WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 6K21088

Project: MS4 - Storm Water Monitoring 2015-2016

Attn: Edmond G. Suher

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

Report Date: 12/19/2016
Received Date: 11/21/2016
Turnaround Time: Normal
Phones: (818) 841-9004
Fax: (818) 841-8013
P.O. #:

DoD-ELAP #L15-366 • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO 17025 #L15-365 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A

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 11/21/16 with the Chain-of-Custody document. The samples were received in good condition, at 5.6 °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

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

Project Number: MS4 - Storm Water Monitoring 2015-2016

Project Manager: Edmond G. Suher

Reported: 12/19/2016 15:23

Sample Summary

Sample ID	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Outfall #6 (LL)	ES	6K21088-01	Water	11/21/16 01:00	
Outfall #6 (LL)	ES	6K21088-01RE1	Water	11/21/16 01:00	
LL Hg Field Blank	ES	6K21088-02	Water	11/21/16 00:00	
Outfall #7 (SG)	ES	6K21088-03	Water	11/21/16 02:00	
Outfall #7 (SG)	ES	6K21088-03RE1	Water	11/21/16 02:00	
LL Hg Field Blank	ES	6K21088-04	Water	11/21/16 00:00	
Outfall #5 (RH)	ES	6K21088-05	Water	11/21/16 03:00	
Outfall #5 (RH)	ES	6K21088-05RE1	Water	11/21/16 03:00	
LL Hg Field Blank	ES	6K21088-06	Water	11/21/16 00:00	

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
Enterolert in Water		
Enterococcus		NELAP
GC/MS/MS 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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Reported: 12/19/2016 15:23

Sample Results

Sample: Outfall #6 (LL)
6K21088-01 (Water)

Sampled: 11/21/16 1:00 by ES

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.0						
Method: EPA 300.0	**Batch ID:** W6L1054	**Prepared:** 12/05/16 10:02				**Analyst:** jan
Chloride, Total	**4.0**	0.50	mg/l	1	12/05/16 18:47	
Sulfate as SO4	**9.3**	0.50	mg/l	1	12/05/16 18:47	
Chlorinated Herbicides						
Method: EPA 515.3	**Batch ID:** W6K1220	**Prepared:** 11/22/16 09:09				**Analyst:** rmr
2,4,5-T	ND	0.20	ug/l	1	12/03/16 23:39	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	12/03/16 23:39	
2,4-D	ND	0.40	ug/l	1	12/03/16 23:39	
2,4-DB	ND	2.0	ug/l	1	12/03/16 23:39	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/03/16 23:39	
Acifluorfen	ND	0.40	ug/l	1	12/03/16 23:39	
Bentazon	ND	2.0	ug/l	1	12/03/16 23:39	
Dalapon	ND	0.40	ug/l	1	12/03/16 23:39	
DCPA	ND	0.10	ug/l	1	12/03/16 23:39	
Dicamba	ND	0.60	ug/l	1	12/03/16 23:39	
Dichloroprop	ND	0.30	ug/l	1	12/03/16 23:39	
Dinoseb	ND	0.40	ug/l	1	12/03/16 23:39	
Pentachlorophenol	**0.27**	0.20	ug/l	1	12/03/16 23:39	
Picloram	ND	0.60	ug/l	1	12/03/16 23:39	
Surrogate(s)						
2,4-DCAA	*101%*	*Conc: 10.1*	*70-130*		*12/03/16 23:39*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: EPA 351.2	**Batch ID:** W6K1176	**Prepared:** 11/21/16 15:24				**Analyst:** ymt
TKN	**2.3**	0.10	mg/l	1	11/23/16 13:56	
Method: SM 5540C	**Batch ID:** W6K1179	**Prepared:** 11/21/16 16:11				**Analyst:** nat
MBAS	**0.59**	0.10	mg/l	2	11/21/16 18:38	
Method: SM 4500O-G	**Batch ID:** W6K1202	**Prepared:** 11/21/16 18:31				**Analyst:** mnq
Dissolved Oxygen	**6.56**	1.00	mg/l	1	11/21/16 19:02	*
Method: SM 5210B	**Batch ID:** W6K1239	**Prepared:** 11/22/16 11:37				**Analyst:** mnq
Biochemical Oxygen Demand	**7.7**	2.0	mg/l	1	11/27/16 18:25	
Method: SM 2540D	**Batch ID:** W6K1241	**Prepared:** 11/22/16 11:41				**Analyst:** ajk
Total Suspended Solids	**47**	5	mg/l	1	11/22/16 14:35	
Method: EPA 160.4	**Batch ID:** W6K1242	**Prepared:** 11/22/16 11:38				**Analyst:** ajk
Volatile Suspended Solids	**21**	5.0	mg/l	1	11/22/16 14:35	
Method: EPA 180.1	**Batch ID:** W6K1254	**Prepared:** 11/22/16 13:39				**Analyst:** dmn
Turbidity	**14**	0.10	NTU	1	11/22/16 15:51	
Method: SM 2540C	**Batch ID:** W6K1289	**Prepared:** 11/22/16 16:19				**Analyst:** ymt
Total Dissolved Solids	**65**	10	mg/l	1	11/23/16 13:25	

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Project Number: MS4 - Storm Water Monitoring 2015-2016

Project Manager: Edmond G. Suher

Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: Outfall #6 (LL)

