
Sample: SAWPW-074A

Sampled: 01/12/19 3:45 by ES/AH

9A12002-02 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Hexavalent Chromium by IC (Continued)</b>							
Method: EPA 218.6	Batch ID: W9A0935	Instr: LC13	Prepared: 01/16/19 11:20	Analyst: pjs			
Method: EPA 218.6	Batch ID: W9A1321	Instr: LC13	Prepared: 01/23/19 13:00	Analyst: pjs			
Chromium 6+	0.43	0.024	0.10	ug/l	5	01/23/19 15:51	
<b>Hydrocarbons by GC/FID</b>							
Method: EPA 8015B	Batch ID: W9A0706	Instr: GC04	Prepared: 01/14/19 09:04	Analyst: ars			
Diesel Range Organics	0.76	0.24	1.0	mg/l	10	01/23/19 20:06	J, M-04
Oil Range Organics	ND	3.3	5.0	mg/l	10	01/23/19 20:06	M-04
Surrogate(s)							
n-Tetracosane	96% Conc: 0.239	64-155				01/23/19 20:06	M-04
<b>Mercury - Low Level by CVAFS</b>							
Method: EPA 1631E	Batch ID: W9A0680	Instr: HG02	Prepared: 01/12/19 16:20	Analyst: map			
Mercury, Dissolved	15	0.31	0.50	ng/l	1	01/13/19 14:22	
Mercury, Total	53	3.1	5.0	ng/l	10	01/13/19 14:35	
<b>Metals by EPA 200 Series Methods</b>							
Method: EPA 200.7	Batch ID: [CALC]	Instr: [CALC]	Prepared: 01/15/19 10:03	Analyst: mtt			
Calcium Hardness as CaCO3	30.7		0.250	mg/l	1	01/31/19 20:41	
Method: EPA 200.7	Batch ID: W9A0808	Instr: ICP03	Prepared: 01/15/19 10:03	Analyst: mtt			
Calcium, Total	12.3	0.0160	0.100	mg/l	1	01/31/19 20:41	
Phosphorus, Dissolved	0.20	0.012	0.020	mg/l	1	01/31/19 20:00	
Phosphorus, Total	0.48	0.012	0.020	mg/l	1	01/31/19 20:41	
Method: EPA 200.8	Batch ID: W9A0807	Instr: ICPMS02	Prepared: 01/15/19 09:58	Analyst: jea			
Aluminum, Dissolved	37	1.3	5.0	ug/l	1	02/02/19 16:12	
Aluminum, Total	3000	1.3	5.0	ug/l	1	02/02/19 16:19	
Antimony, Dissolved	2.2	0.045	0.50	ug/l	1	02/02/19 16:12	
Antimony, Total	3.3	0.045	0.50	ug/l	1	02/02/19 16:19	
Arsenic, Dissolved	0.86	0.074	0.40	ug/l	1	02/02/19 16:12	
Arsenic, Total	2.0	0.074	0.40	ug/l	1	02/02/19 16:19	
Cadmium, Dissolved	ND	0.041	0.10	ug/l	1	02/05/19 13:40	
Cadmium, Total	0.25	0.041	0.10	ug/l	1	02/05/19 13:44	
Chromium, Dissolved	1.9	0.035	0.20	ug/l	1	02/05/19 13:40	
Chromium, Total	4.8	0.035	0.20	ug/l	1	02/05/19 13:44	
Copper, Dissolved	20	0.13	0.50	ug/l	1	02/02/19 16:12	
Copper, Total	45	0.13	0.50	ug/l	1	02/02/19 16:19	
Iron, Dissolved	72	0.91	20	ug/l	1	02/02/19 16:12	
Iron, Total	4100	0.91	20	ug/l	1	02/02/19 16:19	
Lead, Dissolved	0.38	0.031	0.20	ug/l	1	02/02/19 16:12	
Lead, Total	15	0.031	0.20	ug/l	1	02/02/19 16:19	



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FINAL REPORT

**Project Number:** Irwindale SW Outfall Monitoring

**Reported:**

03/12/2019 10:23

**Project Manager:** Edmond G. Suher

## Sample Results

(Continued)

Sample: SAWPW-074A

Sampled: 01/12/19 3:45 by ES/AH

9A12002-02 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Metals by EPA 200 Series Methods (Continued)

Method: EPA 200.8	Batch ID: W9A0807	Instr: ICPMS02	Prepared: 01/15/19 09:58	Analyst: jea
Nickel, Dissolved		3.3 0.045	0.80 ug/l 1	02/02/19 16:12
Nickel, Total		9.5 0.045	0.80 ug/l 1	02/02/19 16:19
Method: EPA 200.8	Batch ID: W9B0467	Instr: ICPMS05	Prepared: 02/08/19 09:35	Analyst: jea
Zinc, Total		200 0.94	5.0 ug/l 1	02/11/19 15:12
Method: EPA 200.8	Batch ID: W9B0469	Instr: ICPMS05	Prepared: 02/08/19 09:37	Analyst: jea
Zinc, Dissolved		48 0.94	5.0 ug/l 1	02/11/19 15:53

### Microbiological Parameters by Standard Methods

<b>Method:</b> SM 9221F	<b>Batch ID:</b> W9B0083	<b>Instr:</b> _ANALYST	<b>Prepared:</b> 01/12/19 09:11	<b>Analyst:</b> jns	
<b>E. coli</b>	1700	18	MPN/100ml	10	01/24/19 18:00

### Semivolatile Organics - Low Level by Tandem GC/MS/MS

Method: EPA 625.1	Batch ID: W9A0922	Instr: GCMS15	Prepared: 01/16/19 09:26	Analyst: EFC			
Acenaphthene	ND	4.3	50	ng/l	2	02/15/19 19:41	M-02, M-04
Acenaphthylene	ND	5.2	50	ng/l	2	02/15/19 19:41	M-02, M-04
Anthracene	ND	9.1	50	ng/l	2	02/15/19 19:41	M-02, M-04
Benzo (a) anthracene	ND	7.9	50	ng/l	2	02/15/19 19:41	M-02, M-04
Benzo (a) pyrene	ND	5.8	50	ng/l	2	02/15/19 19:41	M-02, M-04
Benzo (b) fluoranthene	ND	16	50	ng/l	2	02/15/19 19:41	M-02, M-04
Benzo (g,h,i) perylene	ND	9.0	50	ng/l	2	02/15/19 19:41	M-02, M-04
Benzo (k) fluoranthene	ND	5.2	50	ng/l	2	02/15/19 19:41	M-02, M-04
Chrysene	ND	5.2	50	ng/l	2	02/15/19 19:41	M-02, M-04
Dibenzo (a,h) anthracene	ND	12	50	ng/l	2	02/15/19 19:41	M-02, M-04
Fluoranthene	ND	13	50	ng/l	2	02/15/19 19:41	M-02, M-04
Fluorene	ND	7.5	50	ng/l	2	02/15/19 19:41	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND	9.9	50	ng/l	2	02/15/19 19:41	M-02, M-04
Naphthalene	ND	5.3	50	ng/l	2	02/15/19 19:41	M-02, M-04
Phenanthrene	32	9.6	50	ng/l	2	02/15/19 19:41	J, M-02, M-04
Pyrene	11	6.8	50	ng/l	2	02/15/19 19:41	J, M-02, M-04

<b>Surrogate(s)</b>							
1,3-Dimethyl-2-nitrobenzene	91%	Conc: 454	50-150			02/15/19 19:41	M-02, M-04
Perylene-d12	68%	Conc: 342	50-150			02/15/19 19:41	M-02, M-04





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**Reported:**

03/12/2019 10:23

**Project Manager:** Edmond G. Suher

## Sample Results

(Continued)

Sample: Trip Blank Sampled: 01/12/19 3:45 by ES/AH

9A12002-03 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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### Mercury - Low Level by CVAFS

**Method:** EPA 1631E **Batch ID:** W9A0680 **Instr:** HG02 **Prepared:** 01/12/19 16:20 **Analyst:** map

Mercury, Dissolved	ND	0.31	0.50	ng/l	1	01/13/19 13:35	
Mercury, Total	ND	0.31	0.50	ng/l	1	01/13/19 13:40	

## Sample Results McCampbell Analytical, Inc. ELAP #1644

Sample: SAWPW-074A Sampled: 01/12/19 3:45 by ES/AH

9A12002-02 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### SM5310B

**Method:** SM5310B **Batch ID:** 172396 **Prepared:** 02/02/19 00:00 **Analyst:** TD

TOC	21	0.3	mg/L	1	02/02/19	
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**Project Manager:** Edmond G. Suher

