

Work Orders: 8C21103

Project: MS4 - Storm Water Monitoring 2017-2018

Attn: Edmond G. Suher

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

Report Date: 4/27/2018

Received Date: 3/21/2018

Turnaround Time: Normal

Phones: (818) 841-9004

Fax: (818) 841-8013

P.O. #:

Billing Code:

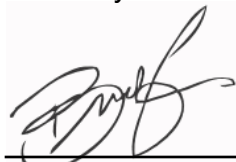
DoD-ELAP #L2457 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • ISO 17025 #L2457.01 • LACSD #10143 • NJ-DEP #CA015

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 Edmond G. Suher,

Enclosed are the results of analyses for samples received 3/21/18 with the Chain-of-Custody document. The samples were received in good condition, at 4.7 °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





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AEI-CASC Consulting
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Certificate of Analysis

FINAL REPORT

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04/27/2018 15:05

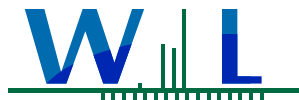
Project Manager: Edmond G. Suher

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Outfall #6 (LL)	ES/MT	8C21103-01	Water	03/21/18 12:14	
Outfall #7 (SG)	ES/MT	8C21103-02	Water	03/21/18 13:11	
Outfall #5 (RH)	ES/MT	8C21103-03	Water	03/21/18 13:55	

Not Certified Analyses Summary

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



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Sample Results

Sample: Outfall #6 (LL) Sampled: 03/21/18 12:14 by ES/MT
8C21103-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1300	Instr: LC12	Prepared: 03/22/18 10:05	Analyst: jan	
Chloride, Total	25	0.50	mg/l	1	03/22/18 19:58
NO2+NO3 as N	3.7	0.11	mg/l	1	03/22/18 19:58
Sulfate as SO4	23	0.50	mg/l	1	03/22/18 19:58

Chlorinated Acids Herbicides by GC/ECD

Method: EPA 515.3	Batch ID: W8C1378	Instr: GC08	Prepared: 03/23/18 09:01	Analyst: rmr
2,4,5-T		ND	0.20 ug/l	1 03/27/18 00:02
2,4,5-TP (Silvex)		ND	0.20 ug/l	1 03/27/18 00:02
2,4-D		ND	0.40 ug/l	1 03/27/18 00:02
2,4-DB		ND	2.0 ug/l	1 03/27/18 00:02
3,5-Dichlorobenzoic acid		ND	1.0 ug/l	1 03/27/18 00:02
Acifluorfen		ND	0.40 ug/l	1 03/27/18 00:02
Bentazon		ND	2.0 ug/l	1 03/27/18 00:02
Dalapon		ND	0.40 ug/l	1 03/27/18 00:02
DCPA		ND	0.10 ug/l	1 03/27/18 00:02
Dicamba		ND	0.60 ug/l	1 03/27/18 00:02
Dichloroprop		ND	0.30 ug/l	1 03/27/18 00:02
Dinoseb		ND	0.40 ug/l	1 03/27/18 00:02
Pentachlorophenol	0.33		0.20 ug/l	1 03/27/18 00:02
Picloram		ND	0.60 ug/l	1 03/27/18 00:02
Surrogate(s)				
2,4-DCAA	94%	Conc: 9.42	70-130	03/27/18 00:02

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

Method: EPA 160.4	Batch ID: W8C1497	Instr: Inst	Prepared: 03/26/18 08:48	Analyst: mic	
Volatile Suspended Solids		30	5.0 mg/l	1	03/26/18 20:00
Method: EPA 180.1	Batch ID: W8C1266	Instr: TURB01	Prepared: 03/21/18 17:39	Analyst: stg	
Turbidity		38	0.10 NTU	1	03/21/18 18:45
Method: EPA 335.4	Batch ID: W8C1846	Instr: AA01	Prepared: 03/30/18 09:25	Analyst: AJK	
Cyanide, Total		ND	5.0 ug/l	1	03/30/18 17:54
Method: EPA 350.1	Batch ID: W8C1695	Instr: AA06	Prepared: 03/28/18 09:59	Analyst: mnq	
Ammonia as N		0.61	0.10 mg/l	1	03/29/18 18:17
Method: EPA 351.2	Batch ID: W8C1763	Instr: AA06	Prepared: 03/28/18 18:32	Analyst: ymt	
TKN		2.1	0.10 mg/l	1	04/02/18 16:56
Method: EPA 365.1	Batch ID: W8C1539	Instr: AA01	Prepared: 03/26/18 13:21	Analyst: AJK	
Phosphorus as P, Total		0.35	0.040 mg/l	2	03/30/18 13:05
Method: EPA 365.3	Batch ID: W8C1705	Instr: UVVIS04	Prepared: 03/28/18 10:46	Analyst: stg	
Phosphorus, Dissolved		0.19	0.010 mg/l	1	04/02/18 14:51

8C21103

Page 3 of 32



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Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: Outfall #6 (LL)

Sampled: 03/21/18 12:14 by ES/MT

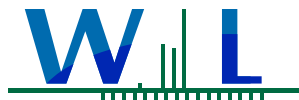
8C21103-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4 Chemical Oxygen Demand	Batch ID: W8C1693 Instr: Inst 62	Prepared: 03/28/18 09:55 5.0	mg/l	1	Analyst: mnq 03/30/18 20:03	
Method: EPA 420.4 Phenolics	Batch ID: W8C1573 Instr: AA03 0.13	Prepared: 03/26/18 18:04 0.010	mg/l	1	Analyst: YMT 03/29/18 17:20	
Method: SM 2320B Alkalinity as CaCO3	Batch ID: W8C1477 Instr: AA02 73	Prepared: 03/25/18 10:28 2.0	mg/l	1	Analyst: stg 03/25/18 13:06	
Method: SM 2510B Specific Conductance (EC)	Batch ID: W8C1609 Instr: AA02 310	Prepared: 03/27/18 10:24 2.0	umhos/cm	1	Analyst: stg 03/27/18 13:15	
Method: SM 2540C Total Dissolved Solids	Batch ID: W8C1494 Instr: Inst 230	Prepared: 03/26/18 08:14 10	mg/l	1	Analyst: ymt 03/26/18 17:57	
Method: SM 2540D Total Suspended Solids	Batch ID: W8C1498 Instr: Inst 70	Prepared: 03/26/18 08:51 5	mg/l	1	Analyst: mic 03/26/18 20:00	
Method: SM 4500O-G Dissolved Oxygen	Batch ID: W8C1273 Instr: Inst 7.79	Prepared: 03/21/18 19:18 1.00	mg/l	1	Analyst: mic 03/21/18 19:40	*
Method: SM 5210B Biochemical Oxygen Demand	Batch ID: W8C1295 Instr: Inst 64	Prepared: 03/22/18 20:00 2.0	mg/l	1	Analyst: mic 03/27/18 18:48	
Method: SM 5310B Total Organic Carbon (TOC)	Batch ID: W8C1690 Instr: TOC02 79	Prepared: 03/28/18 09:45 0.10	mg/l	1	Analyst: jlp 03/28/18 15:00	
Method: SM 5540C MBAS	Batch ID: W8C1332 Instr: UVVIS03 1.5	Prepared: 03/22/18 13:12 0.25	mg/l	5	Analyst: ymt 03/22/18 20:17	
Hexavalent Chromium by IC						
Method: EPA 218.6 Chromium 6+	Batch ID: W8C1421 Instr: LC13 1.1	Prepared: 03/23/18 15:33 0.10	ug/l	5	Analyst: dil 03/23/18 21:50	
Chromium 6+, Dissolved	0.53	0.10	ug/l	5	03/23/18 22:02	
Hydrocarbons by GC/FID						
Method: EPA 8015D Diesel Range Organics	Batch ID: W8C1291 Instr: GC04 9.3	Prepared: 03/22/18 09:11 1.0	mg/l	10	Analyst: cam 03/28/18 07:37	
Oil Range Organics	7.2	5.0	mg/l	10	03/28/18 07:37	
Surrogate(s)						
n-Tetracosane	125% Conc: 0.312	64-155	03/28/18 07:37			
Metals by EPA 200 Series Methods						
Method: EPA 200.7 Calcium Hardness as CaCO3	Batch ID: [CALC] Instr: [CALC] 64.3	Prepared: 03/30/18 09:02 0.250	mg/l	1	Analyst: JCK 04/02/18 14:20	
Method: EPA 200.7 Calcium, Total	Batch ID: W8C1841 Instr: ICP03 25.7	Prepared: 03/30/18 09:02 0.100	mg/l	1	Analyst: JCK 04/02/18 14:20	
Method: EPA 200.8 Aluminum, Dissolved	Batch ID: W8C1842 Instr: ICPMS02 36	Prepared: 03/30/18 09:16 5.0	ua/l	1	Analyst: MTT 04/06/18 00:27	

8C21103

Page 4 of 32



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Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: Outfall #6 (LL)

Sampled: 03/21/18 12:14 by ES/MT

8C21103-01 (Water)

(Continued)

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

Method: EPA 200.8	Batch ID: W8C1842	Instr: ICPMS02	Prepared: 03/30/18 09:16			Analyst: MTT
Aluminum, Total	1300	5.0	ug/l	1	04/06/18 00:34	
Antimony, Dissolved	3.6	0.50	ug/l	1	04/06/18 00:27	
Antimony, Total	5.1	0.50	ug/l	1	04/06/18 00:34	
Arsenic, Dissolved	1.1	0.40	ug/l	1	04/06/18 00:27	
Arsenic, Total	1.8	0.40	ug/l	1	04/06/18 00:34	
Cadmium, Dissolved	0.20	0.10	ug/l	1	04/06/18 00:27	
Cadmium, Total	0.40	0.10	ug/l	1	04/06/18 00:34	
Chromium, Dissolved	1.8	0.20	ug/l	1	04/06/18 00:27	
Chromium, Total	5.3	0.20	ug/l	1	04/06/18 00:34	
Copper, Dissolved	59	0.50	ug/l	1	04/06/18 00:27	
Copper, Total	83	0.50	ug/l	1	04/06/18 00:34	
Iron, Dissolved	140	20	ug/l	1	04/06/18 00:27	
Iron, Total	2300	20	ug/l	1	04/06/18 00:34	
Lead, Dissolved	0.59	0.20	ug/l	1	04/06/18 00:27	
Lead, Total	11	0.20	ug/l	1	04/06/18 00:34	
Nickel, Dissolved	10	0.80	ug/l	1	04/06/18 00:27	
Nickel, Total	13	0.80	ug/l	1	04/06/18 00:34	
Zinc, Dissolved	380	5.0	ug/l	1	04/06/18 00:27	
Zinc, Total	540	5.0	ug/l	1	04/06/18 00:34	