Sampled: 11/21/16 1:00 by ES

6K21088-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 420.4	**Batch ID:** W6K1313	**Prepared:** 11/23/16 08:16				**Analyst:** AJK
Phenolics	**0.021**	0.010	mg/l	1	11/28/16 11:20	
Method: SM 2510B	**Batch ID:** W6K1345	**Prepared:** 11/23/16 12:25				**Analyst:** dmn
Specific Conductance (EC)	**110**	2.0	umhos/cm	1	11/23/16 15:04	
Method: EPA 365.1	**Batch ID:** W6K1603	**Prepared:** 11/29/16 18:55				**Analyst:** mbc
Phosphorus as P, Total	**0.46**	0.040	mg/l	2	12/05/16 15:13	M-06
Method: SM 5310C	**Batch ID:** W6K1627	**Prepared:** 11/30/16 10:01				**Analyst:** jlp
Total Organic Carbon (TOC)	**14**	3.0	mg/l	10	11/30/16 12:55	
Method: SM 2320B	**Batch ID:** W6K1654	**Prepared:** 11/30/16 14:14				**Analyst:** dmn
Alkalinity as CaCO3	**29**	2.0	mg/l	1	11/30/16 15:00	
Method: ASTM D7511	**Batch ID:** W6K1700	**Prepared:** 11/30/16 21:35				**Analyst:** mbc
Cyanide, Total	ND	2.0	ug/l	1	12/02/16 21:14	
Method: EPA 410.4	**Batch ID:** W6L0889	**Prepared:** 12/01/16 11:50				**Analyst:** mnq
Chemical Oxygen Demand	**72**	5.0	mg/l	1	12/07/16 16:10	
Method: EPA 365.3	**Batch ID:** W6L0920	**Prepared:** 12/01/16 16:20				**Analyst:** dmn
Phosphorus, Dissolved	**0.28**	0.010	mg/l	1	12/02/16 14:32	
Method: EPA 350.1	**Batch ID:** W6L0932	**Prepared:** 12/01/16 19:20				**Analyst:** mnq
Ammonia as N	**0.70**	0.10	mg/l	1	12/05/16 19:00	
Method: EPA 353.2	**Batch ID:** W6L1321	**Prepared:** 12/08/16 16:28				**Analyst:** AJK
NO2+NO3 as N	**1700**	100	ug/l	1	12/08/16 16:47	
Hexavalent Chromium by IC						
Method: EPA 218.6	**Batch ID:** W6L0976	**Prepared:** 12/02/16 13:50				**Analyst:** blg
Chromium 6+	**0.33**	0.020	ug/l	1	12/02/16 14:50	
Method: EPA 218.6	**Batch ID:** W6L1017	**Prepared:** 12/03/16 10:22				**Analyst:** blg
Chromium 6+, Dissolved	**0.31**	0.020	ug/l	1	12/03/16 12:46	
Hydrocarbons by EPA 8015B						
Method: EPA 8015B	**Batch ID:** W6K1375	**Prepared:** 11/23/16 16:44				**Analyst:** enf
Diesel Range Organics	**1.5**	0.10	mg/l	1	12/02/16 01:41	
Oil Range Organics	**2.3**	0.50	mg/l	1	12/02/16 01:41	
Surrogate(s)						
n-Tetracosane	*112%*	*Conc: 0.281*	*64-155*		*12/02/16 01:41*	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	**Batch ID:** [CALC]	**Prepared:** 12/01/16 15:39				**Analyst:** JCK
Calcium Hardness as CaCO3	**31.3**	0.250	mg/l	1	12/05/16 12:05	
Method: EPA 200.8	**Batch ID:** W6L0888	**Prepared:** 12/01/16 11:40				**Analyst:** MTT
Aluminum, Dissolved	**16**	5.0	ug/l	1	12/06/16 00:51	
Aluminum, Total	**970**	5.0	ug/l	1	12/06/16 02:22	
Antimony, Dissolved	**2.0**	0.50	ug/l	1	12/06/16 00:51	
Antimony, Total	**3.1**	0.50	ug/l	1	12/06/16 02:22	

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Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: Outfall #6 (LL)

6K21088-01 (Water)

Sampled: 11/21/16 1:00 by ES

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Arsenic, Dissolved	**1.2**	0.40	ug/l	1	12/06/16 00:51	
Arsenic, Total	**1.8**	0.40	ug/l	1	12/06/16 02:22	
Cadmium, Dissolved	**0.13**	0.10	ug/l	1	12/06/16 00:51	
Cadmium, Total	**0.28**	0.10	ug/l	1	12/06/16 02:22	
Chromium, Dissolved	**0.66**	0.20	ug/l	1	12/06/16 00:51	
Chromium, Total	**2.8**	0.20	ug/l	1	12/06/16 02:22	
Copper, Dissolved	**24**	0.50	ug/l	1	12/06/16 00:51	
Copper, Total	**41**	0.50	ug/l	1	12/06/16 02:22	
Iron, Dissolved	**22**	20	ug/l	1	12/06/16 00:51	
Iron, Total	**1300**	20	ug/l	1	12/06/16 02:22	
Lead, Dissolved	**0.22**	0.20	ug/l	1	12/06/16 00:51	
Lead, Total	**10**	0.20	ug/l	1	12/06/16 02:22	
Nickel, Dissolved	**3.2**	0.80	ug/l	1	12/06/16 00:51	
Nickel, Total	**5.3**	0.80	ug/l	1	12/06/16 02:22	
Method: EPA 200.7	**Batch ID:** W6L0911	**Prepared:** 12/01/16 15:39				**Analyst:** JCK
Calcium, Total	**12.5**	0.100	mg/l	1	12/05/16 12:05	
Method: EPA 200.8	**Batch ID:** W6L1183	**Prepared:** 12/06/16 15:30				**Analyst:** MTT
Zinc, Dissolved	**210**	5.0	ug/l	1	12/09/16 15:36	
Zinc, Total	**330**	5.0	ug/l	1	12/09/16 16:39	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L0944	**Prepared:** 11/21/16 18:35				**Analyst:** gza
Mercury, Dissolved	**7.9**	0.50	ng/l	1	12/02/16 14:24	
Mercury, Total	**18**	0.50	ng/l	1	12/02/16 14:24	
Microbiological Parameters by Standard Methods						
Method: Enterolert	**Batch ID:** W6K1411	**Prepared:** 11/21/16 08:42				**Analyst:** smo
Enterococcus	**12000**	10	MPN/100ml	10	11/22/16 09:43	
Method: SM 9221F	**Batch ID:** W6K1412	**Prepared:** 11/21/16 08:30				**Analyst:** smo
E. coli	**3400**	40	MPN/100ml	20	11/24/16 09:58	
Fecal Coliform	**3400**	40	MPN/100ml	20	11/24/16 09:58	
Total Coliform	**10000**	40	MPN/100ml	20	11/25/16 09:46	

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Sample Results

(Continued)

Sample: Outfall #6 (LL)
6K21088-01RE1 (Water)

Sampled: 11/21/16 1:00 by ES

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS							
Method: GC/MS/MS	**Batch ID:** W6L0875		**Prepared:** 12/01/16 10:09				**Analyst:** EFC
Acenaphthene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Acenaphthylene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Anthracene	**16**		14	ng/l	1	12/07/16 17:45	M-02, O-08
Benzo (a) anthracene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Benzo (a) pyrene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Benzo (b) fluoranthene	**27**		14	ng/l	1	12/07/16 17:45	M-02, O-08
Benzo (g,h,i) perylene	**28**		14	ng/l	1	12/07/16 17:45	M-02, O-08
Benzo (k) fluoranthene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Chrysene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Dibenzo (a,h) anthracene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Fluoranthene	**37**		14	ng/l	1	12/07/16 17:45	M-02, O-08
Fluorene	**17**		14	ng/l	1	12/07/16 17:45	O-08, M-02
Indeno (1,2,3-cd) pyrene	**14**		14	ng/l	1	12/07/16 17:45	M-02, O-08
Naphthalene	ND		14	ng/l	1	12/07/16 17:45	M-02, O-08
Phenanthrene	**100**		14	ng/l	1	12/07/16 17:45	M-02, O-08
Pyrene	**58**		14	ng/l	1	12/07/16 17:45	M-02, O-08
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*46%*	*Conc: 124*	*50-150*			*12/07/16 17:45*	*M-02, O-08, S-GC*
Perylene-d12	*67%*	*Conc: 181*	*50-150*			*12/07/16 17:45*	*M-02, O-08*

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Sample Results

(Continued)

Sample: LL Hg Field Blank
6K21088-02 (Water)

Sampled: 11/21/16 0:00 by ES

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L0944	**Prepared:** 11/21/16 18:35				**Analyst:** gza
Mercury, Total	ND	0.50	ng/l	1	12/02/16 14:24	

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Sample Results

(Continued)

Sample: Outfall #7 (SG)
6K21088-03 (Water)