## Quality Control Results

SM5310B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: 172396 - SM5310B</b>										
<b>LCS (LCS-172396)</b>				<b>Prepared &amp; Analyzed: 02/02/19</b>						
TOC	44	0.3	mg/L	50		88	80-120			
<b>LCSD (LCSD-172396)</b>				<b>Prepared &amp; Analyzed: 02/02/19</b>						
TOC	45	0.3	mg/L	50		89	80-120	1.02	20	
<b>Blank (MB-172396)</b>				<b>Prepared &amp; Analyzed: 02/02/19</b>						
TOC	ND	0.3	mg/L				-			

## Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W9A0985 - EPA 300.0</b>											
<b>Blank (W9A0985-BLK1)</b>				<b>Prepared &amp; Analyzed: 01/17/19</b>							
Chloride, Total	ND	0.10	0.50	mg/l							
Sulfate as SO4	ND	0.10	0.50	mg/l							
<b>LCS (W9A0985-BS1)</b>				<b>Prepared &amp; Analyzed: 01/17/19</b>							
Chloride, Total	20.9	0.10	0.50	mg/l	20.0		104	90-110			
Sulfate as SO4	18.5	0.10	0.50	mg/l	20.0		93	90-110			
<b>Matrix Spike (W9A0985-MS1)</b>				<b>Source: 8L28007-01</b>	<b>Prepared &amp; Analyzed: 01/17/19</b>						
Chloride, Total	295	1.0	5.0	mg/l	200	95.7	100	76-118			
Sulfate as SO4	182	1.0	5.0	mg/l	200	1.96	90	78-111			
<b>Matrix Spike (W9A0985-MS2)</b>				<b>Source: 8L28007-02</b>	<b>Prepared &amp; Analyzed: 01/17/19</b>						
Chloride, Total	302	1.0	5.0	mg/l	200	102	100	76-118			
Sulfate as SO4	183	1.0	5.0	mg/l	200	3.88	90	78-111			
<b>Matrix Spike Dup (W9A0985-MSD1)</b>				<b>Source: 8L28007-01</b>	<b>Prepared &amp; Analyzed: 01/17/19</b>						
Chloride, Total	297	1.0	5.0	mg/l	200	95.7	100	76-118	0.5	20	
Sulfate as SO4	182	1.0	5.0	mg/l	200	1.96	90	78-111	0.03	20	
<b>Matrix Spike Dup (W9A0985-MSD2)</b>				<b>Source: 8L28007-02</b>	<b>Prepared &amp; Analyzed: 01/17/19</b>						
Chloride, Total	303	1.0	5.0	mg/l	200	102	101	76-118	0.3	20	
Sulfate as SO4	184	1.0	5.0	mg/l	200	3.88	90	78-111	0.3	20	



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FINAL REPORT

Reported:

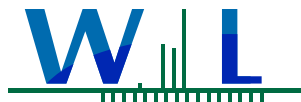
03/12/2019 10:23

## Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0669 - SM 5540C</b>											
<b>Blank (W9A0669-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/12/19</b>						
MBAS	ND	0.019	0.050	mg/l							
<b>LCS (W9A0669-BS1)</b>					<b>Prepared &amp; Analyzed: 01/12/19</b>						
MBAS	0.187	0.019	0.050	mg/l	0.200		94	82-115			
<b>Matrix Spike (W9A0669-MS1)</b>					<b>Prepared &amp; Analyzed: 01/12/19</b>						
MBAS	0.529	0.019	0.050	mg/l	0.200	0.300	114	74-123			
<b>Matrix Spike Dup (W9A0669-MSD1)</b>					<b>Prepared &amp; Analyzed: 01/12/19</b>						
MBAS	0.451	0.019	0.050	mg/l	0.200	0.300	76	74-123	16	20	
<b>Batch: W9A0681 - EPA 180.1</b>											
<b>Blank (W9A0681-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
Turbidity	ND	0.024	0.10	NTU							
<b>LCS (W9A0681-BS1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
Turbidity	9.66	0.024	0.10	NTU	10.0		97	90-110			
<b>Duplicate (W9A0681-DUP1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
Turbidity	16.2	0.024	0.10	NTU		16.3			0.6	10	
<b>Batch: W9A0682 - EPA 353.2</b>											
<b>Blank (W9A0682-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
NO2+NO3 as N	ND	83	200	ug/l							
<b>LCS (W9A0682-BS1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
NO2+NO3 as N	920	83	200	ug/l	1000		92	90-110			
<b>Duplicate (W9A0682-DUP1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
NO2+NO3 as N	749	83	200	ug/l		742			0.9	20	
<b>Matrix Spike (W9A0682-MS1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
NO2+NO3 as N	1890	83	200	ug/l	2000	ND	94	90-110			
<b>Matrix Spike Dup (W9A0682-MSD1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
NO2+NO3 as N	1880	83	200	ug/l	2000	ND	94	90-110	0.5	20	
<b>Batch: W9A0685 - SM 5210B</b>											
<b>Blank (W9A0685-BLK1)</b>					<b>Prepared: 01/13/19 Analyzed: 01/18/19</b>						
Biochemical Oxygen Demand	ND	2.0	2.0	mg/l							
<b>Blank (W9A0685-BLK2)</b>					<b>Prepared: 01/13/19 Analyzed: 01/18/19</b>						
Biochemical Oxygen Demand	ND	2.0	2.0	mg/l							
<b>LCS (W9A0685-BS1)</b>					<b>Prepared: 01/13/19 Analyzed: 01/18/19</b>						
Biochemical Oxygen Demand	226	2.0	2.0	mg/l	198		114	85-115			
<b>Duplicate (W9A0685-DUP1)</b>					<b>Prepared: 01/13/19 Analyzed: 01/18/19</b>						
Biochemical Oxygen Demand	10.1	2.0	2.0	mg/l		9.36			7	20	
<b>Batch: W9A0688 - SM 2540D</b>											
<b>Blank (W9A0688-BLK1)</b>					<b>Prepared: 01/13/19 Analyzed: 01/14/19</b>						
Total Suspended Solids	ND		5	mg/l							



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Reported:

03/12/2019 10:23

Project Manager: Edmond G. Suher

## Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W9A0688 - SM 2540D (Continued)</b>											
<b>LCS (W9A0688-BS1)</b>											
Total Suspended Solids	54.0		5	mg/l	49.9		108	90-110			
<b>Duplicate (W9A0688-DUP1)</b>											
				Source: 9A13003-01		Prepared: 01/13/19 Analyzed: 01/14/19					
Total Suspended Solids	1280		5	mg/l		1500			15	20	
<b>Duplicate (W9A0688-DUP2)</b>											
				Source: 9A12028-01		Prepared: 01/13/19 Analyzed: 01/14/19					
Total Suspended Solids	22.0		5	mg/l		23.0			4	20	
<b>Batch: W9A0689 - EPA 160.4</b>											
<b>Blank (W9A0689-BLK1)</b>											
Volatile Suspended Solids	ND	3.1	5.0	mg/l							
<b>LCS (W9A0689-BS1)</b>											
Volatile Suspended Solids	39	3.1	5.0	mg/l	41.5		94	90-110			
<b>Duplicate (W9A0689-DUP1)</b>											
				Source: 9A12002-01		Prepared: 01/13/19 Analyzed: 01/14/19					
Volatile Suspended Solids	23	3.1	5.0	mg/l		25			8	15	
<b>Batch: W9A0828 - EPA 335.4</b>											
<b>Blank (W9A0828-BLK1)</b>											
Cyanide, Total	ND	2.7	5.0	ug/l							
<b>LCS (W9A0828-BS1)</b>											
Cyanide, Total	104	2.7	5.0	ug/l	100		104	90-110			
<b>Matrix Spike (W9A0828-MS1)</b>											
				Source: 9A14062-01		Prepared: 01/15/19 Analyzed: 01/16/19					
Cyanide, Total	142	2.7	5.0	ug/l	200	ND	71	90-110			MS-01
<b>Matrix Spike (W9A0828-MS2)</b>											
				Source: 9A14062-01		Prepared: 01/15/19 Analyzed: 01/16/19					
Cyanide, Total	730	14	25	ug/l	1000	ND	73	90-110			MS-03
<b>Matrix Spike Dup (W9A0828-MSD1)</b>											
				Source: 9A14062-01		Prepared: 01/15/19 Analyzed: 01/16/19					
Cyanide, Total	138	2.7	5.0	ug/l	200	ND	69	90-110	3	20	MS-01
<b>Matrix Spike Dup (W9A0828-MSD2)</b>											
				Source: 9A14062-01		Prepared: 01/15/19 Analyzed: 01/16/19					
Cyanide, Total	835	14	25	ug/l	1000	ND	84	90-110	13	20	MS-03
<b>Batch: W9A0899 - SM 2540C</b>											
<b>Blank (W9A0899-BLK1)</b>											
Total Dissolved Solids	ND	4.0	10	mg/l							
<b>LCS (W9A0899-BS1)</b>											
Total Dissolved Solids	806	4.0	10	mg/l	824		98	96-102			
<b>Duplicate (W9A0899-DUP1)</b>											
				Source: 9A09096-04		Prepared: 01/15/19 Analyzed: 01/16/19					
Total Dissolved Solids	1370	4.0	10	mg/l		1390			1	10	
<b>Duplicate (W9A0899-DUP2)</b>											
				Source: 9A13004-01		Prepared: 01/15/19 Analyzed: 01/16/19					
Total Dissolved Solids	1370	4.0	10	mg/l		1360			0.7	10	
<b>Batch: W9A0998 - EPA 350.1</b>											
<b>Blank (W9A0998-BLK1)</b>											
Ammonia as N	ND	0.048	0.10	mg/l							