Microbiological Parameters by Standard Methods

Method: Enterolert	Batch ID: W8D1609	Instr: Inst	Prepared: 03/21/18 16:39	Analyst: slh
Enterococcus		10000	10 MPN/100ml	10 03/22/18 18:02
Method: SM 9221B	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh
Total Coliform		16000	18 MPN/100ml	10 04/23/18 14:20
Method: SM 9221E	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh
Fecal Coliform		1700	18 MPN/100ml	10 04/22/18 12:30
Method: SM 9221F	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh
E. coli		1700	18 MPN/100ml	10 04/22/18 12:30

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

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC		
Acenaphthene	ND	25	ng/l	1	03/30/18 19:48	M-02
Acenaphthylene	ND	25	ng/l	1	03/30/18 19:48	M-02
Anthracene	ND	25	ng/l	1	03/30/18 19:48	M-02
Benzo (a) anthracene	ND	25	ng/l	1	03/30/18 19:48	M-02
Benzo (a) pyrene	ND	25	ng/l	1	03/30/18 19:48	M-02
Benzo (b) fluoranthene	ND	25	ng/l	1	03/30/18 19:48	M-02

8C21103

Page 5 of 32



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(Continued)

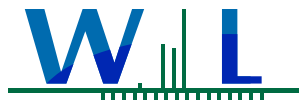
Sample: Outfall #6 (LL)

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8C21103-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)						
Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC		
Benzo (g,h,i) perylene	ND	25	ng/l	1	03/30/18 19:48	M-02
Benzo (k) fluoranthene	ND	25	ng/l	1	03/30/18 19:48	M-02
Chrysene	ND	25	ng/l	1	03/30/18 19:48	M-02
Dibenzo (a,h) anthracene	ND	25	ng/l	1	03/30/18 19:48	M-02
Fluoranthene	ND	25	ng/l	1	03/30/18 19:48	M-02
Fluorene	ND	25	ng/l	1	03/30/18 19:48	M-02
Indeno (1,2,3-cd) pyrene	ND	25	ng/l	1	03/30/18 19:48	M-02
Naphthalene	ND	25	ng/l	1	03/30/18 19:48	M-02
Phenanthrene	ND	25	ng/l	1	03/30/18 19:48	M-02
Pyrene	ND	25	ng/l	1	03/30/18 19:48	M-02
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	106% Conc: 528	50-150			03/30/18 19:48	M-02
Perylene-d12	66% Conc: 328	50-150			03/30/18 19:48	M-02



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Sample Results

(Continued)

Sample: Outfall #7 (SG) Sampled: 03/21/18 13:11 by ES/MT

8C21103-02 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1300	Instr: LC12	Prepared: 03/22/18 10:05	Analyst: jan	
Chloride, Total	1.9	0.50	mg/l	1	03/22/18 20:16
NO2+NO3 as N	0.61	0.11	mg/l	1	03/22/18 20:16
Sulfate as SO4	2.9	0.50	mg/l	1	03/22/18 20:16

Chlorinated Acids Herbicides by GC/ECD

Method: EPA 515.3	Batch ID: W8C1378	Instr: GC08	Prepared: 03/23/18 09:01			Analyst: rmr
2,4,5-T		ND	0.20	ug/l	1	03/27/18 00:39
2,4,5-TP (Silvex)		ND	0.20	ug/l	1	03/27/18 00:39
2,4-D		ND	0.40	ug/l	1	03/27/18 00:39
2,4-DB		ND	2.0	ug/l	1	03/27/18 00:39
3,5-Dichlorobenzoic acid		ND	1.0	ug/l	1	03/27/18 00:39
Acifluorfen		ND	0.40	ug/l	1	03/27/18 00:39
Bentazon		ND	2.0	ug/l	1	03/27/18 00:39
Dalapon		ND	0.40	ug/l	1	03/27/18 00:39
DCPA		ND	0.10	ug/l	1	03/27/18 00:39
Dicamba		ND	0.60	ug/l	1	03/27/18 00:39
Dichloroprop		ND	0.30	ug/l	1	03/27/18 00:39
Dinoseb		ND	0.40	ug/l	1	03/27/18 00:39
Pentachlorophenol		0.49	0.20	ug/l	1	03/27/18 00:39
Picloram		ND	0.60	ug/l	1	03/27/18 00:39
Surrogate(s)						
2,4-DCAA		101% Conc: 10.1	70-130			03/27/18 00:39

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

Method: EPA 160.4	Batch ID: W8C1497	Instr: Inst	Prepared: 03/26/18 08:48	Analyst: mic	
Volatile Suspended Solids		25	5.0 mg/l	1	03/26/18 20:00
Method: EPA 180.1	Batch ID: W8C1266	Instr: TURB01	Prepared: 03/21/18 17:39	Analyst: stg	
Turbidity		20	0.10 NTU	1	03/21/18 18:45
Method: EPA 335.4	Batch ID: W8C1846	Instr: AA01	Prepared: 03/30/18 09:25	Analyst: AJK	
Cyanide, Total		ND	5.0 ug/l	1	03/30/18 17:54
Method: EPA 350.1	Batch ID: W8C1695	Instr: AA06	Prepared: 03/28/18 09:59	Analyst: mnq	
Ammonia as N		0.60	0.10 mg/l	1	03/29/18 18:17
Method: EPA 351.2	Batch ID: W8C1763	Instr: AA06	Prepared: 03/28/18 18:32	Analyst: ymt	
TKN		2.4	0.10 mg/l	1	04/02/18 16:56
Method: EPA 365.1	Batch ID: W8C1539	Instr: AA01	Prepared: 03/26/18 13:21	Analyst: AJK	
Phosphorus as P, Total		0.40	0.040 mg/l	2	03/30/18 13:15
Method: EPA 365.3	Batch ID: W8C1705	Instr: UVVIS04	Prepared: 03/28/18 10:46	Analyst: stg	
Phosphorus, Dissolved		0.23	0.010 mg/l	1	04/02/18 14:51

8C21103

Page 7 of 32

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Sample Results

(Continued)

Sample: Outfall #7 (SG) Sampled: 03/21/18 13:11 by ES/MT
8C21103-02 (Water) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4	Batch ID: W8C1693	Instr: Inst	Prepared: 03/28/18 09:55	Analyst: mnq		
Chemical Oxygen Demand	76	5.0	mg/l	1	03/30/18 20:03	
Method: EPA 420.4	Batch ID: W8C1573	Instr: AA03	Prepared: 03/26/18 18:04	Analyst: YMT		
Phenolics	0.036	0.010	mg/l	1	03/29/18 17:22	
Method: SM 2320B	Batch ID: W8C1477	Instr: AA02	Prepared: 03/25/18 10:28	Analyst: stg		
Alkalinity as CaCO3	24	2.0	mg/l	1	03/25/18 13:06	
Method: SM 2510B	Batch ID: W8C1609	Instr: AA02	Prepared: 03/27/18 10:24	Analyst: stg		
Specific Conductance (EC)	63	2.0	umhos/cm	1	03/27/18 13:15	
Method: SM 2540C	Batch ID: W8C1494	Instr: Inst	Prepared: 03/26/18 08:14	Analyst: ymt		
Total Dissolved Solids	35	10	mg/l	1	03/26/18 17:57	
Method: SM 2540D	Batch ID: W8C1498	Instr: Inst	Prepared: 03/26/18 08:51	Analyst: mic		
Total Suspended Solids	76	5	mg/l	1	03/26/18 20:00	
Method: SM 4500O-G	Batch ID: W8C1273	Instr: Inst	Prepared: 03/21/18 19:18	Analyst: mic		
Dissolved Oxygen	8.84	1.00	mg/l	1	03/21/18 19:40	*
Method: SM 5210B	Batch ID: W8C1295	Instr: Inst	Prepared: 03/22/18 20:00	Analyst: mic		
Biochemical Oxygen Demand	15	2.0	mg/l	1	03/27/18 18:48	
Method: SM 5310B	Batch ID: W8C1690	Instr: TOC02	Prepared: 03/28/18 09:45	Analyst: jlp		
Total Organic Carbon (TOC)	12	0.10	mg/l	1	03/28/18 15:00	
Method: SM 5540C	Batch ID: W8C1332	Instr: UVVIS03	Prepared: 03/22/18 13:12	Analyst: ymt		
MBAS	0.26	0.050	mg/l	1	03/22/18 20:17	
Hydrocarbons by GC/FID						
Method: EPA 8015D	Batch ID: W8C1291	Instr: GC04	Prepared: 03/22/18 09:11	Analyst: cam		
Diesel Range Organics	1.6	0.10	mg/l	1	03/27/18 23:59	
Oil Range Organics	2.2	0.50	mg/l	1	03/27/18 23:59	
<i>Surrogate(s)</i>						
<i>n-Tetracosane</i>	122% Conc: 0.306	64-155			03/27/18 23:59	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	Batch ID: [CALC]	Instr: [CALC]	Prepared: 03/30/18 09:02	Analyst: JCK		
Calcium Hardness as CaCO3	14.8	0.250	mg/l	1	04/02/18 14:23	
Method: EPA 200.7	Batch ID: W8C1841	Instr: ICP03	Prepared: 03/30/18 09:02	Analyst: JCK		
Calcium, Total	5.92	0.100	mg/l	1	04/02/18 14:23	
Method: EPA 200.8	Batch ID: W8C1842	Instr: ICPMS02	Prepared: 03/30/18 09:16	Analyst: MTT		
Aluminum, Dissolved	17	5.0	ug/l	1	04/06/18 00:42	
Aluminum, Total	1500	5.0	ug/l	1	04/06/18 00:49	
Antimony, Dissolved	1.1	0.50	ug/l	1	04/06/18 00:42	
Antimony, Total	2.7	0.50	ug/l	1	04/06/18 00:49	
Arsenic, Dissolved	0.72	0.40	ug/l	1	04/06/18 00:42	



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FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

Reported:

04/27/2018 15:05

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: Outfall #7 (SG) Sampled: 03/21/18 13:11 by ES/MT
8C21103-02 (Water) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Method: EPA 200.8	Batch ID: W8C1842	Instr: ICPMS02	Prepared: 03/30/18 09:16	Analyst: MTT		
Arsenic, Total	1.4	0.40	ug/l	1	04/06/18 00:49	
Cadmium, Dissolved	ND	0.10	ug/l	1	04/06/18 00:42	
Cadmium, Total	0.14	0.10	ug/l	1	04/06/18 00:49	
Chromium, Dissolved	0.58	0.20	ug/l	1	04/06/18 00:42	
Chromium, Total	3.6	0.20	ug/l	1	04/06/18 00:49	
Copper, Dissolved	10	0.50	ug/l	1	04/06/18 00:42	
Copper, Total	24	0.50	ug/l	1	04/06/18 00:49	
Iron, Dissolved	32	20	ug/l	1	04/06/18 00:42	
Iron, Total	2100	20	ug/l	1	04/06/18 00:49	
Lead, Dissolved	0.21	0.20	ug/l	1	04/06/18 00:42	
Lead, Total	9.4	0.20	ug/l	1	04/06/18 00:49	
Nickel, Dissolved	1.3	0.80	ug/l	1	04/06/18 00:42	
Nickel, Total	3.8	0.80	ug/l	1	04/06/18 00:49	
Zinc, Dissolved	34	5.0	ug/l	1	04/06/18 00:42	
Zinc, Total	120	5.0	ug/l	1	04/06/18 00:49	