Sampled: 11/21/16 2:00 by ES

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.0						
Method: EPA 300.0	**Batch ID:** W6L1054	**Prepared:** 12/05/16 10:02				**Analyst:** jan
Chloride, Total	**2.8**	0.50	mg/l	1	12/05/16 19:05	
Sulfate as SO4	**2.9**	0.50	mg/l	1	12/05/16 19:05	
Chlorinated Herbicides						
Method: EPA 515.3	**Batch ID:** W6K1220	**Prepared:** 11/22/16 09:09				**Analyst:** rmr
2,4,5-T	ND	0.20	ug/l	1	12/04/16 00:15	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	12/04/16 00:15	
2,4-D	ND	0.40	ug/l	1	12/04/16 00:15	
2,4-DB	ND	2.0	ug/l	1	12/04/16 00:15	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/04/16 00:15	
Acifluorfen	ND	0.40	ug/l	1	12/04/16 00:15	
Bentazon	ND	2.0	ug/l	1	12/04/16 00:15	
Dalapon	ND	0.40	ug/l	1	12/04/16 00:15	
DCPA	ND	0.10	ug/l	1	12/04/16 00:15	
Dicamba	ND	0.60	ug/l	1	12/04/16 00:15	
Dichloroprop	ND	0.30	ug/l	1	12/04/16 00:15	
Dinoseb	ND	0.40	ug/l	1	12/04/16 00:15	
Pentachlorophenol	**0.56**	0.20	ug/l	1	12/04/16 00:15	
Picloram	ND	0.60	ug/l	1	12/04/16 00:15	
Surrogate(s)						
2,4-DCAA	*101%*	*Conc: 10.1*	*70-130*		*12/04/16 00:15*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: EPA 351.2	**Batch ID:** W6K1176	**Prepared:** 11/21/16 15:24				**Analyst:** ymt
TKN	**2.3**	0.10	mg/l	1	11/23/16 13:56	
Method: SM 5540C	**Batch ID:** W6K1179	**Prepared:** 11/21/16 16:11				**Analyst:** nat
MBAS	**0.27**	0.050	mg/l	1	11/21/16 18:38	
Method: SM 4500O-G	**Batch ID:** W6K1202	**Prepared:** 11/21/16 18:31				**Analyst:** mnq
Dissolved Oxygen	**7.00**	1.00	mg/l	1	11/21/16 19:02	*
Method: SM 5210B	**Batch ID:** W6K1239	**Prepared:** 11/22/16 11:37				**Analyst:** mnq
Biochemical Oxygen Demand	**6.5**	2.0	mg/l	1	11/27/16 18:25	
Method: SM 2540D	**Batch ID:** W6K1241	**Prepared:** 11/22/16 11:41				**Analyst:** ajk
Total Suspended Solids	**46**	5	mg/l	1	11/22/16 14:35	
Method: EPA 160.4	**Batch ID:** W6K1242	**Prepared:** 11/22/16 11:38				**Analyst:** ajk
Volatile Suspended Solids	**19**	5.0	mg/l	1	11/22/16 14:35	
Method: EPA 180.1	**Batch ID:** W6K1254	**Prepared:** 11/22/16 13:39				**Analyst:** dmn
Turbidity	**12**	0.10	NTU	1	11/22/16 15:51	
Method: SM 2540C	**Batch ID:** W6K1289	**Prepared:** 11/22/16 16:19				**Analyst:** ymt
Total Dissolved Solids	**44**	10	mg/l	1	11/23/16 13:25	

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Sample Results

(Continued)

Sample: Outfall #7 (SG)

6K21088-03 (Water)

Sampled: 11/21/16 2:00 by ES

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: EPA 420.4	**Batch ID:** W6K1313	**Prepared:** 11/23/16 08:16				**Analyst:** AJK
Phenolics	**0.045**	0.010	mg/l	1	11/28/16 11:21	
Method: SM 2510B	**Batch ID:** W6K1345	**Prepared:** 11/23/16 12:25				**Analyst:** dmn
Specific Conductance (EC)	**72**	2.0	umhos/cm	1	11/23/16 15:04	
Method: EPA 365.1	**Batch ID:** W6K1603	**Prepared:** 11/29/16 18:55				**Analyst:** mbc
Phosphorus as P, Total	**0.53**	0.040	mg/l	2	12/05/16 15:15	M-06
Method: SM 5310C	**Batch ID:** W6K1627	**Prepared:** 11/30/16 10:01				**Analyst:** jlp
Total Organic Carbon (TOC)	**12**	2.4	mg/l	8	11/30/16 12:55	
Method: SM 2320B	**Batch ID:** W6K1654	**Prepared:** 11/30/16 14:14				**Analyst:** dmn
Alkalinity as CaCO3	**22**	2.0	mg/l	1	11/30/16 15:00	
Method: ASTM D7511	**Batch ID:** W6K1700	**Prepared:** 11/30/16 21:35				**Analyst:** mbc
Cyanide, Total	ND	2.0	ug/l	1	12/02/16 21:14	
Method: EPA 410.4	**Batch ID:** W6L0889	**Prepared:** 12/01/16 11:50				**Analyst:** mnq
Chemical Oxygen Demand	**58**	5.0	mg/l	1	12/07/16 16:10	
Method: EPA 365.3	**Batch ID:** W6L0920	**Prepared:** 12/01/16 16:20				**Analyst:** dmn
Phosphorus, Dissolved	**0.35**	0.010	mg/l	1	12/02/16 14:32	
Method: EPA 350.1	**Batch ID:** W6L0932	**Prepared:** 12/01/16 19:20				**Analyst:** mnq
Ammonia as N	**0.80**	0.10	mg/l	1	12/05/16 19:00	
Method: EPA 353.2	**Batch ID:** W6L1321	**Prepared:** 12/08/16 16:28				**Analyst:** AJK
NO2+NO3 as N	**1100**	100	ug/l	1	12/08/16 16:50	
Hexavalent Chromium by IC						
Method: EPA 218.6	**Batch ID:** W6L0976	**Prepared:** 12/02/16 13:50				**Analyst:** blg
Chromium 6+	**0.24**	0.020	ug/l	1	12/02/16 14:50	
Method: EPA 218.6	**Batch ID:** W6L1017	**Prepared:** 12/03/16 10:22				**Analyst:** blg
Chromium 6+, Dissolved	**0.21**	0.020	ug/l	1	12/03/16 12:46	
Hydrocarbons by EPA 8015B						
Method: EPA 8015B	**Batch ID:** W6K1375	**Prepared:** 11/23/16 16:44				**Analyst:** enf
Diesel Range Organics	**0.69**	0.10	mg/l	1	12/02/16 02:16	
Oil Range Organics	**1.4**	0.50	mg/l	1	12/02/16 02:16	
Surrogate(s)						
n-Tetracosane	*98%*	*Conc: 0.245*	*64-155*		*12/02/16 02:16*	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	**Batch ID:** [CALC]	**Prepared:** 12/01/16 15:39				**Analyst:** JCK
Calcium Hardness as CaCO3	**17.9**	0.250	mg/l	1	12/05/16 12:08	
Method: EPA 200.8	**Batch ID:** W6L0888	**Prepared:** 12/01/16 11:40				**Analyst:** MTT
Aluminum, Dissolved	**20**	5.0	ug/l	1	12/06/16 00:59	
Aluminum, Total	**1000**	5.0	ug/l	1	12/06/16 02:29	
Antimony, Dissolved	**0.99**	0.50	ug/l	1	12/06/16 00:59	
Antimony, Total	**2.2**	0.50	ug/l	1	12/06/16 02:29	