9A12002

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Project Manager: Edmond G. Suher

Reported:  
03/12/2019 10:23

## Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W9A0998 - EPA 350.1 (Continued)</b>											
<b>Blank (W9A0998-BLK2)</b>						<b>Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	ND	0.048	0.10	mg/l							
<b>LCS (W9A0998-BS1)</b>						<b>Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	0.249	0.048	0.10	mg/l	0.250		100	90-110			
<b>LCS (W9A0998-BS2)</b>						<b>Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	0.251	0.048	0.10	mg/l	0.250		100	90-110			
<b>Duplicate (W9A0998-DUP1)</b>						<b>Source: 9A13006-02 Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	0.115	0.048	0.10	mg/l		0.114			0.9	15	
<b>Matrix Spike (W9A0998-MS1)</b>						<b>Source: 9A13007-03 Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	0.245	0.048	0.10	mg/l	0.250	ND	98	90-110			
<b>Matrix Spike (W9A0998-MS2)</b>						<b>Source: 9A13011-06 Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	0.258	0.048	0.10	mg/l	0.250	ND	103	90-110			
<b>Matrix Spike Dup (W9A0998-MSD1)</b>						<b>Source: 9A13007-03 Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	0.248	0.048	0.10	mg/l	0.250	ND	99	90-110	1	15	
<b>Matrix Spike Dup (W9A0998-MSD2)</b>						<b>Source: 9A13011-06 Prepared: 01/17/19 Analyzed: 01/18/19</b>					
Ammonia as N	0.259	0.048	0.10	mg/l	0.250	ND	104	90-110	0.3	15	
<b>Batch: W9A1022 - SM 2510B</b>											
<b>Blank (W9A1022-BLK1)</b>						<b>Prepared &amp; Analyzed: 01/17/19</b>					
Specific Conductance (EC)	ND	0.23	2.0	umhos/cm							
<b>LCS (W9A1022-BS1)</b>						<b>Prepared &amp; Analyzed: 01/17/19</b>					
Specific Conductance (EC)	298	0.23	2.0	umhos/cm	309		96	95-105			
<b>Duplicate (W9A1022-DUP1)</b>						<b>Source: 9A12002-01 Prepared &amp; Analyzed: 01/17/19</b>					
Specific Conductance (EC)	42.4	0.23	2.0	umhos/cm		41.0			3	5	
<b>Batch: W9A1069 - EPA 351.2</b>											
<b>Blank (W9A1069-BLK1)</b>						<b>Prepared: 01/18/19 Analyzed: 01/22/19</b>					
TKN	ND	0.050	0.10	mg/l							
<b>LCS (W9A1069-BS1)</b>						<b>Prepared: 01/18/19 Analyzed: 01/22/19</b>					
TKN	0.939	0.050	0.10	mg/l	1.00		94	90-110			
<b>Matrix Spike (W9A1069-MS1)</b>						<b>Source: 9A11084-03 Prepared: 01/18/19 Analyzed: 01/22/19</b>					
TKN	1.09	0.050	0.10	mg/l	1.00	0.259	84	90-110			MS-01
<b>Matrix Spike Dup (W9A1069-MSD1)</b>						<b>Source: 9A11084-03 Prepared: 01/18/19 Analyzed: 01/22/19</b>					
TKN	1.11	0.050	0.10	mg/l	1.00	0.259	85	90-110	1	10	MS-01
<b>Batch: W9A1169 - SM 2320B</b>											
<b>Blank (W9A1169-BLK1)</b>						<b>Prepared: 01/21/19 Analyzed: 01/22/19</b>					
Alkalinity as CaCO3	0.770	0.56	2.0	mg/l							J
<b>LCS (W9A1169-BS1)</b>						<b>Prepared: 01/21/19 Analyzed: 01/22/19</b>					
Alkalinity as CaCO3	263	0.56	2.0	mg/l	250		105	94-108			
<b>Duplicate (W9A1169-DUP1)</b>						<b>Source: 8L03016-02 Prepared: 01/21/19 Analyzed: 01/22/19</b>					

9A12002

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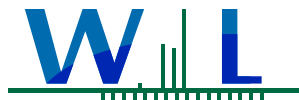
**Project Manager:** Edmond G. Suher

## Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1169 - SM 2320B (Continued)</b>											
<b>Duplicate (W9A1169-DUP1)</b>	<b>Source: 8L03016-02</b>		<b>Prepared: 01/21/19 Analyzed: 01/22/19</b>								
Alkalinity as CaCO3	55.4	0.56	2.0	mg/l		59.5			7	15	
<b>Batch: W9A1308 - EPA 420.4</b>											
<b>Blank (W9A1308-BLK1)</b>	<b>Source: 9A09042-02</b>		<b>Prepared: 01/23/19 Analyzed: 02/02/19</b>								
Phenolics	ND	0.0042	0.010	mg/l							
<b>LCS (W9A1308-BS1)</b>	<b>Source: 9A09042-02</b>		<b>Prepared: 01/23/19 Analyzed: 02/02/19</b>								
Phenolics	0.0940	0.0042	0.010	mg/l	0.100		94	90-110			
<b>Matrix Spike (W9A1308-MS1)</b>	<b>Source: 9A09042-02</b>		<b>Prepared: 01/23/19 Analyzed: 02/02/19</b>								
Phenolics	0.253	0.0042	0.010	mg/l	0.250	ND	101	90-110			
<b>Matrix Spike Dup (W9A1308-MSD1)</b>	<b>Source: 9A09042-02</b>		<b>Prepared: 01/23/19 Analyzed: 02/02/19</b>								
Phenolics	0.250	0.0042	0.010	mg/l	0.250	ND	100	90-110	1	20	
<b>Batch: W9A1714 - EPA 410.4</b>											
<b>Blank (W9A1714-BLK1)</b>	<b>Source: 9A10048-01</b>		<b>Prepared: 01/30/19 Analyzed: 02/05/19</b>								
Chemical Oxygen Demand	ND	0.73	5.0	mg/l							
<b>LCS (W9A1714-BS1)</b>	<b>Source: 9A10048-01</b>		<b>Prepared: 01/30/19 Analyzed: 02/05/19</b>								
Chemical Oxygen Demand	1070	0.73	5.0	mg/l	1000		107	90-110			
<b>Duplicate (W9A1714-DUP1)</b>	<b>Source: 9A11045-01</b>		<b>Prepared: 01/30/19 Analyzed: 02/05/19</b>								
Chemical Oxygen Demand	3510	7.3	50	mg/l		3450			2	15	
<b>Matrix Spike (W9A1714-MS1)</b>	<b>Source: 9A11045-01</b>		<b>Prepared: 01/30/19 Analyzed: 02/05/19</b>								
Chemical Oxygen Demand	2600	2.9	20	mg/l	2000	647	98	90-110			
<b>Matrix Spike (W9A1714-MS2)</b>	<b>Source: 9A12002-01</b>		<b>Prepared: 01/30/19 Analyzed: 02/05/19</b>								
Chemical Oxygen Demand	260	2.9	20	mg/l	200	51.4	104	90-110			
<b>Matrix Spike Dup (W9A1714-MSD1)</b>	<b>Source: 9A11045-01</b>		<b>Prepared: 01/30/19 Analyzed: 02/05/19</b>								
Chemical Oxygen Demand	2650	2.9	20	mg/l	2000	647	100	90-110	2	15	
<b>Matrix Spike Dup (W9A1714-MSD2)</b>	<b>Source: 9A12002-01</b>		<b>Prepared: 01/30/19 Analyzed: 02/05/19</b>								
Chemical Oxygen Demand	251	2.9	20	mg/l	200	51.4	100	90-110	4	15	



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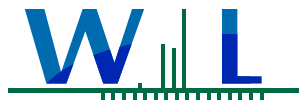
**Project Manager:** Edmond G. Suher

## Quality Control Results

(Continued)