Microbiological Parameters by Standard Methods

Method: Enterolert	Batch ID: W8D1609	Instr: Inst	Prepared: 03/21/18 16:39	Analyst: slh		
Enterococcus	24000	10	MPN/100ml	10	03/22/18 18:02	
Method: SM 9221B	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh		
Total Coliform	92000	18	MPN/100ml	10	04/23/18 14:20	
Method: SM 9221E	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh		
Fecal Coliform	16000	18	MPN/100ml	10	04/22/18 12:30	
Method: SM 9221F	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh		
E. coli	16000	18	MPN/100ml	10	04/22/18 12:30	

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

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC		
Acenaphthene	ND	25	ng/l	1	03/30/18 20:15	M-02
Acenaphthylene	ND	25	ng/l	1	03/30/18 20:15	M-02
Anthracene	ND	25	ng/l	1	03/30/18 20:15	M-02
Benzo (a) anthracene	ND	25	ng/l	1	03/30/18 20:15	M-02
Benzo (a) pyrene	ND	25	ng/l	1	03/30/18 20:15	M-02
Benzo (b) fluoranthene	ND	25	ng/l	1	03/30/18 20:15	M-02
Benzo (g,h,i) perylene	ND	25	ng/l	1	03/30/18 20:15	M-02
Benzo (k) fluoranthene	ND	25	ng/l	1	03/30/18 20:15	M-02
Chrysene	ND	25	ng/l	1	03/30/18 20:15	M-02
Dibenzo (a,h) anthracene	ND	25	ng/l	1	03/30/18 20:15	M-02

8C21103

Page 9 of 32



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FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

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Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: Outfall #7 (SG) Sampled: 03/21/18 13:11 by ES/MT
8C21103-02 (Water) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)						
Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC		
Fluoranthene	ND	25	ng/l	1	03/30/18 20:15	M-02
Fluorene	ND	25	ng/l	1	03/30/18 20:15	M-02
Indeno (1,2,3-cd) pyrene	ND	25	ng/l	1	03/30/18 20:15	M-02
Naphthalene	ND	25	ng/l	1	03/30/18 20:15	M-02
Phenanthrene	50	25	ng/l	1	03/30/18 20:15	M-02
Pyrene	ND	25	ng/l	1	03/30/18 20:15	M-02
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	87% Conc: 434	50-150			03/30/18 20:15	M-02
Perylene-d12	82% Conc: 410	50-150			03/30/18 20:15	M-02

Sample: Outfall #7 (SG) Sampled: 03/21/18 13:11 by ES/MT
8C21103-02RE2 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W8C1788	Instr: LC13	Prepared: 03/29/18 10:04	Analyst: dil		
Chromium 6+	0.44	0.020	ug/l	1	03/29/18 12:14	
Chromium 6+, Dissolved	0.44	0.020	ug/l	1	03/29/18 12:26	



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FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

Reported:

04/27/2018 15:05

Project Manager: Edmond G. Suher

Sample Results

(Continued)

Sample: Outfall #5 (RH) Sampled: 03/21/18 13:55 by ES/MT

8C21103-03 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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Anions by IC, EPA Method 300.0

Method: EPA 300.0	Batch ID: W8C1300	Instr: LC12	Prepared: 03/22/18 10:05	Analyst: jan	
Chloride, Total	1.4	0.50	mg/l	1	03/22/18 20:34
NO2+NO3 as N	0.45	0.11	mg/l	1	03/22/18 20:34
Sulfate as SO4	2.5	0.50	mg/l	1	03/22/18 20:34

Chlorinated Acids Herbicides by GC/ECD

Method: EPA 515.3	Batch ID: W8C1378	Instr: GC08	Prepared: 03/23/18 09:01	Analyst: rmr
2,4,5-T		ND	0.20 ug/l	1 03/27/18 01:16
2,4,5-TP (Silvex)		ND	0.20 ug/l	1 03/27/18 01:16
2,4-D		ND	0.40 ug/l	1 03/27/18 01:16
2,4-DB		ND	2.0 ug/l	1 03/27/18 01:16
3,5-Dichlorobenzoic acid		ND	1.0 ug/l	1 03/27/18 01:16
Acifluorfen		ND	0.40 ug/l	1 03/27/18 01:16
Bentazon		ND	2.0 ug/l	1 03/27/18 01:16
Dalapon		ND	0.40 ug/l	1 03/27/18 01:16
DCPA		ND	0.10 ug/l	1 03/27/18 01:16
Dicamba		ND	0.60 ug/l	1 03/27/18 01:16
Dichloroprop		ND	0.30 ug/l	1 03/27/18 01:16
Dinoseb		ND	0.40 ug/l	1 03/27/18 01:16
Pentachlorophenol	0.28		0.20 ug/l	1 03/27/18 01:16
Picloram		ND	0.60 ug/l	1 03/27/18 01:16
Surrogate(s)				
2,4-DCAA	103% Conc: 10.3	70-130		03/27/18 01:16

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

Method: EPA 160.4	Batch ID: W8C1497	Instr: Inst	Prepared: 03/26/18 08:48	Analyst: mic	
Volatile Suspended Solids		33	5.0 mg/l	1	03/26/18 20:00
Method: EPA 180.1	Batch ID: W8C1266	Instr: TURB01	Prepared: 03/21/18 17:39	Analyst: stg	
Turbidity		30	0.10 NTU	1	03/21/18 18:45
Method: EPA 335.4	Batch ID: W8C1846	Instr: AA01	Prepared: 03/30/18 09:25	Analyst: AJK	
Cyanide, Total		ND	5.0 ug/l	1	03/30/18 17:55
Method: EPA 350.1	Batch ID: W8C1695	Instr: AA06	Prepared: 03/28/18 09:59	Analyst: mnq	
Ammonia as N		0.43	0.10 mg/l	1	03/29/18 18:17
Method: EPA 351.2	Batch ID: W8C1763	Instr: AA06	Prepared: 03/28/18 18:32	Analyst: ymt	
TKN		1.6	0.10 mg/l	1	04/02/18 16:56
Method: EPA 365.1	Batch ID: W8C1539	Instr: AA01	Prepared: 03/26/18 13:21	Analyst: AJK	
Phosphorus as P, Total		0.29	0.020 mg/l	1	03/30/18 13:25
Method: EPA 365.3	Batch ID: W8C1705	Instr: UVVIS04	Prepared: 03/28/18 10:46	Analyst: stg	
Phosphorus, Dissolved		0.079	0.010 mg/l	1	04/02/18 14:51

8C21103

Page 11 of 32

AEI-CASC Consulting
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Project Number: MS4 - Storm Water Monitoring 2017-2018

Reported:
04/27/2018 15:05

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Sample Results

(Continued)

Sample: Outfall #5 (RH) Sampled: 03/21/18 13:55 by ES/MT
8C21103-03 (Water) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 410.4 Chemical Oxygen Demand	Batch ID: W8C1693 Instr: Inst 70	Prepared: 03/28/18 09:55 5.0	mg/l	1	Analyst: mnq 03/30/18 20:03	
Method: EPA 420.4 Phenolics	Batch ID: W8C1573 Instr: AA03 0.079	Prepared: 03/26/18 18:04 0.010	mg/l	1	Analyst: YMT 03/29/18 17:23	
Method: SM 2320B Alkalinity as CaCO3	Batch ID: W8C1477 Instr: AA02 22	Prepared: 03/25/18 10:28 2.0	mg/l	1	Analyst: stg 03/25/18 13:06	
Method: SM 2510B Specific Conductance (EC)	Batch ID: W8C1609 Instr: AA02 51	Prepared: 03/27/18 10:24 2.0	umhos/cm	1	Analyst: stg 03/27/18 13:15	
Method: SM 2540C Total Dissolved Solids	Batch ID: W8C1494 Instr: Inst 40	Prepared: 03/26/18 08:14 10	mg/l	1	Analyst: ymt 03/26/18 17:57	
Method: SM 2540D Total Suspended Solids	Batch ID: W8C1498 Instr: Inst 110	Prepared: 03/26/18 08:51 5	mg/l	1	Analyst: mic 03/26/18 20:00	
Method: SM 4500O-G Dissolved Oxygen	Batch ID: W8C1273 Instr: Inst 9.19	Prepared: 03/21/18 19:18 1.00	mg/l	1	Analyst: mic 03/21/18 19:40	*
Method: SM 5210B Biochemical Oxygen Demand	Batch ID: W8C1377 Instr: Inst 11	Prepared: 03/23/18 09:00 2.0	mg/l	1	Analyst: mic 03/28/18 14:10	
Method: SM 5310B Total Organic Carbon (TOC)	Batch ID: W8C1690 Instr: TOC02 8.5	Prepared: 03/28/18 09:45 0.10	mg/l	1	Analyst: jlp 03/28/18 15:00	
Method: SM 5540C MBAS	Batch ID: W8C1332 Instr: UVVIS03 0.33	Prepared: 03/22/18 13:12 0.050	mg/l	1	Analyst: ymt 03/22/18 20:17	
Hydrocarbons by GC/FID						
Method: EPA 8015D Diesel Range Organics	Batch ID: W8C1291 Instr: GC04 1.6	Prepared: 03/22/18 09:11 0.10	mg/l	1	Analyst: cam 03/28/18 00:34	
Oil Range Organics	3.2	0.50	mg/l	1	03/28/18 00:34	
Surrogate(s)						
n-Tetracosane	115% Conc: 0.286	64-155			03/28/18 00:34	
Metals by EPA 200 Series Methods						
Method: EPA 200.7 Calcium Hardness as CaCO3	Batch ID: [CALC] Instr: [CALC] 15.4	Prepared: 03/30/18 09:02 0.250	mg/l	1	Analyst: JCK 04/02/18 14:35	
Method: EPA 200.7 Calcium, Total	Batch ID: W8C1841 Instr: ICP03 6.18	Prepared: 03/30/18 09:02 0.100	mg/l	1	Analyst: JCK 04/02/18 14:35	
Method: EPA 200.8 Aluminum, Dissolved	Batch ID: W8C1842 Instr: ICPMS02 26	Prepared: 03/30/18 09:16 5.0	ug/l	1	Analyst: MTT 04/06/18 00:56	
Aluminum, Total	2600	5.0	ug/l	1	04/06/18 01:04	
Antimony, Dissolved	1.5	0.50	ug/l	1	04/06/18 00:56	
Antimony, Total	4.8	0.50	ug/l	1	04/06/18 01:04	
Arsenic, Dissolved	0.54	0.40	ug/l	1	04/06/18 00:56	



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FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