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Project Number: MS4 - Storm Water Monitoring 2015-2016

Project Manager: Edmond G. Suher

Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: Outfall #7 (SG)

6K21088-03 (Water)

Sampled: 11/21/16 2:00 by ES

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Arsenic, Dissolved	**0.83**	0.40	ug/l	1	12/06/16 00:59	
Arsenic, Total	**1.4**	0.40	ug/l	1	12/06/16 02:29	
Cadmium, Dissolved	ND	0.10	ug/l	1	12/06/16 00:59	
Cadmium, Total	**0.14**	0.10	ug/l	1	12/06/16 02:29	
Chromium, Dissolved	**0.53**	0.20	ug/l	1	12/06/16 00:59	
Chromium, Total	**2.5**	0.20	ug/l	1	12/06/16 02:29	
Copper, Dissolved	**13**	0.50	ug/l	1	12/06/16 00:59	
Copper, Total	**23**	0.50	ug/l	1	12/06/16 02:29	
Iron, Dissolved	**29**	20	ug/l	1	12/06/16 00:59	
Iron, Total	**1500**	20	ug/l	1	12/06/16 02:29	
Lead, Dissolved	**0.37**	0.20	ug/l	1	12/06/16 00:59	
Lead, Total	**7.9**	0.20	ug/l	1	12/06/16 02:29	
Nickel, Dissolved	**2.2**	0.80	ug/l	1	12/06/16 00:59	
Nickel, Total	**4.0**	0.80	ug/l	1	12/06/16 02:29	
Method: EPA 200.7	**Batch ID:** W6L0911	**Prepared:** 12/01/16 15:39				**Analyst:** JCK
Calcium, Total	**7.19**	0.100	mg/l	1	12/05/16 12:08	
Method: EPA 200.8	**Batch ID:** W6L1183	**Prepared:** 12/06/16 15:30				**Analyst:** MTT
Zinc, Dissolved	**49**	5.0	ug/l	1	12/09/16 15:39	
Zinc, Total	**100**	5.0	ug/l	1	12/09/16 16:20	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L0944	**Prepared:** 11/21/16 18:35				**Analyst:** gza
Mercury, Dissolved	**5.1**	0.50	ng/l	1	12/02/16 14:24	
Mercury, Total	**14**	0.50	ng/l	1	12/02/16 14:24	
Microbiological Parameters by Standard Methods						
Method: Enterolert	**Batch ID:** W6K1411	**Prepared:** 11/21/16 09:09				**Analyst:** smo
Enterococcus	**34000**	100	MPN/100ml	100	11/22/16 09:43	
Method: SM 9221F	**Batch ID:** W6K1412	**Prepared:** 11/21/16 08:49				**Analyst:** smo
E. coli	**26000**	40	MPN/100ml	20	11/24/16 09:58	
Fecal Coliform	**26000**	40	MPN/100ml	20	11/24/16 09:58	
Total Coliform	**26000**	40	MPN/100ml	20	11/25/16 09:46	

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Sample Results

(Continued)

Sample: Outfall #7 (SG)

6K21088-03RE1 (Water)

Sampled: 11/21/16 2:00 by ES

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS							
Method: GC/MS/MS	**Batch ID:** W6L0875		**Prepared:** 12/01/16 10:09				**Analyst:** EFC
Acenaphthene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Acenaphthylene	ND		10	ng/l	1	12/07/16 18:19	O-08, M-02
Anthracene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Benzo (a) anthracene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Benzo (a) pyrene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Benzo (b) fluoranthene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Benzo (g,h,i) perylene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Benzo (k) fluoranthene	ND		10	ng/l	1	12/07/16 18:19	O-08, M-02
Chrysene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Dibenzo (a,h) anthracene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Fluoranthene	**25**		10	ng/l	1	12/07/16 18:19	M-02, O-08
Fluorene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Indeno (1,2,3-cd) pyrene	ND		10	ng/l	1	12/07/16 18:19	M-02, O-08
Naphthalene	**11**		10	ng/l	1	12/07/16 18:19	O-08, M-02
Phenanthrene	**45**		10	ng/l	1	12/07/16 18:19	M-02, O-08
Pyrene	**16**		10	ng/l	1	12/07/16 18:19	M-02, O-08
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*80%*	*Conc: 161*	*50-150*			*12/07/16 18:19*	*M-02, O-08*
Perylene-d12	*89%*	*Conc: 177*	*50-150*			*12/07/16 18:19*	*M-02, O-08*

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Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: LL Hg Field Blank
6K21088-04 (Water)

Sampled: 11/21/16 0:00 by ES

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L0944	**Prepared:** 11/21/16 18:35				**Analyst:** gza
Mercury, Total	ND	0.50	ng/l	1	12/02/16 14:24	

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Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: Outfall #5 (RH)
6K21088-05 (Water)

Sampled: 11/21/16 3:00 by ES

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.0						
Method: EPA 300.0	**Batch ID:** W6L1054	**Prepared:** 12/05/16 10:02				**Analyst:** jan
Chloride, Total	**4.2**	0.50	mg/l	1	12/06/16 10:01	
Sulfate as SO4	**3.7**	0.50	mg/l	1	12/06/16 10:01	
Chlorinated Herbicides						
Method: EPA 515.3	**Batch ID:** W6K1220	**Prepared:** 11/22/16 09:09				**Analyst:** rmr
2,4,5-T	ND	0.20	ug/l	1	12/04/16 00:52	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	12/04/16 00:52	
2,4-D	ND	0.40	ug/l	1	12/04/16 00:52	
2,4-DB	ND	2.0	ug/l	1	12/04/16 00:52	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/04/16 00:52	
Acifluorfen	ND	0.40	ug/l	1	12/04/16 00:52	
Bentazon	ND	2.0	ug/l	1	12/04/16 00:52	
Dalapon	ND	0.40	ug/l	1	12/04/16 00:52	
DCPA	ND	0.10	ug/l	1	12/04/16 00:52	
Dicamba	ND	0.60	ug/l	1	12/04/16 00:52	
Dichloroprop	ND	0.30	ug/l	1	12/04/16 00:52	
Dinoseb	ND	0.40	ug/l	1	12/04/16 00:52	
Pentachlorophenol	**0.36**	0.20	ug/l	1	12/04/16 00:52	
Picloram	ND	0.60	ug/l	1	12/04/16 00:52	
Surrogate(s)						
2,4-DCAA	*105%*	*Conc: 10.5*	*70-130*		*12/04/16 00:52*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: SM 5540C	**Batch ID:** W6K1179	**Prepared:** 11/21/16 16:11				**Analyst:** nat
MBAS	**0.32**	0.050	mg/l	1	11/21/16 18:38	
Method: SM 4500O-G	**Batch ID:** W6K1202	**Prepared:** 11/21/16 18:31				**Analyst:** mnq
Dissolved Oxygen	**5.40**	1.00	mg/l	1	11/21/16 19:02	*
Method: SM 5210B	**Batch ID:** W6K1239	**Prepared:** 11/22/16 11:37				**Analyst:** mnq
Biochemical Oxygen Demand	**11**	2.0	mg/l	1	11/27/16 18:25	
Method: SM 2540D	**Batch ID:** W6K1241	**Prepared:** 11/22/16 11:41				**Analyst:** ajk
Total Suspended Solids	**49**	5	mg/l	1	11/22/16 14:35	
Method: EPA 160.4	**Batch ID:** W6K1242	**Prepared:** 11/22/16 11:38				**Analyst:** ajk
Volatile Suspended Solids	**23**	5.0	mg/l	1	11/22/16 14:35	
Method: EPA 180.1	**Batch ID:** W6K1254	**Prepared:** 11/22/16 13:39				**Analyst:** dmn
Turbidity	**20**	0.10	NTU	1	11/22/16 15:51	
Method: SM 2540C	**Batch ID:** W6K1289	**Prepared:** 11/22/16 16:19				**Analyst:** ymt
Total Dissolved Solids	**40**	10	mg/l	1	11/23/16 13:25	
Method: EPA 420.4	**Batch ID:** W6K1313	**Prepared:** 11/23/16 08:16				**Analyst:** AJK
Phenolics	**0.016**	0.010	mg/l	1	11/28/16 11:22	