Hexavalent Chromium by IC

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0935 - EPA 218.6</b>											
<b>Blank (W9A0935-BLK1)</b>						<b>Prepared &amp; Analyzed: 01/16/19</b>					
Chromium 6+, Dissolved	ND	0.0048	0.020	ug/l							
<b>LCS (W9A0935-BS1)</b>						<b>Prepared &amp; Analyzed: 01/16/19</b>					
Chromium 6+, Dissolved	5.03	0.0048	0.020	ug/l	5.00		101	90-110			
<b>Matrix Spike (W9A0935-MS1)</b>						<b>Prepared &amp; Analyzed: 01/16/19</b>					
Chromium 6+, Dissolved	5.43	0.0048	0.020	ug/l	5.00	0.377	101	88-112			
<b>Matrix Spike (W9A0935-MS2)</b>						<b>Prepared &amp; Analyzed: 01/16/19</b>					
Chromium 6+, Dissolved	5.37	0.0048	0.020	ug/l	5.00	0.199	103	88-112			
<b>Matrix Spike Dup (W9A0935-MSD1)</b>						<b>Prepared &amp; Analyzed: 01/16/19</b>					
Chromium 6+, Dissolved	5.44	0.0048	0.020	ug/l	5.00	0.377	101	88-112	0.06	10	
<b>Matrix Spike Dup (W9A0935-MSD2)</b>						<b>Prepared &amp; Analyzed: 01/16/19</b>					
Chromium 6+, Dissolved	5.36	0.0048	0.020	ug/l	5.00	0.199	103	88-112	0.2	10	
<b>Batch: W9A1321 - EPA 218.6</b>											
<b>Blank (W9A1321-BLK1)</b>						<b>Prepared &amp; Analyzed: 01/23/19</b>					
Chromium 6+	ND	0.0048	0.020	ug/l							
<b>LCS (W9A1321-BS1)</b>						<b>Prepared &amp; Analyzed: 01/23/19</b>					
Chromium 6+	5.11	0.0048	0.020	ug/l	5.00		102	90-110			
<b>Matrix Spike (W9A1321-MS1)</b>						<b>Prepared &amp; Analyzed: 01/23/19</b>					
Chromium 6+	9.00	0.0048	0.020	ug/l	5.00	3.75	105	88-112			
<b>Matrix Spike (W9A1321-MS2)</b>						<b>Prepared &amp; Analyzed: 01/23/19</b>					
Chromium 6+	5.07	0.0048	0.020	ug/l	5.00	ND	101	88-112			
<b>Matrix Spike Dup (W9A1321-MSD1)</b>						<b>Prepared &amp; Analyzed: 01/23/19</b>					
Chromium 6+	9.06	0.0048	0.020	ug/l	5.00	3.75	106	88-112	0.7	10	
<b>Matrix Spike Dup (W9A1321-MSD2)</b>						<b>Prepared &amp; Analyzed: 01/23/19</b>					
Chromium 6+	5.27	0.0048	0.020	ug/l	5.00	ND	105	88-112	4	10	



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## Quality Control Results

(Continued)

### Hydrocarbons by GC/FID

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0706 - EPA 8015B</b>											
<b>Blank (W9A0706-BLK1)</b>					<b>Prepared: 01/14/19 Analyzed: 01/23/19</b>						
Diesel Range Organics	0.0887	0.024	0.10	mg/l							J
Oil Range Organics	ND	0.33	0.50	mg/l							
<i>Surrogate(s)</i>											
<i>n-Tetracosane</i>	0.253			mg/l	0.250		101	64-155			
<b>LCS (W9A0706-BS1)</b>					<b>Prepared: 01/14/19 Analyzed: 01/23/19</b>						
Diesel Range Organics	0.495	0.024	0.10	mg/l	0.500		99	56-136			
<i>Surrogate(s)</i>											
<i>n-Tetracosane</i>	0.256			mg/l	0.250		103	64-155			
<b>LCS Dup (W9A0706-BSD1)</b>					<b>Prepared: 01/14/19 Analyzed: 01/23/19</b>						
Diesel Range Organics	0.309	0.024	0.10	mg/l	0.500		62	56-136	46	25	Q-12
<i>Surrogate(s)</i>											
<i>n-Tetracosane</i>	0.247			mg/l	0.250		99	64-155			

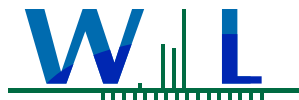
## Quality Control Results

(Continued)

### Mercury - Low Level by CVAFS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0680 - EPA 1631E</b>											
<b>Blank (W9A0680-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
Mercury, Dissolved	ND	0.31	0.50	ng/l							
Mercury, Total	ND	0.31	0.50	ng/l							
<b>LCS (W9A0680-BS1)</b>					<b>Prepared &amp; Analyzed: 01/13/19</b>						
Mercury, Dissolved	4.97	0.31	0.50	ng/l	5.00		99	85-115			
Mercury, Total	4.97	0.31	0.50	ng/l	5.00		99	85-115			
<b>Matrix Spike (W9A0680-MS1)</b>					<b>Source: 9A09125-01 Prepared &amp; Analyzed: 01/13/19</b>						
Mercury, Dissolved	6.37	0.31	0.50	ng/l	5.00	1.26	102	75-125			
Mercury, Total	6.37	0.31	0.50	ng/l	5.00	1.26	102	75-125			
<b>Matrix Spike (W9A0680-MS2)</b>					<b>Source: 9A12002-01 Prepared &amp; Analyzed: 01/13/19</b>						
Mercury, Dissolved	65.4	3.1	5.0	ng/l	50.0	7.85	115	75-125			
Mercury, Total	65.4	3.1	5.0	ng/l	50.0	16.4	98	75-125			
<b>Matrix Spike Dup (W9A0680-MSD1)</b>					<b>Source: 9A09125-01 Prepared &amp; Analyzed: 01/13/19</b>						
Mercury, Dissolved	6.02	0.31	0.50	ng/l	5.00	1.26	95	75-125	6	20	
Mercury, Total	6.02	0.31	0.50	ng/l	5.00	1.26	95	75-125	6	20	
<b>Matrix Spike Dup (W9A0680-MSD2)</b>					<b>Source: 9A12002-01 Prepared &amp; Analyzed: 01/13/19</b>						
Mercury, Dissolved	65.2	3.1	5.0	ng/l	50.0	7.85	115	75-125	0.3	20	
Mercury, Total	65.2	3.1	5.0	ng/l	50.0	16.4	98	75-125	0.3	20	





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**Project Manager:** Edmond G. Suher

## Quality Control Results

(Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0807 - EPA 200.8</b>											
<b>Blank (W9A0807-BLK1)</b>						<b>Prepared: 01/15/19 Analyzed: 02/02/19</b>					
Aluminum, Dissolved	1.43	1.3	5.0	ug/l							J
Aluminum, Total	1.56	1.3	5.0	ug/l							J
Antimony, Dissolved	ND	0.045	0.50	ug/l							
Antimony, Total	ND	0.045	0.50	ug/l							
Arsenic, Dissolved	ND	0.074	0.40	ug/l							
Arsenic, Total	ND	0.074	0.40	ug/l							
Cadmium, Dissolved	ND	0.041	0.10	ug/l							
Cadmium, Total	ND	0.041	0.10	ug/l							
Chromium, Dissolved	ND	0.035	0.20	ug/l							
Chromium, Total	ND	0.035	0.20	ug/l							
Copper, Dissolved	ND	0.13	0.50	ug/l							
Copper, Total	ND	0.13	0.50	ug/l							
Iron, Dissolved	1.06	0.91	20	ug/l							J
Iron, Total	1.01	0.91	20	ug/l							J
Lead, Dissolved	ND	0.031	0.20	ug/l							
Lead, Total	ND	0.031	0.20	ug/l							
Nickel, Dissolved	ND	0.045	0.80	ug/l							
Nickel, Total	ND	0.045	0.80	ug/l							
<b>Blank (W9A0807-BLK2)</b>						<b>Prepared: 01/15/19 Analyzed: 02/04/19</b>					
Aluminum, Dissolved	ND	1.3	5.0	ug/l							
Aluminum, Total	ND	1.3	5.0	ug/l							
Antimony, Dissolved	ND	0.045	0.50	ug/l							
Antimony, Total	ND	0.045	0.50	ug/l							
Arsenic, Dissolved	ND	0.074	0.40	ug/l							
Arsenic, Total	ND	0.074	0.40	ug/l							
Copper, Dissolved	ND	0.13	0.50	ug/l							
Copper, Total	ND	0.13	0.50	ug/l							
Iron, Dissolved	ND	0.91	20	ug/l							
Iron, Total	ND	0.91	20	ug/l							
Lead, Dissolved	ND	0.031	0.20	ug/l							
Lead, Total	ND	0.031	0.20	ug/l							
Nickel, Dissolved	ND	0.045	0.80	ug/l							
Nickel, Total	ND	0.045	0.80	ug/l							
<b>LCS (W9A0807-BS1)</b>						<b>Prepared: 01/15/19 Analyzed: 02/02/19</b>					
Aluminum, Dissolved	50.7	1.3	5.0	ug/l	49.9		102	85-115			
Aluminum, Total	50.7	1.3	5.0	ug/l	49.9		102	85-115			
Antimony, Dissolved	53.4	0.045	0.50	ug/l	49.9		107	85-115			
Antimony, Total	53.4	0.045	0.50	ug/l	49.9		107	85-115			
Arsenic, Dissolved	51.8	0.074	0.40	ug/l	49.9		104	85-115			