Reported:

04/27/2018 15:05

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Sample Results

(Continued)

Sample: Outfall #5 (RH)

Sampled: 03/21/18 13:55 by ES/MT

8C21103-03 (Water)

(Continued)

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

Method: EPA 200.8	Batch ID: W8C1842	Instr: ICPMS02	Prepared: 03/30/18 09:16			Analyst: MTT
Arsenic, Total	1.6	0.40	ug/l	1	04/06/18 01:04	
Cadmium, Dissolved	ND	0.10	ug/l	1	04/06/18 00:56	
Cadmium, Total	0.27	0.10	ug/l	1	04/06/18 01:04	
Chromium, Dissolved	1.1	0.20	ug/l	1	04/06/18 00:56	
Chromium, Total	6.7	0.20	ug/l	1	04/06/18 01:04	
Copper, Dissolved	12	0.50	ug/l	1	04/06/18 00:56	
Copper, Total	49	0.50	ug/l	1	04/06/18 01:04	
Iron, Dissolved	35	20	ug/l	1	04/06/18 00:56	
Iron, Total	3600	20	ug/l	1	04/06/18 01:04	
Lead, Dissolved	0.47	0.20	ug/l	1	04/06/18 00:56	
Lead, Total	20	0.20	ug/l	1	04/06/18 01:04	
Nickel, Dissolved	1.2	0.80	ug/l	1	04/06/18 00:56	
Nickel, Total	5.5	0.80	ug/l	1	04/06/18 01:04	
Zinc, Dissolved	48	5.0	ug/l	1	04/06/18 00:56	
Zinc, Total	230	5.0	ug/l	1	04/06/18 01:04	

Microbiological Parameters by Standard Methods

Method: Enterolert	Batch ID: W8D1609	Instr: Inst	Prepared: 03/21/18 16:39	Analyst: slh
Enterococcus		13000	10 MPN/100ml	10 03/22/18 18:02
Method: SM 9221B	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh
Total Coliform		160000	18 MPN/100ml	10 04/23/18 14:20
Method: SM 9221E	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh
Fecal Coliform		35000	18 MPN/100ml	10 04/22/18 12:30
Method: SM 9221F	Batch ID: W8D1611	Instr: Inst	Prepared: 03/21/18 15:43	Analyst: slh
E. coli		17000	18 MPN/100ml	10 04/22/18 12:30

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

Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC		
Acenaphthene		ND	5.0	ng/l	1	03/30/18 20:42
Acenaphthylene		ND	5.0	ng/l	1	03/30/18 20:42
Anthracene		ND	5.0	ng/l	1	03/30/18 20:42
Benzo (a) anthracene		ND	5.0	ng/l	1	03/30/18 20:42
Benzo (a) pyrene		ND	5.0	ng/l	1	03/30/18 20:42
Benzo (b) fluoranthene		ND	5.0	ng/l	1	03/30/18 20:42
Benzo (g,h,i) perylene		ND	5.0	ng/l	1	03/30/18 20:42
Benzo (k) fluoranthene		ND	5.0	ng/l	1	03/30/18 20:42
Chrysene		ND	5.0	ng/l	1	03/30/18 20:42
Dibenzo (a,h) anthracene		ND	5.0	ng/l	1	03/30/18 20:42

8C21103

Page 13 of 32



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Certificate of Analysis

FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

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Sample Results

(Continued)

Sample: Outfall #5 (RH) Sampled: 03/21/18 13:55 by ES/MT
8C21103-03 (Water) (Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS (Continued)						
Method: EPA 625.1	Batch ID: W8C1685	Instr: GCMS15	Prepared: 03/28/18 08:28	Analyst: EFC		
Fluoranthene	8.7	5.0	ng/l	1	03/30/18 20:42	
Fluorene	ND	5.0	ng/l	1	03/30/18 20:42	
Indeno (1,2,3-cd) pyrene	ND	5.0	ng/l	1	03/30/18 20:42	
Naphthalene	26	5.0	ng/l	1	03/30/18 20:42	
Phenanthrene	13	5.0	ng/l	1	03/30/18 20:42	
Pyrene	9.2	5.0	ng/l	1	03/30/18 20:42	
<i>Surrogate(s)</i>						
1,3-Dimethyl-2-nitrobenzene	99% Conc: 98.7	50-150			03/30/18 20:42	
Perylene-d12	65% Conc: 65.2	50-150			03/30/18 20:42	

Sample: Outfall #5 (RH) Sampled: 03/21/18 13:55 by ES/MT
8C21103-03RE2 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6	Batch ID: W8C1788	Instr: LC13	Prepared: 03/29/18 10:04	Analyst: dil		
Chromium 6+	1.0	0.020	ug/l	1	03/29/18 12:38	
Chromium 6+, Dissolved	1.0	0.020	ug/l	1	03/29/18 12:50	



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Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1300 - EPA 300.0										
Blank (W8C1300-BLK1)				Prepared & Analyzed: 03/22/18						
Chloride, Total	ND	0.50	mg/l							
NO2+NO3 as N	ND	0.11	mg/l							B-07
Sulfate as SO4	ND	0.50	mg/l							
LCS (W8C1300-BS1)				Prepared & Analyzed: 03/22/18						
Chloride, Total	9.97	0.50	mg/l	10.0		100	90-110			
NO2+NO3 as N	3.96	0.11	mg/l	4.04		98	90-110			
Sulfate as SO4	10.4	0.50	mg/l	10.0		103	90-110			
Matrix Spike (W8C1300-MS1)				Source: 8C21103-01 Prepared & Analyzed: 03/22/18						
Chloride, Total	128	5.0	mg/l	100	24.8	103	76-118			
NO2+NO3 as N	44.5	1.1	mg/l	40.4	3.72	101	84-115			
Sulfate as SO4	133	5.0	mg/l	100	23.2	109	78-111			
Matrix Spike (W8C1300-MS2)				Source: 8C21103-02 Prepared & Analyzed: 03/22/18						
Chloride, Total	103	5.0	mg/l	100	1.93	101	76-118			
NO2+NO3 as N	40.8	1.1	mg/l	40.4	0.610	99	84-115			
Sulfate as SO4	109	5.0	mg/l	100	2.89	105	78-111			
Matrix Spike Dup (W8C1300-MSD1)				Source: 8C21103-01 Prepared & Analyzed: 03/22/18						
Chloride, Total	127	5.0	mg/l	100	24.8	103	76-118	0.6	20	
NO2+NO3 as N	44.3	1.1	mg/l	40.4	3.72	100	84-115	0.4	20	
Sulfate as SO4	132	5.0	mg/l	100	23.2	108	78-111	1	20	
Matrix Spike Dup (W8C1300-MSD2)				Source: 8C21103-02 Prepared & Analyzed: 03/22/18						
Chloride, Total	103	5.0	mg/l	100	1.93	101	76-118	0.3	20	
NO2+NO3 as N	40.6	1.1	mg/l	40.4	0.610	99	84-115	0.4	20	
Sulfate as SO4	108	5.0	mg/l	100	2.89	105	78-111	0.5	20	



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Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1378 - EPA 515.3										
Blank (W8C1378-BLK1)				Prepared: 03/23/18 Analyzed: 03/26/18						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
<i>Surrogate(s)</i>										
2,4-DCAA		11.3	ug/l	10.0		113	70-130			
LCS (W8C1378-BS1)				Prepared: 03/23/18 Analyzed: 03/26/18						
2,4,5-T	4.22	0.20	ug/l	4.00		105	70-130			
2,4,5-TP (Silvex)	4.48	0.20	ug/l	4.00		112	70-130			
2,4-D	10.0	0.40	ug/l	8.00		125	70-130			
2,4-DB	19.2	2.0	ug/l	16.0		120	70-130			
3,5-Dichlorobenzoic acid	10.1	1.0	ug/l	8.00		126	70-130			
Acifluorfen	4.76	0.40	ug/l	4.00		119	70-130			
Bentazon	19.0	2.0	ug/l	16.0		119	70-130			
Dalapon	8.76	0.40	ug/l	8.00		109	70-130			
DCPA	4.78	0.10	ug/l	4.00		120	70-130			
Dicamba	9.17	0.60	ug/l	8.00		115	70-130			
Dichloroprop	9.91	0.30	ug/l	8.00		124	70-130			
Dinoseb	4.52	0.40	ug/l	4.00		113	70-130			
Pentachlorophenol	4.31	0.20	ug/l	4.00		108	70-130			
Picloram	4.70	0.60	ug/l	4.00		118	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		12.7	ug/l	10.0		127	70-130			
Matrix Spike (W8C1378-MS1)				Source: 8C21052-01 Prepared: 03/23/18 Analyzed: 03/26/18						
2,4,5-T	4.00	0.20	ug/l	4.00	ND	100	70-130			
2,4,5-TP (Silvex)	4.10	0.20	ug/l	4.00	ND	102	70-130			
2,4-D	9.05	0.40	ug/l	8.00	ND	113	70-130			



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Project Number: MS4 - Storm Water Monitoring 2017-2018

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Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1378 - EPA 515.3 (Continued)										
Matrix Spike (W8C1378-MS1)			Source: 8C21052-01		Prepared: 03/23/18 Analyzed: 03/26/18					
2,4-DB	16.6	2.0	ug/l	16.0	ND	104	70-130			
3,5-Dichlorobenzoic acid	9.32	1.0	ug/l	8.00	ND	116	70-130			
Acifluorfen	4.22	0.40	ug/l	4.00	ND	106	70-130			
Bentazon	17.2	2.0	ug/l	16.0	ND	108	70-130			
Dalapon	7.80	0.40	ug/l	8.00	ND	97	70-130			
DCPA	4.32	0.10	ug/l	4.00	ND	108	70-130			
Dicamba	8.35	0.60	ug/l	8.00	ND	104	70-130			
Dichloroprop	8.76	0.30	ug/l	8.00	ND	110	70-130			
Dinoseb	4.22	0.40	ug/l	4.00	ND	106	70-130			
Pentachlorophenol	3.80	0.20	ug/l	4.00	ND	95	70-130			
Picloram	4.30	0.60	ug/l	4.00	ND	108	70-130			
<i>Surrogate(s)</i>										
2,4-DCAA		11.3	ug/l	10.0		113	70-130			
Matrix Spike Dup (W8C1378-MSD1)			Source: 8C21052-01		Prepared: 03/23/18 Analyzed: 03/26/18					
2,4,5-T	3.68	0.20	ug/l	4.00	ND	92	70-130	8	30	
2,4,5-TP (Silvex)	4.07	0.20	ug/l	4.00	ND	102	70-130	0.7	30	
2,4-D	8.38	0.40	ug/l	8.00	ND	105	70-130	8	30	
2,4-DB	14.7	2.0	ug/l	16.0	ND	92	70-130	12	30	
3,5-Dichlorobenzoic acid	8.86	1.0	ug/l	8.00	ND	111	70-130	5	30	
Acifluorfen	4.12	0.40	ug/l	4.00	ND	103	70-130	2	30	
Bentazon	16.1	2.0	ug/l	16.0	ND	101	70-130	7	30	
Dalapon	7.30	0.40	ug/l	8.00	ND	91	70-130	7	30	
DCPA	4.06	0.10	ug/l	4.00	ND	101	70-130	6	30	
Dicamba	7.85	0.60	ug/l	8.00	ND	98	70-130	6	30	
Dichloroprop	8.26	0.30	ug/l	8.00	ND	103	70-130	6	30	
Dinoseb	4.02	0.40	ug/l	4.00	ND	101	70-130	5	30	
Pentachlorophenol	3.49	0.20	ug/l	4.00	ND	87	70-130	8	30	
Picloram	3.92	0.60	ug/l	4.00	ND	98	70-130	9	30	
<i>Surrogate(s)</i>										
2,4-DCAA		11.0	ug/l	10.0		110	70-130			