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Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: Outfall #5 (RH)

6K21088-05 (Water)

Sampled: 11/21/16 3:00 by ES

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)						
Method: SM 2510B	**Batch ID:** W6K1345	**Prepared:** 11/23/16 12:25				**Analyst:** dmn
Specific Conductance (EC)	**82**	2.0	umhos/cm	1	11/23/16 15:04	
Method: EPA 351.2	**Batch ID:** W6K1492	**Prepared:** 11/28/16 16:23				**Analyst:** ymt
TKN	**2.5**	0.10	mg/l	1	11/30/16 16:39	
Method: EPA 365.1	**Batch ID:** W6K1603	**Prepared:** 11/29/16 18:55				**Analyst:** mbc
Phosphorus as P, Total	**0.43**	0.040	mg/l	2	12/05/16 15:16	M-06
Method: SM 5310C	**Batch ID:** W6K1627	**Prepared:** 11/30/16 10:01				**Analyst:** jlp
Total Organic Carbon (TOC)	**16**	3.0	mg/l	10	11/30/16 12:55	
Method: SM 2320B	**Batch ID:** W6K1654	**Prepared:** 11/30/16 14:14				**Analyst:** dmn
Alkalinity as CaCO3	**23**	2.0	mg/l	1	11/30/16 15:00	
Method: ASTM D7511	**Batch ID:** W6K1700	**Prepared:** 11/30/16 21:35				**Analyst:** mbc
Cyanide, Total	ND	2.0	ug/l	1	12/02/16 21:14	
Method: EPA 410.4	**Batch ID:** W6L0889	**Prepared:** 12/01/16 11:50				**Analyst:** mnq
Chemical Oxygen Demand	**74**	5.0	mg/l	1	12/07/16 16:10	
Method: EPA 365.3	**Batch ID:** W6L0920	**Prepared:** 12/01/16 16:20				**Analyst:** dmn
Phosphorus, Dissolved	**0.23**	0.010	mg/l	1	12/02/16 14:32	
Method: EPA 350.1	**Batch ID:** W6L0932	**Prepared:** 12/01/16 19:20				**Analyst:** mnq
Ammonia as N	**0.76**	0.10	mg/l	1	12/05/16 19:00	
Method: EPA 353.2	**Batch ID:** W6L1321	**Prepared:** 12/08/16 16:28				**Analyst:** ajk
NO2+NO3 as N	**1400**	100	ug/l	1	12/08/16 16:52	
Hexavalent Chromium by IC						
Method: EPA 218.6	**Batch ID:** W6L0976	**Prepared:** 12/02/16 13:50				**Analyst:** blg
Chromium 6+	**0.48**	0.020	ug/l	1	12/02/16 14:50	
Method: EPA 218.6	**Batch ID:** W6L1017	**Prepared:** 12/03/16 10:22				**Analyst:** blg
Chromium 6+, Dissolved	**0.48**	0.020	ug/l	1	12/03/16 12:46	
Hydrocarbons by EPA 8015B						
Method: EPA 8015B	**Batch ID:** W6K1375	**Prepared:** 11/23/16 16:44				**Analyst:** enf
Diesel Range Organics	**1.2**	0.10	mg/l	1	12/02/16 02:50	
Oil Range Organics	**3.1**	0.50	mg/l	1	12/02/16 02:50	
Surrogate(s)						
n-Tetracosane	*83%*	*Conc: 0.208*	*64-155*		*12/02/16 02:50*	
Metals by EPA 200 Series Methods						
Method: EPA 200.7	**Batch ID:** [CALC]	**Prepared:** 12/01/16 15:39				**Analyst:** JCK
Calcium Hardness as CaCO3	**19.9**	0.250	mg/l	1	12/05/16 12:11	
Method: EPA 200.8	**Batch ID:** W6L0888	**Prepared:** 12/01/16 11:40				**Analyst:** MTT
Aluminum, Dissolved	**38**	5.0	ug/l	1	12/06/16 01:06	
Aluminum, Total	**1200**	5.0	ug/l	1	12/06/16 02:37	
Antimony, Dissolved	**1.9**	0.50	ug/l	1	12/06/16 01:06	
Antimony, Total	**3.9**	0.50	ug/l	1	12/06/16 02:37	

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Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: Outfall #5 (RH)

6K21088-05 (Water)

Sampled: 11/21/16 3:00 by ES

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Arsenic, Dissolved	**0.84**	0.40	ug/l	1	12/06/16 01:06	
Arsenic, Total	**1.3**	0.40	ug/l	1	12/06/16 02:37	
Cadmium, Dissolved	ND	0.10	ug/l	1	12/06/16 01:06	
Cadmium, Total	**0.19**	0.10	ug/l	1	12/06/16 02:37	
Chromium, Dissolved	**0.85**	0.20	ug/l	1	12/06/16 01:06	
Chromium, Total	**3.1**	0.20	ug/l	1	12/06/16 02:37	
Copper, Dissolved	**19**	0.50	ug/l	1	12/06/16 01:06	
Copper, Total	**36**	0.50	ug/l	1	12/06/16 02:37	
Iron, Dissolved	**52**	20	ug/l	1	12/06/16 01:06	
Iron, Total	**1400**	20	ug/l	1	12/06/16 02:37	
Lead, Dissolved	**1.3**	0.20	ug/l	1	12/06/16 01:06	
Lead, Total	**14**	0.20	ug/l	1	12/06/16 02:37	
Nickel, Dissolved	**2.5**	0.80	ug/l	1	12/06/16 01:06	
Nickel, Total	**4.3**	0.80	ug/l	1	12/06/16 02:37	
Method: EPA 200.7	**Batch ID:** W6L0911	**Prepared:** 12/01/16 15:39				**Analyst:** JCK
Calcium, Total	**7.98**	0.100	mg/l	1	12/05/16 12:11	
Method: EPA 200.8	**Batch ID:** W6L1183	**Prepared:** 12/06/16 15:30				**Analyst:** MTT
Zinc, Dissolved	**110**	5.0	ug/l	1	12/09/16 15:43	
Zinc, Total	**190**	5.0	ug/l	1	12/09/16 16:23	
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L0944	**Prepared:** 11/21/16 18:35				**Analyst:** gza
Mercury, Dissolved	**4.8**	0.50	ng/l	1	12/02/16 14:24	
Mercury, Total	**13**	0.50	ng/l	1	12/02/16 14:24	
Microbiological Parameters by Standard Methods						
Method: Enterolert	**Batch ID:** W6K1411	**Prepared:** 11/21/16 09:09				**Analyst:** smo
Enterococcus	**17000**	10	MPN/100ml	10	11/22/16 09:43	
Method: SM 9221F	**Batch ID:** W6K1412	**Prepared:** 11/21/16 08:59				**Analyst:** smo
E. coli	**16000**	40	MPN/100ml	20	11/24/16 09:58	
Fecal Coliform	**16000**	40	MPN/100ml	20	11/24/16 09:58	
Total Coliform	**320000**	40	MPN/100ml	20	11/24/16 09:58	