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## Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0807 - EPA 200.8 (Continued)</b>											
<b>LCS (W9A0807-BS1)</b>											
						<b>Prepared: 01/15/19 Analyzed: 02/02/19</b>					
Arsenic, Total	51.8	0.074	0.40	ug/l	49.9		104	85-115			
Cadmium, Dissolved	49.3	0.041	0.10	ug/l	49.9		99	85-115			
Cadmium, Total	49.3	0.041	0.10	ug/l	49.9		99	85-115			
Chromium, Dissolved	48.0	0.035	0.20	ug/l	49.9		96	85-115			
Chromium, Total	48.0	0.035	0.20	ug/l	49.9		96	85-115			
Copper, Dissolved	53.1	0.13	0.50	ug/l	49.9		106	85-115			
Copper, Total	53.1	0.13	0.50	ug/l	49.9		106	85-115			
Iron, Dissolved	1100	0.91	20	ug/l	1050		104	85-115			
Iron, Total	1100	0.91	20	ug/l	1050		104	85-115			
Lead, Dissolved	53.3	0.031	0.20	ug/l	49.9		107	85-115			
Lead, Total	53.3	0.031	0.20	ug/l	49.9		107	85-115			
Nickel, Dissolved	53.5	0.045	0.80	ug/l	49.9		107	85-115			
Nickel, Total	53.5	0.045	0.80	ug/l	49.9		107	85-115			
<b>LCS (W9A0807-BS2)</b>											
						<b>Prepared: 01/15/19 Analyzed: 02/04/19</b>					
Aluminum, Dissolved	50.6	1.3	5.0	ug/l	49.9		101	85-115			
Aluminum, Total	50.6	1.3	5.0	ug/l	49.9		101	85-115			
Antimony, Dissolved	53.3	0.045	0.50	ug/l	49.9		107	85-115			
Antimony, Total	53.3	0.045	0.50	ug/l	49.9		107	85-115			
Arsenic, Dissolved	51.0	0.074	0.40	ug/l	49.9		102	85-115			
Arsenic, Total	51.0	0.074	0.40	ug/l	49.9		102	85-115			
Copper, Dissolved	51.9	0.13	0.50	ug/l	49.9		104	85-115			
Copper, Total	51.9	0.13	0.50	ug/l	49.9		104	85-115			
Iron, Dissolved	1080	0.91	20	ug/l	1050		103	85-115			
Iron, Total	1080	0.91	20	ug/l	1050		103	85-115			
Lead, Dissolved	53.2	0.031	0.20	ug/l	49.9		107	85-115			
Lead, Total	53.2	0.031	0.20	ug/l	49.9		107	85-115			
Nickel, Dissolved	51.9	0.045	0.80	ug/l	49.9		104	85-115			
Nickel, Total	51.9	0.045	0.80	ug/l	49.9		104	85-115			
<b>Duplicate (W9A0807-DUP1)</b>											
				<b>Source: 9A12024-03</b>		<b>Prepared: 01/15/19 Analyzed: 02/04/19</b>					
Aluminum, Total	2320	1.3	5.0	ug/l		2200			6	30	
Antimony, Total	2.27	0.045	0.50	ug/l		2.25			0.9	30	
Arsenic, Total	1.99	0.074	0.40	ug/l		1.91			4	30	
Cadmium, Total	0.290	0.041	0.10	ug/l		0.290			0	30	
Chromium, Total	4.05	0.035	0.20	ug/l		3.77			7	30	
Copper, Total	24.0	0.13	0.50	ug/l		24.6			3	30	
Iron, Total	2920	0.91	20	ug/l		2680			9	30	
Lead, Total	13.0	0.031	0.20	ug/l		13.0			0.08	30	
Nickel, Total	4.74	0.045	0.80	ug/l		4.79			1	30	



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**Project Manager:** Edmond G. Suher

## Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0807 - EPA 200.8 (Continued)</b>											
<b>Matrix Spike (W9A0807-MS1)</b>			<b>Source: 9A12024-01</b>			<b>Prepared: 01/15/19 Analyzed: 02/02/19</b>					
Aluminum, Total	1630	1.3	5.0	ug/l	49.9	1300	659	70-130			MS-02
Antimony, Total	49.4	0.045	0.50	ug/l	49.9	1.97	95	70-130			
Arsenic, Dissolved	53.4	0.074	0.40	ug/l	49.9	0.850	105	70-130			
Arsenic, Total	53.4	0.074	0.40	ug/l	49.9	1.41	104	70-130			
Cadmium, Total	48.2	0.041	0.10	ug/l	49.9	0.130	96	70-130			
Chromium, Total	49.5	0.035	0.20	ug/l	49.9	2.55	94	70-130			
Copper, Total	76.4	0.13	0.50	ug/l	49.9	21.9	109	70-130			
Iron, Total	3230	0.91	20	ug/l	1050	1810	135	70-130			MS-02
Lead, Total	59.9	0.031	0.20	ug/l	49.9	7.73	104	70-130			
Nickel, Total	56.1	0.045	0.80	ug/l	49.9	3.34	106	70-130			
<b>Matrix Spike (W9A0807-MS2)</b>			<b>Source: 9A12024-02</b>			<b>Prepared: 01/15/19 Analyzed: 02/02/19</b>					
Aluminum, Total	51.3	1.3	5.0	ug/l	49.9	2.19	98	70-130			
Antimony, Total	50.4	0.045	0.50	ug/l	49.9	0.0700	101	70-130			
Arsenic, Total	51.6	0.074	0.40	ug/l	49.9	ND	103	70-130			
Cadmium, Total	48.3	0.041	0.10	ug/l	49.9	ND	97	70-130			
Chromium, Total	47.8	0.035	0.20	ug/l	49.9	ND	96	70-130			
Copper, Total	52.5	0.13	0.50	ug/l	49.9	ND	105	70-130			
Iron, Total	1040	0.91	20	ug/l	1050	1.37	99	70-130			
Lead, Total	51.3	0.031	0.20	ug/l	49.9	ND	103	70-130			
Nickel, Total	54.5	0.045	0.80	ug/l	49.9	0.0500	109	70-130			
<b>Matrix Spike (W9A0807-MS3)</b>			<b>Source: 9A12024-02</b>			<b>Prepared: 01/15/19 Analyzed: 02/04/19</b>					
Aluminum, Total	54.6	1.3	5.0	ug/l	49.9	2.19	105	70-130			
Antimony, Total	52.8	0.045	0.50	ug/l	49.9	0.0700	106	70-130			
Arsenic, Total	51.5	0.074	0.40	ug/l	49.9	ND	103	70-130			
Copper, Total	52.8	0.13	0.50	ug/l	49.9	ND	106	70-130			
Iron, Total	1040	0.91	20	ug/l	1050	1.37	99	70-130			
Lead, Total	52.1	0.031	0.20	ug/l	49.9	ND	104	70-130			
Nickel, Total	54.4	0.045	0.80	ug/l	49.9	0.0500	109	70-130			
<b>Matrix Spike Dup (W9A0807-MSD1)</b>			<b>Source: 9A12024-01</b>			<b>Prepared: 01/15/19 Analyzed: 02/02/19</b>					
Aluminum, Total	1510	1.3	5.0	ug/l	49.9	1300	411	70-130	8	30	MS-02
Antimony, Total	50.6	0.045	0.50	ug/l	49.9	1.97	97	70-130	3	30	
Arsenic, Total	53.1	0.074	0.40	ug/l	49.9	1.41	104	70-130	0.5	30	
Cadmium, Total	48.3	0.041	0.10	ug/l	49.9	0.130	97	70-130	0.2	30	
Chromium, Total	52.4	0.035	0.20	ug/l	49.9	2.55	100	70-130	6	30	
Copper, Total	76.8	0.13	0.50	ug/l	49.9	21.9	110	70-130	0.6	30	
Iron, Total	3180	0.91	20	ug/l	1050	1810	130	70-130	1	30	
Lead, Total	59.0	0.031	0.20	ug/l	49.9	7.73	103	70-130	2	30	
Nickel, Total	56.2	0.045	0.80	ug/l	49.9	3.34	106	70-130	0.2	30	
<b>Matrix Spike Dup (W9A0807-MSD2)</b>			<b>Source: 9A12024-02</b>			<b>Prepared: 01/15/19 Analyzed: 02/02/19</b>					