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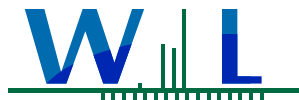
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1266 - EPA 180.1										
Blank (W8C1266-BLK1)				Prepared & Analyzed: 03/21/18						
Turbidity	ND	0.10	NTU							
LCS (W8C1266-BS1)				Prepared & Analyzed: 03/21/18						
Turbidity	6.70	0.10	NTU	6.99		96	90-110			
Duplicate (W8C1266-DUP1)				Source: 8C21054-02 Prepared & Analyzed: 03/21/18						
Turbidity	0.0400	0.10	NTU		0.0400			0	10	
MRL Check (W8C1266-MRL1)				Prepared & Analyzed: 03/21/18						
Turbidity	6.70	0.10	NTU	6.99		96	0-200			
MRL Check (W8C1266-MRL2)				Prepared & Analyzed: 03/21/18						
Turbidity	6.78	0.10	NTU	6.99		97	0-200			
MRL Check (W8C1266-MRL3)				Prepared & Analyzed: 03/21/18						
Turbidity	6.85	0.10	NTU	6.99		98	0-200			
MRL Check (W8C1266-MRL4)				Prepared & Analyzed: 03/21/18						
Turbidity	6.83	0.10	NTU	6.99		98	0-200			
Batch: W8C1295 - SM 5210B										
Blank (W8C1295-BLK1)				Prepared: 03/22/18 Analyzed: 03/27/18						
Biochemical Oxygen Demand	ND	2.0	mg/l							
Blank (W8C1295-BLK2)				Prepared: 03/22/18 Analyzed: 03/27/18						
Biochemical Oxygen Demand	ND	2.0	mg/l							
LCS (W8C1295-BS1)				Prepared: 03/22/18 Analyzed: 03/27/18						
Biochemical Oxygen Demand	193	2.0	mg/l	198		97	85-115			
Duplicate (W8C1295-DUP1)				Source: 8C21072-01 Prepared: 03/22/18 Analyzed: 03/27/18						
Biochemical Oxygen Demand	2.12	2.0	mg/l		2.15			1	20	
Batch: W8C1332 - SM 5540C										
Blank (W8C1332-BLK1)				Prepared & Analyzed: 03/22/18						
MBAS	ND	0.050	mg/l							
LCS (W8C1332-BS1)				Prepared & Analyzed: 03/22/18						
MBAS	0.200	0.050	mg/l	0.200		100	82-115			
Matrix Spike (W8C1332-MS1)				Source: 8C22094-01 Prepared & Analyzed: 03/22/18						
MBAS	0.202	0.050	mg/l	0.200	ND	101	74-123			
Matrix Spike Dup (W8C1332-MSD1)				Source: 8C22094-01 Prepared & Analyzed: 03/22/18						
MBAS	0.206	0.050	mg/l	0.200	ND	103	74-123	2	20	
Batch: W8C1377 - SM 5210B										
Blank (W8C1377-BLK1)				Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	ND	2.0	mg/l							
Blank (W8C1377-BLK2)				Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	ND	2.0	mg/l							

8C21103

Page 18 of 32



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Project Number: MS4 - Storm Water Monitoring 2017-2018

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Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1377 - SM 5210B (Continued)										
LCS (W8C1377-BS1)				Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	182	2.0	mg/l	198		92	85-115			
Duplicate (W8C1377-DUP1)				Source: 8C22094-01 Prepared: 03/23/18 Analyzed: 03/28/18						
Biochemical Oxygen Demand	ND	2.0	mg/l		ND				20	
Batch: W8C1477 - SM 2320B										
Blank (W8C1477-BLK1)				Prepared & Analyzed: 03/25/18						
Alkalinity as CaCO3	ND	2.0	mg/l							
LCS (W8C1477-BS1)				Prepared & Analyzed: 03/25/18						
Alkalinity as CaCO3	247	2.0	mg/l	250		99	94-108			
Duplicate (W8C1477-DUP1)				Source: 8C21103-02 Prepared & Analyzed: 03/25/18						
Alkalinity as CaCO3	22.8	2.0	mg/l		24.5			7	15	
Batch: W8C1494 - SM 2540C										
Blank (W8C1494-BLK1)				Prepared & Analyzed: 03/26/18						
Total Dissolved Solids	ND	10	mg/l							
LCS (W8C1494-BS1)				Prepared & Analyzed: 03/26/18						
Total Dissolved Solids	804	10	mg/l	824		98	96-102			
Duplicate (W8C1494-DUP1)				Source: 8C20012-01 Prepared & Analyzed: 03/26/18						
Total Dissolved Solids	472	10	mg/l		438			7	10	
Duplicate (W8C1494-DUP2)				Source: 8C21077-01 Prepared & Analyzed: 03/26/18						
Total Dissolved Solids	1750	10	mg/l		1690			3	10	
Batch: W8C1497 - EPA 160.4										
Blank (W8C1497-BLK1)				Prepared & Analyzed: 03/26/18						
Volatile Suspended Solids	ND	5.0	mg/l							
LCS (W8C1497-BS1)				Prepared & Analyzed: 03/26/18						
Volatile Suspended Solids	42	5.0	mg/l	40.1		105	90-110			
Duplicate (W8C1497-DUP1)				Source: 8C21048-01 Prepared & Analyzed: 03/26/18						
Volatile Suspended Solids	430	5.0	mg/l		440			3	15	
Duplicate (W8C1497-DUP2)				Source: 8C21097-08 Prepared & Analyzed: 03/26/18						
Volatile Suspended Solids	ND	5.0	mg/l		ND				15	
Batch: W8C1498 - SM 2540D										
Blank (W8C1498-BLK1)				Prepared & Analyzed: 03/26/18						
Total Suspended Solids	ND	5	mg/l							
LCS (W8C1498-BS1)				Prepared & Analyzed: 03/26/18						
Total Suspended Solids	59.0	5	mg/l	56.4		105	90-110			
Duplicate (W8C1498-DUP1)				Source: 8C21048-01 Prepared & Analyzed: 03/26/18						
Total Suspended Solids	1170	5	mg/l		1140			3	20	
Duplicate (W8C1498-DUP2)				Source: 8C21097-08 Prepared & Analyzed: 03/26/18						

8C21103

Page 19 of 32



WECK LABORATORIES, INC.

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2740 W. Magnolia Blvd., Ste.102
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Project Number: MS4 - Storm Water Monitoring 2017-2018

Project Manager: Edmond G. Suher

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Quality Control Results

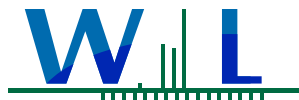
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1498 - SM 2540D (Continued)										
Duplicate (W8C1498-DUP2)	Source: 8C21097-08			Prepared & Analyzed: 03/26/18						
Total Suspended Solids	22.0	5	mg/l		22.0			0	20	
Batch: W8C1539 - EPA 365.1										
Blank (W8C1539-BLK1)	Source: 8C21103-01			Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	ND	0.010	mg/l							
LCS (W8C1539-BS1)	Source: 8C21103-01			Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	0.0527	0.010	mg/l	0.0500		105	90-110			
Matrix Spike (W8C1539-MS1)	Source: 8C21103-01			Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	0.472	0.040	mg/l	0.200	0.352	60	90-110			MS-02
Matrix Spike (W8C1539-MS2)	Source: 8C22030-01			Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	0.336	0.040	mg/l	0.200	0.214	61	90-110			MS-02
Matrix Spike Dup (W8C1539-MSD1)	Source: 8C21103-01			Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	0.492	0.040	mg/l	0.200	0.352	70	90-110	4	20	MS-02
Matrix Spike Dup (W8C1539-MSD2)	Source: 8C22030-01			Prepared: 03/26/18 Analyzed: 03/30/18						
Phosphorus as P, Total	0.348	0.040	mg/l	0.200	0.214	67	90-110	3	20	MS-02
Batch: W8C1573 - EPA 420.4										
Blank (W8C1573-BLK1)	Source: 8C21103-01			Prepared: 03/26/18 Analyzed: 03/29/18						
Phenolics	ND	0.010	mg/l							
LCS (W8C1573-BS1)	Source: 8C21103-01			Prepared: 03/26/18 Analyzed: 03/29/18						
Phenolics	0.104	0.010	mg/l	0.100		104	90-110			
Matrix Spike (W8C1573-MS1)	Source: 8C22094-01			Prepared: 03/26/18 Analyzed: 03/29/18						
Phenolics	0.265	0.010	mg/l	0.250	0.00467	104	90-110			
Matrix Spike Dup (W8C1573-MSD1)	Source: 8C22094-01			Prepared: 03/26/18 Analyzed: 03/29/18						
Phenolics	0.253	0.010	mg/l	0.250	0.00467	99	90-110	5	20	
Batch: W8C1609 - SM 2510B										
Blank (W8C1609-BLK1)	Source: 8C21098-01			Prepared & Analyzed: 03/27/18						
Specific Conductance (EC)	ND	2.0	umhos/cm							
LCS (W8C1609-BS1)	Source: 8C21098-01			Prepared & Analyzed: 03/27/18						
Specific Conductance (EC)	194	2.0	umhos/cm	200		97	95-105			
Duplicate (W8C1609-DUP1)	Source: 8C21098-01			Prepared & Analyzed: 03/27/18						
Specific Conductance (EC)	43.3	2.0	umhos/cm		41.6			4	5	
Batch: W8C1690 - SM 5310B										
Blank (W8C1690-BLK1)	Source: 8C21103-02			Prepared & Analyzed: 03/28/18						
Total Organic Carbon (TOC)	ND	0.10	mg/l							
LCS (W8C1690-BS1)	Source: 8C21103-02			Prepared & Analyzed: 03/28/18						
Total Organic Carbon (TOC)	0.989	0.10	mg/l	1.00		99	85-115			
Matrix Spike (W8C1690-MS1)	Source: 8C21103-02			Prepared & Analyzed: 03/28/18						