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Reported: 12/19/2016 15:23

Sample Results

(Continued)

Sample: Outfall #5 (RH)
6K21088-05RE1 (Water)

Sampled: 11/21/16 3:00 by ES

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by Tandem GC/MS/MS							
Method: GC/MS/MS	**Batch ID:** W6L0875		**Prepared:** 12/01/16 10:09				**Analyst:** EFC
Acenaphthene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Acenaphthylene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Anthracene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Benzo (a) anthracene	ND		10	ng/l	1	12/07/16 18:53	O-08, M-02
Benzo (a) pyrene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Benzo (b) fluoranthene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Benzo (g,h,i) perylene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Benzo (k) fluoranthene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Chrysene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Dibenzo (a,h) anthracene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Fluoranthene	**12**		10	ng/l	1	12/07/16 18:53	M-02, O-08
Fluorene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Indeno (1,2,3-cd) pyrene	ND		10	ng/l	1	12/07/16 18:53	M-02, O-08
Naphthalene	**41**		10	ng/l	1	12/07/16 18:53	M-02, O-08
Phenanthrene	**21**		10	ng/l	1	12/07/16 18:53	M-02, O-08
Pyrene	**12**		10	ng/l	1	12/07/16 18:53	M-02, O-08
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*63%*	*Conc: 126*	*50-150*			*12/07/16 18:53*	*M-02, O-08*
Perylene-d12	*99%*	*Conc: 198*	*50-150*			*12/07/16 18:53*	*O-08, M-02*

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Sample Results

(Continued)

Sample: LL Hg Field Blank
6K21088-06 (Water)

Sampled: 11/21/16 0:00 by ES

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Mercury - Low Level by CVAFS						
Method: EPA 1631E	**Batch ID:** W6L0944	**Prepared:** 11/21/16 18:35				**Analyst:** gza
Mercury, Total	ND	0.50	ng/l	1	12/02/16 14:24	

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Quality Control Results

Anions by IC, EPA Method 300.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1054 - EPA 300.0										
Blank (W6L1054-BLK1)				**Prepared & Analyzed: 12/05/16**						
Chloride, Total	ND	0.50	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W6L1054-BS1)				**Prepared & Analyzed: 12/05/16**						
Chloride, Total	2.31	0.50	mg/l	2.50		92	90-110			
Sulfate as SO4	2.42	0.50	mg/l	2.50		97	90-110			
Matrix Spike (W6L1054-MS1)	**Source: 6K21076-01**			**Prepared & Analyzed: 12/05/16**						
Chloride, Total	4.72	0.50	mg/l	2.50	2.48	90	76-118			
Sulfate as SO4	5.92	0.50	mg/l	2.50	3.63	92	78-111			
Matrix Spike Dup (W6L1054-MSD1)	**Source: 6K21076-01**			**Prepared & Analyzed: 12/05/16**						
Chloride, Total	4.70	0.50	mg/l	2.50	2.48	89	76-118	0.6	20	
Sulfate as SO4	5.85	0.50	mg/l	2.50	3.63	89	78-111	1	20	

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Quality Control Results (Continued)

Chlorinated Herbicides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1220 - EPA 515.3										
Blank (W6K1220-BLK1)				**Prepared: 11/22/16 Analyzed: 12/03/16**						
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							
Surrogate(s)										
2,4-DCAA		*9.02*	*ug/l*	*10.0*		*90*	*70-130*			
LCS (W6K1220-BS1)				**Prepared: 11/22/16 Analyzed: 12/03/16**						
2,4,5-T	3.71	0.20	ug/l	4.00		93	70-130			
2,4,5-TP (Silvex)	3.60	0.20	ug/l	4.00		90	70-130			
2,4-D	7.27	0.40	ug/l	8.00		91	70-130			
2,4-DB	13.4	2.0	ug/l	16.0		84	70-130			
3,5-Dichlorobenzoic acid	7.52	1.0	ug/l	8.00		94	70-130			
Acifluorfen	3.39	0.40	ug/l	4.00		85	70-130			
Bentazon	14.2	2.0	ug/l	16.0		88	70-130			
Dalapon	6.39	0.40	ug/l	8.00		80	70-130			
DCPA	3.45	0.10	ug/l	4.00		86	70-130			
Dicamba	7.22	0.60	ug/l	8.00		90	70-130			
Dichloroprop	7.66	0.30	ug/l	8.00		96	70-130			
Dinoseb	3.70	0.40	ug/l	4.00		93	70-130			
Pentachlorophenol	3.42	0.20	ug/l	4.00		86	70-130			
Picloram	3.71	0.60	ug/l	4.00		93	70-130			
Surrogate(s)										
2,4-DCAA		*9.95*	*ug/l*	*10.0*		*99*	*70-130*			

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Quality Control Results (Continued)