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**Project Number:** Irwindale SW Outfall Monitoring

**Reported:**

03/12/2019 10:23

**Project Manager:** Edmond G. Suher

## Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W9A0807 - EPA 200.8 (Continued)</b>											
Aluminum, Total	52.5	1.3	5.0	ug/l	49.9	2.19	101	70-130	2	30	
Antimony, Total	51.2	0.045	0.50	ug/l	49.9	0.0700	102	70-130	2	30	
Arsenic, Total	51.6	0.074	0.40	ug/l	49.9	ND	103	70-130	0.1	30	
Cadmium, Total	47.3	0.041	0.10	ug/l	49.9	ND	95	70-130	2	30	
Chromium, Total	48.8	0.035	0.20	ug/l	49.9	ND	98	70-130	2	30	
Copper, Total	53.0	0.13	0.50	ug/l	49.9	ND	106	70-130	1	30	
Iron, Total	1080	0.91	20	ug/l	1050	1.37	103	70-130	3	30	
Lead, Total	52.1	0.031	0.20	ug/l	49.9	ND	104	70-130	2	30	
Nickel, Total	53.5	0.045	0.80	ug/l	49.9	0.0500	107	70-130	2	30	
<b>Matrix Spike Dup (W9A0807-MSD3) Source: 9A12024-02 Prepared: 01/15/19 Analyzed: 02/04/19</b>											
Aluminum, Total	54.6	1.3	5.0	ug/l	49.9	2.19	105	70-130	0.07	30	
Antimony, Total	52.9	0.045	0.50	ug/l	49.9	0.0700	106	70-130	0.2	30	
Arsenic, Total	51.5	0.074	0.40	ug/l	49.9	ND	103	70-130	0	30	
Copper, Total	52.8	0.13	0.50	ug/l	49.9	ND	106	70-130	0.02	30	
Iron, Total	1080	0.91	20	ug/l	1050	1.37	103	70-130	3	30	
Lead, Total	53.0	0.031	0.20	ug/l	49.9	ND	106	70-130	2	30	
Nickel, Total	52.9	0.045	0.80	ug/l	49.9	0.0500	106	70-130	3	30	
<b>Batch: W9A0808 - EPA 200.7</b>											
<b>Blank (W9A0808-BLK1) Prepared: 01/15/19 Analyzed: 01/31/19</b>											
Calcium, Total	ND	0.0160	0.100	mg/l							
Phosphorus, Dissolved	ND	0.012	0.020	mg/l							
Phosphorus, Total	ND	0.012	0.020	mg/l							
<b>Blank (W9A0808-BLK2) Prepared: 01/15/19 Analyzed: 01/31/19</b>											
Phosphorus, Dissolved	ND	0.012	0.020	mg/l							
<b>LCS (W9A0808-BS1) Prepared: 01/15/19 Analyzed: 01/31/19</b>											
Calcium, Total	53.3	0.0160	0.100	mg/l	50.0		107	85-115			
Phosphorus, Dissolved	1.11	0.012	0.020	mg/l	1.00		111	85-115			
Phosphorus, Total	1.11	0.012	0.020	mg/l	1.00		111	85-115			
<b>Duplicate (W9A0808-DUP1) Source: 9A12024-03 Prepared: 01/15/19 Analyzed: 01/31/19</b>											
Calcium, Total	8.96	0.0160	0.100	mg/l		9.08			1	30	
Phosphorus, Total	0.359	0.012	0.020	mg/l		0.343			5	30	
<b>Matrix Spike (W9A0808-MS1) Source: 9A12024-04 Prepared: 01/15/19 Analyzed: 01/31/19</b>											
Calcium, Total	87.3	0.0160	0.100	mg/l	50.0	37.3	100	70-130			
Phosphorus, Total	1.57	0.012	0.020	mg/l	1.00	0.455	111	70-130			
<b>Matrix Spike (W9A0808-MS2) Source: 9A12024-05 Prepared: 01/15/19 Analyzed: 01/31/19</b>											
Calcium, Total	85.1	0.0160	0.100	mg/l	50.0	35.9	98	70-130			
Phosphorus, Total	1.55	0.012	0.020	mg/l	1.00	0.423	113	70-130			
<b>Matrix Spike Dup (W9A0808-MSD1) Source: 9A12024-04 Prepared: 01/15/19 Analyzed: 01/31/19</b>											
Calcium, Total	85.8	0.0160	0.100	mg/l	50.0	37.3	97	70-130	2	30	



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Reported:

03/12/2019 10:23

Project Manager: Edmond G. Suher

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W9A0808 - EPA 200.7 (Continued)</b>											
<b>Matrix Spike Dup (W9A0808-MSD1)</b>			<b>Source: 9A12024-04</b>			<b>Prepared: 01/15/19 Analyzed: 01/31/19</b>					
Phosphorus, Total	1.54	0.012	0.020	mg/l	1.00	0.455	108	70-130	2	30	
<b>Matrix Spike Dup (W9A0808-MSD2)</b>			<b>Source: 9A12024-05</b>			<b>Prepared: 01/15/19 Analyzed: 01/31/19</b>					
Calcium, Total	85.8	0.0160	0.100	mg/l	50.0	35.9	100	70-130	0.8	30	
Phosphorus, Total	1.57	0.012	0.020	mg/l	1.00	0.423	114	70-130	0.9	30	
<b>Batch: W9B0467 - EPA 200.8</b>											
<b>Blank (W9B0467-BLK1)</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>								
Zinc, Total	ND	0.94	5.0	ug/l							
<b>LCS (W9B0467-BS1)</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>								
Zinc, Total	47.5	0.94	5.0	ug/l	50.0		95	85-115			
<b>LCS Dup (W9B0467-BSD1)</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>								
Zinc, Total	45.6	0.94	5.0	ug/l	50.0		91	85-115	4	30	
<b>Matrix Spike (W9B0467-MS1)</b>			<b>Source: 9A12024-03</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>					
Zinc, Total	207	0.94	5.0	ug/l	50.0	160	93	70-130			
<b>Matrix Spike Dup (W9B0467-MSD1)</b>			<b>Source: 9A12024-03</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>					
Zinc, Total	214	0.94	5.0	ug/l	50.0	160	107	70-130	3	30	

### Batch: W9B0469 - EPA 200.8

<b>Blank (W9B0469-BLK1)</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>								
Zinc, Dissolved	ND	0.94	5.0	ug/l							
<b>LCS (W9B0469-BS1)</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>								
Zinc, Dissolved	47.8	0.94	5.0	ug/l	50.0		96	85-115			
<b>LCS Dup (W9B0469-BSD1)</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>								
Zinc, Dissolved	45.8	0.94	5.0	ug/l	50.0		92	85-115	4	30	
<b>Matrix Spike (W9B0469-MS1)</b>			<b>Source: 9A12024-01</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>					
Zinc, Dissolved	99.8	0.94	5.0	ug/l	50.0	48.5	103	70-130			
<b>Matrix Spike Dup (W9B0469-MSD1)</b>			<b>Source: 9A12024-01</b>			<b>Prepared: 02/08/19 Analyzed: 02/11/19</b>					
Zinc, Dissolved	95.7	0.94	5.0	ug/l	50.0	48.5	95	70-130	4	30	

## Quality Control Results

(Continued)

### Microbiological Parameters by Standard Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W9B0083 - SM 9221F</b>											
<b>Blank (W9B0083-BLK1)</b>			<b>Prepared: 01/12/19 Analyzed: 01/24/19</b>								
E. coli	ND		1.8	MPN/100ml							
<b>Blank (W9B0083-BLK4)</b>			<b>Prepared: 01/14/19 Analyzed: 01/30/19</b>								
E. coli	ND		1.8	MPN/100ml							



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**Reported:**

03/12/2019 10:23

**Project Manager:** Edmond G. Suher

## Quality Control Results

(Continued)

Semivolatile Organics - Low Level by Tandem GC/MS/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
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**Batch: W9A0922 - EPA 625.1**