8C21103

Page 20 of 32



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FINAL REPORT

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2740 W. Magnolia Blvd., Ste.102
Burbank, CA 91505

Project Number: MS4 - Storm Water Monitoring 2017-2018

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Quality Control Results

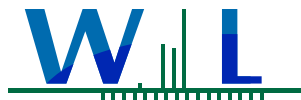
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1690 - SM 5310B (Continued)										
Matrix Spike (W8C1690-MS1)	Source: 8C21103-02			Prepared & Analyzed: 03/28/18						
Total Organic Carbon (TOC)	16.6	0.10	mg/l	5.00	11.8	95	76-115			
Matrix Spike Dup (W8C1690-MSD1)	Source: 8C21103-02			Prepared & Analyzed: 03/28/18						
Total Organic Carbon (TOC)	16.5	0.10	mg/l	5.00	11.8	94	76-115	0.5	20	
Batch: W8C1693 - EPA 410.4										
Blank (W8C1693-BLK1)	Prepared: 03/28/18 Analyzed: 03/30/18									
Chemical Oxygen Demand	ND	5.0	mg/l							
LCS (W8C1693-BS1)	Prepared: 03/28/18 Analyzed: 03/30/18									
Chemical Oxygen Demand	107	5.0	mg/l	100		107	90-110			
Duplicate (W8C1693-DUP1)	Source: 8C21062-01			Prepared: 03/28/18 Analyzed: 03/30/18						
Chemical Oxygen Demand	1640	10	mg/l		1630			0.7	15	
Matrix Spike (W8C1693-MS1)	Source: 8C21067-01			Prepared: 03/28/18 Analyzed: 03/30/18						
Chemical Oxygen Demand	205	20	mg/l	200	ND	103	90-110			
Matrix Spike (W8C1693-MS2)	Source: 8C21067-03			Prepared: 03/28/18 Analyzed: 03/30/18						
Chemical Oxygen Demand	202	20	mg/l	200	ND	101	90-110			
Matrix Spike Dup (W8C1693-MSD1)	Source: 8C21067-01			Prepared: 03/28/18 Analyzed: 03/30/18						
Chemical Oxygen Demand	199	20	mg/l	200	ND	99	90-110	3	15	
Matrix Spike Dup (W8C1693-MSD2)	Source: 8C21067-03			Prepared: 03/28/18 Analyzed: 03/30/18						
Chemical Oxygen Demand	191	20	mg/l	200	ND	95	90-110	6	15	
Batch: W8C1695 - EPA 350.1										
Blank (W8C1695-BLK1)	Prepared: 03/28/18 Analyzed: 03/29/18									
Ammonia as N	ND	0.10	mg/l							
Blank (W8C1695-BLK2)	Prepared: 03/28/18 Analyzed: 03/29/18									
Ammonia as N	ND	0.10	mg/l							
LCS (W8C1695-BS1)	Prepared: 03/28/18 Analyzed: 03/29/18									
Ammonia as N	0.244	0.10	mg/l	0.250		98	90-110			
LCS (W8C1695-BS2)	Prepared: 03/28/18 Analyzed: 03/29/18									
Ammonia as N	0.246	0.10	mg/l	0.250		98	90-110			
Matrix Spike (W8C1695-MS1)	Source: 8C26027-03			Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	0.266	0.10	mg/l	0.250	ND	106	90-110			
Matrix Spike (W8C1695-MS2)	Source: 8C26027-04			Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	0.938	0.10	mg/l	0.250	0.713	90	90-110			
Matrix Spike Dup (W8C1695-MSD1)	Source: 8C26027-03			Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	0.266	0.10	mg/l	0.250	ND	106	90-110	0.05	15	
Matrix Spike Dup (W8C1695-MSD2)	Source: 8C26027-04			Prepared: 03/28/18 Analyzed: 03/29/18						
Ammonia as N	0.953	0.10	mg/l	0.250	0.713	96	90-110	2	15	
Batch: W8C1705 - EPA 365.3										

8C21103

Page 21 of 32



WECK LABORATORIES, INC.

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Certificate of Analysis

FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

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Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1705 - EPA 365.3 (Continued)										
Blank (W8C1705-BLK1)				Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W8C1705-BS1)				Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	0.208	0.010	mg/l	0.200		104	90-110			
Matrix Spike (W8C1705-MS1)				Source: 8C21097-02 Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	0.224	0.010	mg/l	0.200	0.0250	100	90-110			
Matrix Spike Dup (W8C1705-MSD1)				Source: 8C21097-02 Prepared: 03/28/18 Analyzed: 04/02/18						
Phosphorus, Dissolved	0.225	0.010	mg/l	0.200	0.0250	100	90-110	0.4	20	
Batch: W8C1763 - EPA 351.2										
Blank (W8C1763-BLK1)				Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	ND	0.10	mg/l							
Blank (W8C1763-BLK2)				Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	ND	0.10	mg/l							
LCS (W8C1763-BS1)				Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	1.03	0.10	mg/l	1.00		103	90-110			
LCS (W8C1763-BS2)				Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	1.02	0.10	mg/l	1.00		102	90-110			
Matrix Spike (W8C1763-MS1)				Source: 8C21099-04 Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	1.21	0.10	mg/l	1.00	0.276	93	90-110			
Matrix Spike (W8C1763-MS2)				Source: 8C21099-05 Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	1.35	0.10	mg/l	1.00	0.340	101	90-110			
Matrix Spike Dup (W8C1763-MSD1)				Source: 8C21099-04 Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	1.24	0.10	mg/l	1.00	0.276	96	90-110	2	10	
Matrix Spike Dup (W8C1763-MSD2)				Source: 8C21099-05 Prepared: 03/28/18 Analyzed: 04/02/18						
TKN	1.32	0.10	mg/l	1.00	0.340	98	90-110	2	10	
Batch: W8C1846 - EPA 335.4										
Blank (W8C1846-BLK1)				Prepared & Analyzed: 03/30/18						
Cyanide, Total	ND	5.0	ug/l							
LCS (W8C1846-BS1)				Prepared & Analyzed: 03/30/18						
Cyanide, Total	50.0	5.0	ug/l	50.0		100	90-110			
Matrix Spike (W8C1846-MS1)				Source: 8C21072-01 Prepared & Analyzed: 03/30/18						
Cyanide, Total	100	5.0	ug/l	100	ND	100	90-110			
Matrix Spike Dup (W8C1846-MSD1)				Source: 8C21072-01 Prepared & Analyzed: 03/30/18						
Cyanide, Total	98.5	5.0	ug/l	100	ND	98	90-110	2	20	



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Project Number: MS4 - Storm Water Monitoring 2017-2018

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Quality Control Results

(Continued)

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1421 - EPA 218.6										
Blank (W8C1421-BLK1)				Prepared & Analyzed: 03/23/18						
Chromium 6+	ND	0.020	ug/l							
Chromium 6+, Dissolved	ND	0.020	ug/l							
LCS (W8C1421-BS1)				Prepared & Analyzed: 03/23/18						
Chromium 6+	5.15	0.020	ug/l	5.00		103	90-110			
Chromium 6+, Dissolved	5.15	0.020	ug/l	5.00		103	90-110			
Matrix Spike (W8C1421-MS1)				Source: 8C21103-01 Prepared & Analyzed: 03/23/18						
Chromium 6+	25.2	0.10	ug/l	25.0	1.08	97	88-112			
Chromium 6+, Dissolved	25.2	0.10	ug/l	25.0	0.530	99	88-112			
Matrix Spike (W8C1421-MS2)				Source: 8C21103-02 Prepared & Analyzed: 03/23/18						
Chromium 6+	25.2	0.10	ug/l	25.0	0.216	100	88-112			
Chromium 6+, Dissolved	25.2	0.10	ug/l	25.0	0.274	100	88-112			
Matrix Spike Dup (W8C1421-MSD1)				Source: 8C21103-01 Prepared & Analyzed: 03/23/18						
Chromium 6+	25.3	0.10	ug/l	25.0	1.08	97	88-112	0.2	10	
Chromium 6+, Dissolved	25.3	0.10	ug/l	25.0	0.530	99	88-112	0.2	10	
Matrix Spike Dup (W8C1421-MSD2)				Source: 8C21103-02 Prepared & Analyzed: 03/23/18						
Chromium 6+	24.9	0.10	ug/l	25.0	0.216	99	88-112	1	10	
Chromium 6+, Dissolved	24.9	0.10	ug/l	25.0	0.274	98	88-112	1	10	
Batch: W8C1788 - EPA 218.6										
Blank (W8C1788-BLK1)				Prepared & Analyzed: 03/29/18						
Chromium 6+	ND	0.020	ug/l							
Chromium 6+, Dissolved	ND	0.020	ug/l							
LCS (W8C1788-BS1)				Prepared & Analyzed: 03/29/18						
Chromium 6+	5.06	0.020	ug/l	5.00		101	90-110			
Chromium 6+, Dissolved	5.06	0.020	ug/l	5.00		101	90-110			
Matrix Spike (W8C1788-MS1)				Source: 8C22099-01 Prepared & Analyzed: 03/29/18						
Chromium 6+	26.4	0.10	ug/l	25.0	0.414	104	88-112			
Chromium 6+, Dissolved	26.4	0.10	ug/l	25.0	0.441	104	88-112			
Matrix Spike Dup (W8C1788-MSD1)				Source: 8C22099-01 Prepared & Analyzed: 03/29/18						
Chromium 6+	26.2	0.10	ug/l	25.0	0.414	103	88-112	0.6	10	
Chromium 6+, Dissolved	26.2	0.10	ug/l	25.0	0.441	103	88-112	0.6	10	



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Project Number: MS4 - Storm Water Monitoring 2017-2018

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Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

Hydrocarbons by GC/FID

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1291 - EPA 8015D										
Blank (W8C1291-BLK1)				Prepared: 03/22/18 Analyzed: 03/27/18						
Diesel Range Organics	ND	0.10	mg/l							
Oil Range Organics	ND	0.50	mg/l							
<i>Surrogate(s)</i>										
<i>n-Tetracosane</i>		0.254	mg/l	0.250		102	64-155			
LCS (W8C1291-BS1)				Prepared: 03/22/18 Analyzed: 03/27/18						
Diesel Range Organics	0.444	0.10	mg/l	0.500		89	56-136			
<i>Surrogate(s)</i>										
<i>n-Tetracosane</i>		0.258	mg/l	0.250		103	64-155			
LCS Dup (W8C1291-BSD1)				Prepared: 03/22/18 Analyzed: 03/27/18						
Diesel Range Organics	0.446	0.10	mg/l	0.500		89	56-136	0.4	25	
<i>Surrogate(s)</i>										
<i>n-Tetracosane</i>		0.254	mg/l	0.250		102	64-155			



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FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