Chlorinated Herbicides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1220 - EPA 515.3 (Continued)										
Matrix Spike (W6K1220-MS1)	**Source: 6K21046-01**			**Prepared: 11/22/16**	**Analyzed: 12/03/16**					
2,4,5-T	3.46	0.20	ug/l	4.00	ND	86	70-130			
2,4,5-TP (Silvex)	3.65	0.20	ug/l	4.00	ND	91	70-130			
2,4-D	8.55	0.40	ug/l	8.00	ND	107	70-130			
2,4-DB	13.8	2.0	ug/l	16.0	ND	86	70-130			
3,5-Dichlorobenzoic acid	7.78	1.0	ug/l	8.00	ND	97	70-130			
Acifluorfen	3.83	0.40	ug/l	4.00	ND	96	70-130			
Bentazon	16.3	2.0	ug/l	16.0	ND	102	70-130			
Dalapon	6.01	0.40	ug/l	8.00	ND	75	70-130			
DCPA	3.42	0.10	ug/l	4.00	ND	85	70-130			
Dicamba	7.47	0.60	ug/l	8.00	ND	93	70-130			
Dichloroprop	8.34	0.30	ug/l	8.00	ND	104	70-130			
Dinoseb	3.83	0.40	ug/l	4.00	ND	96	70-130			
Pentachlorophenol	3.54	0.20	ug/l	4.00	0.122	85	70-130			
Picloram	3.95	0.60	ug/l	4.00	ND	99	70-130			
Surrogate(s)										
2,4-DCAA		*10.5*	*ug/l*	*10.0*		*105*	*70-130*			
Matrix Spike (W6K1220-MS2)	**Source: 6K21076-01**			**Prepared: 11/22/16**	**Analyzed: 12/03/16**					
2,4,5-T	3.53	0.20	ug/l	4.00	ND	88	70-130			
2,4,5-TP (Silvex)	3.69	0.20	ug/l	4.00	ND	92	70-130			
2,4-D	8.72	0.40	ug/l	8.00	ND	109	70-130			
2,4-DB	18.1	2.0	ug/l	16.0	ND	113	70-130			
3,5-Dichlorobenzoic acid	8.23	1.0	ug/l	8.00	ND	103	70-130			
Acifluorfen	4.18	0.40	ug/l	4.00	ND	104	70-130			
Bentazon	17.1	2.0	ug/l	16.0	ND	107	70-130			
Dalapon	6.23	0.40	ug/l	8.00	ND	78	70-130			
DCPA	3.62	0.10	ug/l	4.00	ND	91	70-130			
Dicamba	7.80	0.60	ug/l	8.00	ND	97	70-130			
Dichloroprop	7.93	0.30	ug/l	8.00	ND	99	70-130			
Dinoseb	4.22	0.40	ug/l	4.00	ND	105	70-130			
Pentachlorophenol	4.94	0.20	ug/l	4.00	1.29	91	70-130			
Picloram	4.08	0.60	ug/l	4.00	ND	102	70-130			
Surrogate(s)										
2,4-DCAA		*10.9*	*ug/l*	*10.0*		*109*	*70-130*			

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Quality Control Results (Continued)

Chlorinated Herbicides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1220 - EPA 515.3 (Continued)										
Matrix Spike Dup (W6K1220-MSD1)	**Source: 6K21046-01**			**Prepared: 11/22/16 Analyzed: 12/03/16**						
2,4,5-T	3.66	0.20	ug/l	4.00	ND	91	70-130	6	30	
2,4,5-TP (Silvex)	3.62	0.20	ug/l	4.00	ND	90	70-130	1	30	
2,4-D	7.83	0.40	ug/l	8.00	ND	98	70-130	9	30	
2,4-DB	14.9	2.0	ug/l	16.0	ND	93	70-130	8	30	
3,5-Dichlorobenzoic acid	7.82	1.0	ug/l	8.00	ND	98	70-130	0.5	30	
Acifluorfen	4.03	0.40	ug/l	4.00	ND	101	70-130	5	30	
Bentazon	16.6	2.0	ug/l	16.0	ND	104	70-130	2	30	
Dalapon	6.25	0.40	ug/l	8.00	ND	78	70-130	4	30	
DCPA	3.53	0.10	ug/l	4.00	ND	88	70-130	3	30	
Dicamba	7.49	0.60	ug/l	8.00	ND	94	70-130	0.2	30	
Dichloroprop	8.41	0.30	ug/l	8.00	ND	105	70-130	0.9	30	
Dinoseb	3.86	0.40	ug/l	4.00	ND	96	70-130	0.7	30	
Pentachlorophenol	3.55	0.20	ug/l	4.00	0.122	86	70-130	0.4	30	
Picloram	3.81	0.60	ug/l	4.00	ND	95	70-130	4	30	
Surrogate(s)										
2,4-DCAA	*10.7*		*ug/l*	*10.0*		*107*	*70-130*			
Matrix Spike Dup (W6K1220-MSD2)	**Source: 6K21076-01**			**Prepared: 11/22/16 Analyzed: 12/03/16**						
2,4,5-T	3.48	0.20	ug/l	4.00	ND	87	70-130	2	30	
2,4,5-TP (Silvex)	3.58	0.20	ug/l	4.00	ND	90	70-130	3	30	
2,4-D	8.80	0.40	ug/l	8.00	ND	110	70-130	1	30	
2,4-DB	18.8	2.0	ug/l	16.0	ND	118	70-130	4	30	
3,5-Dichlorobenzoic acid	8.08	1.0	ug/l	8.00	ND	101	70-130	2	30	
Acifluorfen	4.01	0.40	ug/l	4.00	ND	100	70-130	4	30	
Bentazon	16.6	2.0	ug/l	16.0	ND	104	70-130	3	30	
Dalapon	6.68	0.40	ug/l	8.00	ND	83	70-130	7	30	
DCPA	3.51	0.10	ug/l	4.00	ND	88	70-130	3	30	
Dicamba	7.46	0.60	ug/l	8.00	ND	93	70-130	4	30	
Dichloroprop	8.82	0.30	ug/l	8.00	ND	110	70-130	11	30	
Dinoseb	4.18	0.40	ug/l	4.00	ND	104	70-130	1	30	
Pentachlorophenol	4.84	0.20	ug/l	4.00	1.29	89	70-130	2	30	
Picloram	4.24	0.60	ug/l	4.00	ND	106	70-130	4	30	
Surrogate(s)										
2,4-DCAA	*10.3*		*ug/l*	*10.0*		*103*	*70-130*			

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Quality Control Results (Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1176 - EPA 351.2										
Blank (W6K1176-BLK1)				**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	ND	0.10	mg/l							
Blank (W6K1176-BLK2)				**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	ND	0.10	mg/l							
LCS (W6K1176-BS1)				**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	0.974	0.10	mg/l	1.00		97	90-110			
LCS (W6K1176-BS2)				**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	0.949	0.10	mg/l	1.00		95	90-110			
Matrix Spike (W6K1176-MS1)	**Source: 6K14055-06**			**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	1.61	0.10	mg/l	1.00	0.622	99	90-110			
Matrix Spike (W6K1176-MS2)	**Source: 6K14055-07**			**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	2.67	0.10	mg/l	1.00	1.65	102	90-110			
Matrix Spike Dup (W6K1176-MSD1)	**Source: 6K14055-06**			**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	1.64	0.10	mg/l	1.00	0.622	102	90-110	2	10	
Matrix Spike Dup (W6K1176-MSD2)	**Source: 6K14055-07**			**Prepared: 11/21/16**	**Analyzed: 11/23/16**					
TKN	2.69	0.10	mg/l	1.00	1.65	104	90-110	0.8	10	
Batch: W6K1179 - SM 5540C										
Blank (W6K1179-BLK1)				**Prepared & Analyzed: 11/21/16**						
MBAS	ND	0.050	mg/l							