**Blank (W9A0922-BLK1)**

**Prepared: 01/16/19 Analyzed: 02/15/19**

1-Methylnaphthalene	ND	0.56	5.0	ng/l							
1-Methylphenanthrene	ND	0.98	5.0	ng/l							
2,6-Dimethylnaphthalene	ND	0.65	5.0	ng/l							
2-Methylnaphthalene	ND	0.82	5.0	ng/l							
Acenaphthene	ND	0.43	5.0	ng/l							
Acenaphthylene	ND	0.52	5.0	ng/l							
Anthracene	ND	0.91	5.0	ng/l							
Benzo (a) anthracene	ND	0.79	5.0	ng/l							
Benzo (a) pyrene	ND	0.58	5.0	ng/l							
Benzo (b) fluoranthene	ND	1.6	5.0	ng/l							
Benzo (e) pyrene	ND	0.95	5.0	ng/l							
Benzo (g,h,i) perylene	ND	0.90	5.0	ng/l							
Benzo (k) fluoranthene	ND	0.52	5.0	ng/l							
Biphenyl	ND	0.49	5.0	ng/l							
Chrysene	ND	0.52	5.0	ng/l							
Dibenzo (a,h) anthracene	ND	1.2	5.0	ng/l							
Fluoranthene	ND	1.3	5.0	ng/l							
Fluorene	ND	0.75	5.0	ng/l							
Indeno (1,2,3-cd) pyrene	ND	0.99	5.0	ng/l							
Naphthalene	3.03	0.53	5.0	ng/l							J
Perylene	ND	3.0	5.0	ng/l							
Phenanthrene	2.66	0.96	5.0	ng/l							J
Pyrene	ND	0.68	5.0	ng/l							

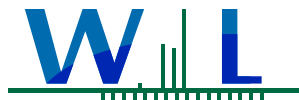
Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	92.1			ng/l	100		92	50-150			
Perylene-d12	70.5			ng/l	100		70	50-150			

**LCS (W9A0922-BS1)**

**Prepared: 01/16/19 Analyzed: 02/15/19**

Acenaphthene	35.6	0.43	5.0	ng/l	50.0		71	50-150			
Acenaphthylene	36.3	0.52	5.0	ng/l	50.0		73	50-150			
Anthracene	33.4	0.91	5.0	ng/l	50.0		67	50-150			
Benzo (a) anthracene	34.6	0.79	5.0	ng/l	50.0		69	50-150			
Benzo (a) pyrene	30.3	0.58	5.0	ng/l	50.0		61	50-150			
Benzo (b) fluoranthene	34.4	1.6	5.0	ng/l	50.0		69	50-150			
Benzo (g,h,i) perylene	16.0	0.90	5.0	ng/l	50.0		32	50-150			BS-03
Benzo (k) fluoranthene	32.3	0.52	5.0	ng/l	50.0		65	50-150			
Chrysene	33.4	0.52	5.0	ng/l	50.0		67	50-150			
Dibenzo (a,h) anthracene	15.8	1.2	5.0	ng/l	50.0		32	50-150			BS-03
Fluoranthene	35.0	1.3	5.0	ng/l	50.0		70	50-150			
Fluorene	36.9	0.75	5.0	ng/l	50.0		74	50-150			



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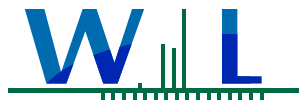
Project Manager: Edmond G. Suher

## Quality Control Results

(Continued)

Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A0922 - EPA 625.1 (Continued)</b>											
<b>LCS (W9A0922-BS1)</b>						<b>Prepared: 01/16/19 Analyzed: 02/15/19</b>					
Indeno (1,2,3-cd) pyrene	19.3	0.99	5.0	ng/l	50.0		39	50-150			BS-03
Naphthalene	41.1	0.53	5.0	ng/l	50.0		82	50-150			
Phenanthrene	38.1	0.96	5.0	ng/l	50.0		76	50-150			
Pyrene	37.6	0.68	5.0	ng/l	50.0		75	50-150			
<i>Surrogate(s)</i>											
1,3-Dimethyl-2-nitrobenzene	94.6			ng/l	100		95	50-150			
Perylene-d12	58.7			ng/l	100		59	50-150			
<b>LCS Dup (W9A0922-BS1)</b>						<b>Prepared: 01/16/19 Analyzed: 02/15/19</b>					
Acenaphthene	39.1	0.43	5.0	ng/l	50.0		78	50-150	10	30	
Acenaphthylene	38.5	0.52	5.0	ng/l	50.0		77	50-150	6	30	
Anthracene	38.8	0.91	5.0	ng/l	50.0		78	50-150	15	30	
Benzo (a) anthracene	37.3	0.79	5.0	ng/l	50.0		75	50-150	7	30	
Benzo (a) pyrene	29.8	0.58	5.0	ng/l	50.0		60	50-150	2	30	
Benzo (b) fluoranthene	36.7	1.6	5.0	ng/l	50.0		73	50-150	6	30	
Benzo (g,h,i) perylene	16.9	0.90	5.0	ng/l	50.0		34	50-150	5	30	BS-03
Benzo (k) fluoranthene	35.2	0.52	5.0	ng/l	50.0		70	50-150	9	30	
Chrysene	36.5	0.52	5.0	ng/l	50.0		73	50-150	9	30	
Dibenzo (a,h) anthracene	17.5	1.2	5.0	ng/l	50.0		35	50-150	10	30	BS-03
Fluoranthene	38.4	1.3	5.0	ng/l	50.0		77	50-150	9	30	
Fluorene	41.2	0.75	5.0	ng/l	50.0		82	50-150	11	30	
Indeno (1,2,3-cd) pyrene	20.6	0.99	5.0	ng/l	50.0		41	50-150	6	30	BS-03
Naphthalene	39.5	0.53	5.0	ng/l	50.0		79	50-150	4	30	
Phenanthrene	42.6	0.96	5.0	ng/l	50.0		85	50-150	11	30	
Pyrene	42.8	0.68	5.0	ng/l	50.0		86	50-150	13	30	
<i>Surrogate(s)</i>											
1,3-Dimethyl-2-nitrobenzene	84.2			ng/l	100		84	50-150			
Perylene-d12	59.9			ng/l	100		60	50-150			
<b>Matrix Spike (W9A0922-MS1)</b>						<b>Source: 9A12002-01 Prepared: 01/16/19 Analyzed: 02/15/19</b>					
Acenaphthene	192	4.3	50	ng/l	250	ND	77	50-150			M-02, M-04
Acenaphthylene	211	5.2	50	ng/l	250	ND	84	50-150			M-02, M-04
Anthracene	196	9.1	50	ng/l	250	ND	78	50-150			M-02, M-04
Benzo (a) anthracene	203	7.9	50	ng/l	250	ND	81	50-150			M-02, M-04
Benzo (a) pyrene	168	5.8	50	ng/l	250	ND	67	50-150			M-02, M-04
Benzo (b) fluoranthene	175	16	50	ng/l	250	ND	70	50-150			M-02, M-04
Benzo (g,h,i) perylene	249	9.0	50	ng/l	250	ND	100	50-150			M-02, M-04
Benzo (k) fluoranthene	178	5.2	50	ng/l	250	ND	71	50-150			M-02, M-04
Chrysene	179	5.2	50	ng/l	250	ND	72	50-150			M-02, M-04
Dibenzo (a,h) anthracene	218	12	50	ng/l	250	ND	87	50-150			M-02, M-04
Fluoranthene	219	13	50	ng/l	250	ND	87	50-150			M-02, M-04



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**Reported:**

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**Project Manager:** Edmond G. Suher

## Quality Control Results

(Continued)

Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W9A0922 - EPA 625.1 (Continued)</b>											
<b>Matrix Spike (W9A0922-MS1)</b>			<b>Source: 9A12002-01</b>			<b>Prepared: 01/16/19 Analyzed: 02/15/19</b>					
Fluorene	199	7.5	50	ng/l	250	ND	79	50-150			M-02, M-04
Indeno (1,2,3-cd) pyrene	241	9.9	50	ng/l	250	ND	96	50-150			M-02, M-04
Naphthalene	194	5.3	50	ng/l	250	14.6	72	50-150			M-02, M-04
Phenanthrene	201	9.6	50	ng/l	250	31.4	68	50-150			M-02, M-04
Pyrene	207	6.8	50	ng/l	250	9.11	79	50-150			M-02, M-04
<i>Surrogate(s)</i>											
1,3-Dimethyl-2-nitrobenzene	460			ng/l	500		92	50-150			M-02, M-04
Perylene-d12	210			ng/l	500		42	50-150			M-02, M-04
<b>Matrix Spike Dup (W9A0922-MSD1)</b>			<b>Source: 9A12002-01</b>			<b>Prepared: 01/16/19 Analyzed: 02/15/19</b>					
Acenaphthene	215	4.3	50	ng/l	250	ND	86	50-150	11	30	M-02, M-04
Acenaphthylene	239	5.2	50	ng/l	250	ND	96	50-150	12	30	M-02, M-04
Anthracene	228	9.1	50	ng/l	250	ND	91	50-150	15	30	M-02, M-04
Benzo (a) anthracene	214	7.9	50	ng/l	250	ND	86	50-150	5	30	M-02, M-04
Benzo (a) pyrene	250	5.8	50	ng/l	250	ND	100	50-150	39	30	M-02, M-04
Benzo (b) fluoranthene	219	16	50	ng/l	250	ND	88	50-150	22	30	M-02, M-04
Benzo (g,h,i) perylene	161	9.0	50	ng/l	250	ND	64	50-150	43	30	M-02, M-04
Benzo (k) fluoranthene	242	5.2	50	ng/l	250	ND	97	50-150	31	30	M-02, M-04
Chrysene	186	5.2	50	ng/l	250	ND	74	50-150	4	30	M-02, M-04
Dibenzo (a,h) anthracene	201	12	50	ng/l	250	ND	80	50-150	8	30	M-02, M-04
Fluoranthene	214	13	50	ng/l	250	ND	86	50-150	2	30	M-02, M-04
Fluorene	225	7.5	50	ng/l	250	ND	90	50-150	12	30	M-02, M-04
Indeno (1,2,3-cd) pyrene	187	9.9	50	ng/l	250	ND	75	50-150	25	30	M-02, M-04
Naphthalene	228	5.3	50	ng/l	250	14.6	85	50-150	16	30	M-02, M-04
Phenanthrene	236	9.6	50	ng/l	250	31.4	82	50-150	16	30	M-02, M-04
Pyrene	223	6.8	50	ng/l	250	9.11	86	50-150	8	30	M-02, M-04
<i>Surrogate(s)</i>											
1,3-Dimethyl-2-nitrobenzene	530			ng/l	500		106	50-150			M-02, M-04
Perylene-d12	353			ng/l	500		71	50-150			M-02, M-04