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Quality Control Results

(Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1841 - EPA 200.7										
Blank (W8C1841-BLK1)				Prepared: 03/30/18 Analyzed: 04/02/18						
Calcium, Total	ND	0.100	mg/l							
LCS (W8C1841-BS1)				Prepared: 03/30/18 Analyzed: 04/02/18						
Calcium, Total	45.4	0.100	mg/l	50.0		91	85-115			
Matrix Spike (W8C1841-MS1)				Source: 8C14071-01 Prepared: 03/30/18 Analyzed: 04/02/18						
Calcium, Total	68.8	0.100	mg/l	50.0	9.96	118	70-130			
Matrix Spike (W8C1841-MS2)				Source: 8C21111-03 Prepared: 03/30/18 Analyzed: 04/02/18						
Calcium, Total	88.2	0.100	mg/l	50.0	44.1	88	70-130			
Matrix Spike Dup (W8C1841-MSD1)				Source: 8C14071-01 Prepared: 03/30/18 Analyzed: 04/02/18						
Calcium, Total	70.9	0.100	mg/l	50.0	9.96	122	70-130	3	30	
Matrix Spike Dup (W8C1841-MSD2)				Source: 8C21111-03 Prepared: 03/30/18 Analyzed: 04/02/18						
Calcium, Total	86.9	0.100	mg/l	50.0	44.1	86	70-130	1	30	
Batch: W8C1842 - EPA 200.8										
Blank (W8C1842-BLK1)				Prepared: 03/30/18 Analyzed: 04/05/18						
Aluminum, Dissolved	ND	5.0	ug/l							
Aluminum, Total	ND	5.0	ug/l							
Antimony, Dissolved	ND	0.50	ug/l							
Antimony, Total	ND	0.50	ug/l							
Arsenic, Dissolved	ND	0.40	ug/l							
Arsenic, Total	ND	0.40	ug/l							
Cadmium, Dissolved	ND	0.10	ug/l							
Cadmium, Total	ND	0.10	ug/l							
Chromium, Dissolved	ND	0.20	ug/l							
Chromium, Total	ND	0.20	ug/l							
Copper, Dissolved	ND	0.50	ug/l							
Copper, Total	ND	0.50	ug/l							
Iron, Dissolved	ND	20	ug/l							
Iron, Total	ND	20	ug/l							
Lead, Dissolved	ND	0.20	ug/l							
Lead, Total	ND	0.20	ug/l							
Nickel, Dissolved	ND	0.80	ug/l							
Nickel, Total	ND	0.80	ug/l							
Zinc, Dissolved	ND	5.0	ug/l							
Zinc, Total	ND	5.0	ug/l							
Blank (W8C1842-BLK2)				Prepared: 03/30/18 Analyzed: 04/06/18						
Iron, Total	ND	20	ug/l							
LCS (W8C1842-BS1)				Prepared: 03/30/18 Analyzed: 04/05/18						
Aluminum, Dissolved	50.2	5.0	ug/l	50.0		101	85-115			

8C21103

Page 25 of 32



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Project Number: MS4 - Storm Water Monitoring 2017-2018

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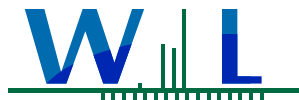
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Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1842 - EPA 200.8 (Continued)										
LCS (W8C1842-BS1)				Prepared: 03/30/18 Analyzed: 04/05/18						
Aluminum, Total	50.2	5.0	ug/l	50.0		101	85-115			
Antimony, Dissolved	47.9	0.50	ug/l	50.0		96	85-115			
Antimony, Total	47.9	0.50	ug/l	50.0		96	85-115			
Arsenic, Dissolved	49.0	0.40	ug/l	50.0		98	85-115			
Arsenic, Total	49.0	0.40	ug/l	50.0		98	85-115			
Cadmium, Dissolved	48.2	0.10	ug/l	50.0		96	85-115			
Cadmium, Total	48.2	0.10	ug/l	50.0		96	85-115			
Chromium, Dissolved	49.2	0.20	ug/l	50.0		98	85-115			
Chromium, Total	49.2	0.20	ug/l	50.0		98	85-115			
Copper, Dissolved	51.1	0.50	ug/l	50.0		102	85-115			
Copper, Total	51.1	0.50	ug/l	50.0		102	85-115			
Iron, Dissolved	1000	20	ug/l	1050		96	85-115			
Iron, Total	1000	20	ug/l	1050		96	85-115			
Lead, Dissolved	49.1	0.20	ug/l	50.0		98	85-115			
Lead, Total	49.1	0.20	ug/l	50.0		98	85-115			
Nickel, Dissolved	49.7	0.80	ug/l	50.0		100	85-115			
Nickel, Total	49.7	0.80	ug/l	50.0		100	85-115			
Zinc, Dissolved	50.7	5.0	ug/l	50.0		101	85-115			
Zinc, Total	50.7	5.0	ug/l	50.0		101	85-115			
LCS (W8C1842-BS2)				Prepared: 03/30/18 Analyzed: 04/06/18						
Iron, Total	1030	20	ug/l	1050		98	85-115			
Matrix Spike (W8C1842-MS1)				Source: 8C21103-02 Prepared: 03/30/18 Analyzed: 04/05/18						
Aluminum, Total	1690	5.0	ug/l	50.0	1530	328	70-130			MS-02
Antimony, Total	48.8	0.50	ug/l	50.0	2.66	92	70-130			
Arsenic, Total	49.7	0.40	ug/l	50.0	1.43	97	70-130			
Cadmium, Total	47.6	0.10	ug/l	50.0	0.140	95	70-130			
Chromium, Total	52.0	0.20	ug/l	50.0	3.56	97	70-130			
Copper, Total	74.7	0.50	ug/l	50.0	24.5	101	70-130			
Iron, Total	3280	20	ug/l	1050	2110	111	70-130			
Lead, Total	58.0	0.20	ug/l	50.0	9.43	97	70-130			
Nickel, Total	52.6	0.80	ug/l	50.0	3.82	98	70-130			
Zinc, Total	170	5.0	ug/l	50.0	117	105	70-130			
Matrix Spike (W8C1842-MS2)				Source: 8C21103-03 Prepared: 03/30/18 Analyzed: 04/06/18						
Aluminum, Total	2630	5.0	ug/l	50.0	2620	18	70-130			MS-02
Antimony, Total	48.5	0.50	ug/l	50.0	4.75	87	70-130			
Arsenic, Total	49.1	0.40	ug/l	50.0	1.55	95	70-130			
Cadmium, Total	47.0	0.10	ug/l	50.0	0.270	93	70-130			

8C21103

Page 26 of 32



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Project Number: MS4 - Storm Water Monitoring 2017-2018

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Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1842 - EPA 200.8 (Continued)										
Matrix Spike (W8C1842-MS2)	Source: 8C21103-03			Prepared: 03/30/18 Analyzed: 04/06/18						
Chromium, Total	54.1	0.20	ug/l	50.0	6.67	95	70-130			
Copper, Total	98.5	0.50	ug/l	50.0	48.6	100	70-130			
Iron, Total	4460	20	ug/l	1050	3610	81	70-130			
Lead, Total	68.0	0.20	ug/l	50.0	20.2	96	70-130			
Nickel, Total	53.2	0.80	ug/l	50.0	5.54	95	70-130			
Zinc, Total	278	5.0	ug/l	50.0	229	98	70-130			
Matrix Spike (W8C1842-MS3)	Source: 8C21103-02			Prepared: 03/30/18 Analyzed: 04/06/18						
Iron, Total	3320	20	ug/l	1050	2110	115	70-130			
Matrix Spike (W8C1842-MS4)	Source: 8C21103-03			Prepared: 03/30/18 Analyzed: 04/06/18						
Iron, Total	4570	20	ug/l	1050	3610	92	70-130			
Matrix Spike Dup (W8C1842-MSD1)	Source: 8C21103-02			Prepared: 03/30/18 Analyzed: 04/05/18						
Aluminum, Total	1550	5.0	ug/l	50.0	1530	40	70-130	9	30	MS-02
Antimony, Total	48.9	0.50	ug/l	50.0	2.66	93	70-130	0.2	30	
Arsenic, Total	49.8	0.40	ug/l	50.0	1.43	97	70-130	0.02	30	
Cadmium, Total	47.7	0.10	ug/l	50.0	0.140	95	70-130	0.2	30	
Chromium, Total	51.3	0.20	ug/l	50.0	3.56	96	70-130	1	30	
Copper, Total	73.1	0.50	ug/l	50.0	24.5	97	70-130	2	30	
Iron, Total	3100	20	ug/l	1050	2110	94	70-130	6	30	
Lead, Total	58.2	0.20	ug/l	50.0	9.43	97	70-130	0.3	30	
Nickel, Total	52.0	0.80	ug/l	50.0	3.82	96	70-130	1	30	
Zinc, Total	164	5.0	ug/l	50.0	117	93	70-130	4	30	
Matrix Spike Dup (W8C1842-MSD2)	Source: 8C21103-03			Prepared: 03/30/18 Analyzed: 04/06/18						
Aluminum, Total	2680	5.0	ug/l	50.0	2620	110	70-130	2	30	
Antimony, Total	49.0	0.50	ug/l	50.0	4.75	89	70-130	1	30	
Arsenic, Total	48.8	0.40	ug/l	50.0	1.55	95	70-130	0.6	30	
Cadmium, Total	47.8	0.10	ug/l	50.0	0.270	95	70-130	2	30	
Chromium, Total	54.0	0.20	ug/l	50.0	6.67	95	70-130	0.2	30	
Copper, Total	96.7	0.50	ug/l	50.0	48.6	96	70-130	2	30	
Iron, Total	4500	20	ug/l	1050	3610	85	70-130	0.8	30	
Lead, Total	69.1	0.20	ug/l	50.0	20.2	98	70-130	2	30	
Nickel, Total	53.4	0.80	ug/l	50.0	5.54	96	70-130	0.3	30	
Zinc, Total	276	5.0	ug/l	50.0	229	95	70-130	0.6	30	
Matrix Spike Dup (W8C1842-MSD3)	Source: 8C21103-02			Prepared: 03/30/18 Analyzed: 04/06/18						
Iron, Total	3150	20	ug/l	1050	2110	99	70-130	5	30	
Matrix Spike Dup (W8C1842-MSD4)	Source: 8C21103-03			Prepared: 03/30/18 Analyzed: 04/06/18						
Iron, Total	4590	20	ug/l	1050	3610	93	70-130	0.4	30	



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Project Number: MS4 - Storm Water Monitoring 2017-2018

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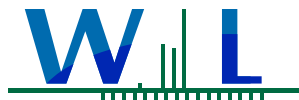
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Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8D1609 - Enterolert										
Blank (W8D1609-BLK1)				Prepared: 03/21/18 Analyzed: 03/22/18						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W8D1609-BLK2)				Prepared: 03/22/18 Analyzed: 03/23/18						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W8D1609-BLK3)				Prepared: 03/22/18 Analyzed: 03/23/18						
Enterococcus	ND	1.0	MPN/100ml							
Batch: W8D1611 - SM 9221F										
Blank (W8D1611-BLK1)				Prepared: 03/21/18 Analyzed: 04/22/18						
E. coli	ND	1.8	MPN/100ml							
Fecal Coliform	ND	1.8	MPN/100ml							
Total Coliform	ND	1.8	MPN/100ml							
Blank (W8D1611-BLK2)				Prepared: 03/22/18 Analyzed: 04/25/18						
E. coli	ND	1.8	MPN/100ml							
Fecal Coliform	ND	1.8	MPN/100ml							
Total Coliform	ND	1.8	MPN/100ml							
Blank (W8D1611-BLK3)				Prepared: 03/22/18 Analyzed: 04/25/18						
E. coli	ND	1.8	MPN/100ml							



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FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

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Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
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Batch: W8C1685 - EPA 625.1

Blank (W8C1685-BLK1)

Prepared: 03/28/18 Analyzed: 03/30/18

1-Methylnaphthalene	ND	5.0	ng/l
1-Methylphenanthrene	ND	5.0	ng/l
2,6-Dimethylnaphthalene	ND	5.0	ng/l
2-Methylnaphthalene	ND	5.0	ng/l
Acenaphthene	ND	5.0	ng/l
Acenaphthylene	ND	5.0	ng/l
Anthracene	ND	5.0	ng/l
Benzo (a) anthracene	ND	5.0	ng/l
Benzo (a) pyrene	ND	5.0	ng/l
Benzo (b) fluoranthene	ND	5.0	ng/l
Benzo (e) pyrene	ND	5.0	ng/l
Benzo (g,h,i) perylene	ND	5.0	ng/l
Benzo (k) fluoranthene	ND	5.0	ng/l
Biphenyl	ND	5.0	ng/l
Chrysene	ND	5.0	ng/l
Dibenzo (a,h) anthracene	ND	5.0	ng/l
Fluoranthene	ND	5.0	ng/l
Fluorene	ND	5.0	ng/l
Indeno (1,2,3-cd) pyrene	ND	5.0	ng/l
Naphthalene	ND	5.0	ng/l
Perylene	ND	5.0	ng/l
Phenanthrene	ND	5.0	ng/l
Pyrene	ND	5.0	ng/l

Surrogate(s)

1,3-Dimethyl-2-nitrobenzene	77.0	ng/l	100	77	50-150
Perylene-d12	77.5	ng/l	100	78	50-150

LCS (W8C1685-BS1)

Prepared: 03/28/18 Analyzed: 04/02/18

Acenaphthene	40.3	5.0	ng/l	50.0	81	50-150
Acenaphthylene	42.2	5.0	ng/l	50.0	84	50-150
Anthracene	40.6	5.0	ng/l	50.0	81	50-150
Benzo (a) anthracene	45.1	5.0	ng/l	50.0	90	50-150
Benzo (a) pyrene	40.3	5.0	ng/l	50.0	81	50-150
Benzo (b) fluoranthene	39.9	5.0	ng/l	50.0	80	50-150
Benzo (g,h,i) perylene	35.5	5.0	ng/l	50.0	71	50-150
Benzo (k) fluoranthene	37.6	5.0	ng/l	50.0	75	50-150
Chrysene	43.4	5.0	ng/l	50.0	87	50-150
Dibenzo (a,h) anthracene	37.2	5.0	ng/l	50.0	74	50-150

8C21103

Page 29 of 32

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

Project Number: MS4 - Storm Water Monitoring 2017-2018

Reported:
04/27/2018 15:05

Project Manager: Edmond G. Suher

Quality Control Results

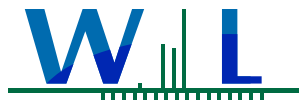
(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8C1685 - EPA 625.1 (Continued)										
LCS (W8C1685-BS1)				Prepared: 03/28/18 Analyzed: 04/02/18						
Fluoranthene	40.4	5.0	ng/l	50.0		81	50-150			
Fluorene	41.0	5.0	ng/l	50.0		82	50-150			
Indeno (1,2,3-cd) pyrene	41.5	5.0	ng/l	50.0		83	50-150			
Naphthalene	41.7	5.0	ng/l	50.0		83	50-150			
Phenanthrene	40.5	5.0	ng/l	50.0		81	50-150			
Pyrene	37.5	5.0	ng/l	50.0		75	50-150			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		88.0	ng/l	100		88	50-150			
Perylene-d12		77.6	ng/l	100		78	50-150			
Matrix Spike (W8C1685-MS1)				Source: 8C21103-01 Prepared: 03/28/18 Analyzed: 03/30/18						
Acenaphthene	209	25	ng/l	250	ND	84	50-150			
Acenaphthylene	213	25	ng/l	250	ND	85	50-150			
Anthracene	210	25	ng/l	250	ND	84	50-150			
Benzo (a) anthracene	201	25	ng/l	250	ND	80	50-150			
Benzo (a) pyrene	148	25	ng/l	250	3.15	58	50-150			
Benzo (b) fluoranthene	153	25	ng/l	250	ND	61	50-150			
Benzo (g,h,i) perylene	108	25	ng/l	250	7.19	40	50-150			MS-05
Benzo (k) fluoranthene	134	25	ng/l	250	ND	54	50-150			
Chrysene	185	25	ng/l	250	8.69	70	50-150			
Dibenzo (a,h) anthracene	129	25	ng/l	250	ND	52	50-150			
Fluoranthene	224	25	ng/l	250	14.0	84	50-150			
Fluorene	215	25	ng/l	250	6.18	83	50-150			
Indeno (1,2,3-cd) pyrene	152	25	ng/l	250	5.55	58	50-150			
Naphthalene	224	25	ng/l	250	17.1	83	50-150			
Phenanthrene	219	25	ng/l	250	23.8	78	50-150			
Pyrene	233	25	ng/l	250	15.4	87	50-150			
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		544	ng/l	500		109	50-150			
Perylene-d12		370	ng/l	500		74	50-150			
Matrix Spike Dup (W8C1685-MSD1)				Source: 8C21103-01 Prepared: 03/28/18 Analyzed: 03/30/18						
Acenaphthene	215	25	ng/l	250	ND	86	50-150	3	30	
Acenaphthylene	225	25	ng/l	250	ND	90	50-150	6	30	
Anthracene	214	25	ng/l	250	ND	86	50-150	2	30	
Benzo (a) anthracene	200	25	ng/l	250	ND	80	50-150	0.9	30	
Benzo (a) pyrene	134	25	ng/l	250	3.15	52	50-150	10	30	
Benzo (b) fluoranthene	147	25	ng/l	250	ND	59	50-150	4	30	
Benzo (g,h,i) perylene	91.9	25	ng/l	250	7.19	34	50-150	16	30	MS-05
Benzo (k) fluoranthene	123	25	ng/l	250	ND	49	50-150	9	30	MS-05

8C21103

Page 30 of 32



WECK LABORATORIES, INC.

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

Certificate of Analysis

FINAL REPORT

Project Number: MS4 - Storm Water Monitoring 2017-2018

Reported:

04/27/2018 15:05

Project Manager: Edmond G. Suher

Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8C1685 - EPA 625.1 (Continued)										
Matrix Spike Dup (W8C1685-MSD1)			Source: 8C21103-01		Prepared: 03/28/18 Analyzed: 03/30/18					
Chrysene	179	25	ng/l	250	8.69	68	50-150	3	30	
Dibenzo (a,h) anthracene	112	25	ng/l	250	ND	45	50-150	15	30	MS-05
Fluoranthene	227	25	ng/l	250	14.0	85	50-150	1	30	
Fluorene	225	25	ng/l	250	6.18	88	50-150	5	30	
Indeno (1,2,3-cd) pyrene	132	25	ng/l	250	5.55	51	50-150	14	30	
Naphthalene	242	25	ng/l	250	17.1	90	50-150	8	30	
Phenanthrene	226	25	ng/l	250	23.8	81	50-150	3	30	
Pyrene	226	25	ng/l	250	15.4	84	50-150	3	30	
<i>Surrogate(s)</i>										
1,3-Dimethyl-2-nitrobenzene		606	ng/l	500		121	50-150			
Perylene-d12		356	ng/l	500		71	50-150			

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

Project Number: MS4 - Storm Water Monitoring 2017-2018

Project Manager: Edmond G. Suher

Reported:
04/27/2018 15:05

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.
B-07	This analyte was found in the method blank at levels above the MDL but below the reporting limit.
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-06	Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation. The MDL and MRL were raised due to this dilution.
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-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.
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.

CHAIN OF CUSTODY RECORD

[illegible]



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

El Monte

Project: MS4 - Storm Water Monitoring 2017-2018

Code	Method	Qty	TAT* (workdays)	Unit Price	Extended Price
Water					
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 - SM 5210B	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
Enterococcus - Enterolert	Enterolert	1	15	\$35.00	\$35.00
EPA 515.3 - Chlorinated Acid Herbicides	EPA 515.3	1	15	\$100.00	\$100.00
EPA 8015B - Diesel & Oil Range Organics (DRO/ORO)	EPA 8015D	1	15	\$45.00	\$45.00
Fecal Coliform by Enumeration SM9221E 3 dilutions	SM 9221E	1	15	\$25.00	\$25.00
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

Bid Project: AEI-CASC Consulting - MS4 - Storm Water Monitoring 2017-2018

Page 1 of 2

Weck Laboratories, Inc. 14859 East Clark Avenue, City of Industry, CA 91745. Phone: (626) 336-2139 Fax: (626) 336-2634

www.wecklabs.com

(over)



Code	Method	Qty	TAT * (workdays)
Phosphorus, Total as P - EPA 365.1	EPA 365.1	1	15
Specific Conductance (EC) - SM 2510B	SM 2510B	1	15
Sulfate - EPA 300.0	EPA 300.0	1	15
Total Coliforms by Enumeration SM9221B 3 dil.	SM 9221B	1	15
Total Dissolved Solids - SM 2540C	SM 2540C	1	15
Total Kjeldahl Nitrogen by EPA 351.2	EPA 351.2	1	15
Total Organic Carbon - SM 5310C	SM 5310C	1	15
Total Suspended Solids - SM2540D	SM 2540D	1	15
Turbidity - EPA 180.1	EPA 180.1	1	15
Volatile Suspended Solids - 160.4	EPA 160.4	1	15
Zinc - EPA 200.8	EPA 200.8	1	15
Zinc, dissolved - EPA 200.8	EPA 200.8	1	15
Additional Items (If requested or applicable, will be charged at listed rates)			
Afterhours - Holiday 10p before-8a after /hr/empl		1	
Afterhours - Rain Event - Standby flat fee		1	
Afterhours - Weekday 10p-8a /hour/employee		1	
Afterhours - Weekday 6p-10p /hour/employee		1	
Afterhours - Weekend 10p Fri-8a Mon /hr/empl		1	
Extra per micro dilution		1	
Filtration Fee		1	

200.7 Hardness consists of:
Calcium - EPA 200.7

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 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.