WECK LABORATORIES, INC.

AEI-CASC Consulting  
2740 W. Magnolia Blvd., Ste.102  
Burbank, CA 91505

# Certificate of Analysis

FINAL REPORT

**Project Number:** Irwindale SW Outfall Monitoring

**Reported:**

03/12/2019 10:23

**Project Manager:** Edmond G. Suher



## Notes and Definitions

Item	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
BS-03	The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria.
J	Estimated conc. detected <MRL and >MDL.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
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.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
MS-03	Multiple analyses indicate the percent recovery is out of acceptance limits due to a possible matrix effect.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.
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.

## STANDARD CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

WECK WKO# 9A12002-

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# Inland Project

WECK LABORATORIES, INC.

Analytical Laboratory Service - Since 1964

## Analytical Service Quotation

**Contact:** Ed Suher  
**Client Name:** AEI-CASC Consulting  
**Address:** 2740 W. Magnolia Blvd., Ste.102  
Burbank, CA 91505  
**Phone:** (818) 841-9004  
**Fax:** (818) 841-8013

**Printed:** 10/18/2017  
**Effective:** 10/17/17  
**Expires:** 06/30/18

**Project:** MS4 - Storm Water Monitoring 2017-2018

Code	Method	Qty	TAT * (workdays)	Unit Price	Extended Price
<b>Water</b>					
200.7 Hardness	_Varies	1	15	\$15.00	\$15.00
Alkalinity, total - SM 2320B	SM 2320B	1	15	\$5.00	\$5.00
Aluminum - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Aluminum, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Ammonia-N - EPA 350.1	EPA 350.1	1	15	\$15.00	\$15.00
Antimony - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Antimony, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Arsenic - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Arsenic, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Biochemical Oxygen Demand - SM5210B	SM 5210B	1	15	\$40.00	\$40.00
Cadmium - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Cadmium, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Chemical Oxygen Demand - EPA 410.4	EPA 410.4	1	15	\$20.00	\$20.00
Chloride - EPA 300.0	EPA 300.0	1	15	\$15.00	\$15.00
Chromium - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Chromium, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Chromium, Hexavalent - EPA 218.6	EPA 218.6	1	15	\$35.00	\$35.00
Chromium, Hexavalent, dissolved - EPA 218.6	EPA 218.6	1	15	\$50.00	\$50.00
Copper - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Copper, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Cyanide, Total - ASTM D 7511	ASTM D7511	1	15	\$40.00	\$40.00
Dissolved Oxygen - SM 4500O-G	SM 4500O-G	1	15	\$15.00	\$15.00
E.Coli Coliform by Enumeration SM9221 F	SM 9221F	1	15	\$20.00	\$20.00
<del>Enterococcus - Enterolert</del>	<del>Enterolert</del>	<del>1</del>	<del>15</del>	<del>\$35.00</del>	<del>\$35.00</del>
<del>EPA 515.0 - Chlorinated Acid Herbicides</del>	<del>EPA 515.0</del>	<del>1</del>	<del>15</del>	<del>\$400.00</del>	<del>\$400.00</del>
EPA 8015B - Diesel & Oil Range Organics (DRO/ORO)	EPA 8015D	1	15	\$45.00	\$45.00
<del>Fecal Coliform by Enumeration SM9221E 3 dilutions</del>	<del>SM 9221E</del>	<del>1</del>	<del>15</del>	<del>\$25.00</del>	<del>\$25.00</del>
Iron - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Iron, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Lead - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Lead, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
MBAS - SM 5540 C	SM 5540C	1	15	\$30.00	\$30.00
Mercury, Diss, low-level - EPA 1631E	EPA 1631E	1	15	\$100.00	\$100.00
Mercury, total, low-level - EPA 1631E	EPA 1631E	1	15	\$100.00	\$100.00
Nickel - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Nickel, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Nitrite+Nitrate-N - EPA 300.0	EPA 300.0	1	15	\$15.00	\$15.00
PAHs low level in water by GC/MS/MS	GC/MS/MS	1	15	\$215.00	\$215.00
Phenolics in water - EPA 420.4	EPA 420.4	1	15	\$45.00	\$45.00
Phosphorus Dissolved - EPA 365.3	EPA 365.3	1	15	\$40.00	\$40.00



*Inwindale cont'd*

WECK LABORATORIES, INC.

Analytical Laboratory Service - Since 1964

Code	Method	Qty	TAT * (workdays)	Unit Price	Extended Price
Phosphorus, Total as P - EPA 365.1	EPA 365.1	1	15	\$30.00	\$30.00
Specific Conductance (EC) - SM 2510B	SM 2510B	1	15	\$25.00	\$25.00
Sulfate - EPA 300.0	EPA 300.0	1	15	\$15.00	\$15.00
<del>Total Coliforms by Enumeration - SM 9221B 3 dil.</del>	<del>SM 9221B</del>	<del>1</del>	<del>15</del>	<del>\$45.00</del>	<del>\$45.00</del>
Total Dissolved Solids - SM 2540C	SM 2540C	1	15	\$15.00	\$15.00
Total Kjeldahl Nitrogen by EPA 351.2	EPA 351.2	1	15	\$35.00	\$35.00
Total Organic Carbon - SM 5310C	SM 5310C	1	15	\$35.00	\$35.00
Total Suspended Solids - SM 2540D	SM 2540D	1	15	\$15.00	\$15.00
Turbidity - EPA 180.1	EPA 180.1	1	15	\$10.00	\$10.00
Volatile Suspended Solids - 160.4	EPA 160.4	1	15	\$15.00	\$15.00
Zinc - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
Zinc, dissolved - EPA 200.8	EPA 200.8	1	15	\$10.00	\$10.00
<b>Additional Items</b> (if requested or applicable, will be charged at listed rates)					
Afterhours - Holiday 10p before-8a after /hr/empl		1		\$400.00	\$400.00
Afterhours - Rain Event - Standby flat fee		1		\$300.00	\$300.00
Afterhours - Weekday 10p-8a /hour/employee		1		\$300.00	\$300.00
Afterhours - Weekday 6p-10p /hour/employee		1		\$200.00	\$200.00
Afterhours - Weekend 10p Fri-8a Mon /hr/empl		1		\$300.00	\$300.00
Extra per micro dilution		1		\$10.00	\$10.00
Filtration Fee		1		\$15.00	\$15.00

**Bid Total: \$2,985.00**

**200.7 Hardness consists of:**  
Calcium - EPA 200.7

*Marilyn Romero*

**Marilyn Romero**  
**Client Services Manager**

\* Subject to Capacity

Payment terms are NET 30 days from invoice date. New accounts require payment prior to the release of test results until a credit application has been approved. Weck Laboratories accepts credit card payments (VISA/Master Card, American Express). Credit application/credit card approval form and Weck Laboratories' terms & conditions can be found at [www.wecklabs.com](http://www.wecklabs.com) under Resources. Paperless reports (PDF) are included while mailed paper reports are available at additional cost.

Method Reporting Limits (MRL) and Method Detection Limits (MDL) are based upon specified sample volume or weight. When matrix interferences are apparent, sample amounts may be reduced during the preparation step and/or may be diluted prior to analysis. This is done to reduce analytical interference and instrumental contamination and will result in elevated MRL/ MDL on the test report.