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1179 - SM 5540C (Continued)										
LCS (W6K1179-BS1)				**Prepared & Analyzed: 11/21/16**						
MBAS	0.202	0.050	mg/l	0.200		101	82-115			
Matrix Spike (W6K1179-MS1)	**Source: 6K21023-12**			**Prepared & Analyzed: 11/21/16**						
MBAS	0.203	0.050	mg/l	0.200	ND	101	74-123			
Matrix Spike Dup (W6K1179-MSD1)	**Source: 6K21023-12**			**Prepared & Analyzed: 11/21/16**						
MBAS	0.201	0.050	mg/l	0.200	ND	100	74-123	1	20	
Batch: W6K1239 - SM 5210B										
LCS (W6K1239-BS1)				**Prepared: 11/22/16 Analyzed: 11/27/16**						
Biochemical Oxygen Demand	185	2.0	mg/l	198		93	85-115			
Duplicate (W6K1239-DUP1)	**Source: 6K21076-01**			**Prepared: 11/22/16 Analyzed: 11/27/16**						
Biochemical Oxygen Demand	7.62	2.0	mg/l		7.71			1	20	
Batch: W6K1241 - SM 2540D										
Blank (W6K1241-BLK1)				**Prepared & Analyzed: 11/22/16**						
Total Suspended Solids	ND	5	mg/l							
LCS (W6K1241-BS1)				**Prepared & Analyzed: 11/22/16**						
Total Suspended Solids	54.0	5	mg/l	53.1		102	90-110			
Duplicate (W6K1241-DUP1)	**Source: 6K21046-01**			**Prepared & Analyzed: 11/22/16**						
Total Suspended Solids	12.0	5	mg/l		13.0			8	20	

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1241 - SM 2540D (Continued)										
Duplicate (W6K1241-DUP2)	**Source: 6K21118-11**			**Prepared & Analyzed: 11/22/16**						
Total Suspended Solids	ND	5	mg/l		ND				20	
Batch: W6K1242 - EPA 160.4										
Blank (W6K1242-BLK1)				**Prepared & Analyzed: 11/22/16**						
Volatile Suspended Solids	ND	5.0	mg/l							
Duplicate (W6K1242-DUP1)	**Source: 6K21046-01**			**Prepared & Analyzed: 11/22/16**						
Volatile Suspended Solids	6.0	5.0	mg/l		6.0			0	15	
Duplicate (W6K1242-DUP2)	**Source: 6K21118-11**			**Prepared & Analyzed: 11/22/16**						
Volatile Suspended Solids	ND	5.0	mg/l		ND				15	
Batch: W6K1254 - EPA 180.1										
Blank (W6K1254-BLK1)				**Prepared & Analyzed: 11/22/16**						
Turbidity	ND	0.10	NTU							
LCS (W6K1254-BS1)				**Prepared & Analyzed: 11/22/16**						
Turbidity	6.94	0.10	NTU	7.36		94	90-110			
Duplicate (W6K1254-DUP1)	**Source: 6K21093-02**			**Prepared & Analyzed: 11/22/16**						
Turbidity	14.9	0.10	NTU		15.7			5	10	
Batch: W6K1289 - SM 2540C										
Blank (W6K1289-BLK1)				**Prepared: 11/22/16 Analyzed: 11/23/16**						
Total Dissolved Solids	ND	10	mg/l							

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1289 - SM 2540C (Continued)										
LCS (W6K1289-BS1)				**Prepared: 11/22/16**	**Analyzed: 11/23/16**					
Total Dissolved Solids	832	10	mg/l	824		101	96-102			
Duplicate (W6K1289-DUP1)	**Source: 6K21105-04**			**Prepared: 11/22/16**	**Analyzed: 11/23/16**					
Total Dissolved Solids	3280	10	mg/l		3060			7	10	
Duplicate (W6K1289-DUP2)	**Source: 6K21118-05**			**Prepared: 11/22/16**	**Analyzed: 11/23/16**					
Total Dissolved Solids	3750	10	mg/l		3860			3	10	
Batch: W6K1313 - EPA 420.4										
Blank (W6K1313-BLK1)				**Prepared: 11/23/16**	**Analyzed: 11/28/16**					
Phenolics	ND	0.010	mg/l							
LCS (W6K1313-BS1)				**Prepared: 11/23/16**	**Analyzed: 11/28/16**					
Phenolics	0.0986	0.010	mg/l	0.100		99	90-110			
Matrix Spike (W6K1313-MS1)	**Source: 6K21046-01**			**Prepared: 11/23/16**	**Analyzed: 11/28/16**					
Phenolics	0.241	0.010	mg/l	0.250	0.00713	93	90-110			
Matrix Spike Dup (W6K1313-MSD1)	**Source: 6K21046-01**			**Prepared: 11/23/16**	**Analyzed: 11/28/16**					
Phenolics	0.242	0.010	mg/l	0.250	0.00713	94	90-110	0.5	20	
Batch: W6K1345 - SM 2510B										
Blank (W6K1345-BLK1)				**Prepared & Analyzed: 11/23/16**						
Specific Conductance (EC)	ND	2.0	umhos/cm							

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1345 - SM 2510B (Continued)										
LCS (W6K1345-BS1)				**Prepared & Analyzed: 11/23/16**						
Specific Conductance (EC)	199	2.0	umhos/cm	200		100	95-105			
Duplicate (W6K1345-DUP1)	**Source: 6K21046-01**			**Prepared & Analyzed: 11/23/16**						
Specific Conductance (EC)	104	2.0	umhos/cm		105			0.3	5	
Batch: W6K1492 - EPA 351.2										
Blank (W6K1492-BLK1)				**Prepared: 11/28/16 Analyzed: 11/30/16**						
TKN	ND	0.10	mg/l							
Blank (W6K1492-BLK2)				**Prepared: 11/28/16 Analyzed: 11/30/16**						
TKN	ND	0.10	mg/l							
LCS (W6K1492-BS1)				**Prepared: 11/28/16 Analyzed: 11/30/16**						
TKN	0.993	0.10	mg/l	1.00		99	90-110			
LCS (W6K1492-BS2)				**Prepared: 11/28/16 Analyzed: 11/30/16**						
TKN	0.960	0.10	mg/l	1.00		96	90-110			
Matrix Spike (W6K1492-MS1)	**Source: 6K22088-03**			**Prepared: 11/28/16 Analyzed: 11/30/16**						
TKN	1.23	0.10	mg/l	1.00	0.236	100	90-110			
Matrix Spike (W6K1492-MS2)	**Source: 6K22088-04**			**Prepared: 11/28/16 Analyzed: 11/30/16**						
TKN	1.16	0.10	mg/l	1.00	0.247	92	90-110			
Matrix Spike Dup (W6K1492-MSD1)	**Source: 6K22088-03**			**Prepared: 11/28/16 Analyzed: 11/30/16**						
TKN	1.24	0.10	mg/l	1.00	0.236	101	90-110	0.6	10	

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1492 - EPA 351.2 (Continued)										
Matrix Spike Dup (W6K1492-MSD2)	**Source: 6K22088-04**			**Prepared: 11/28/16**	**Analyzed: 11/30/16**					
TKN	1.14	0.10	mg/l	1.00	0.247	89	90-110	2	10	MS-01
Batch: W6K1603 - EPA 365.1										
Blank (W6K1603-BLK1)				**Prepared: 11/29/16**	**Analyzed: 12/05/16**					
Phosphorus as P, Total	ND	0.010	mg/l							
LCS (W6K1603-BS1)				**Prepared: 11/29/16**	**Analyzed: 12/05/16**					
Phosphorus as P, Total	0.0504	0.010	mg/l	0.0500		101	90-110			
Matrix Spike (W6K1603-MS1)	**Source: 6I28008-01**			**Prepared: 11/29/16**	**Analyzed: 12/05/16**					
Phosphorus as P, Total	0.157	0.010	mg/l	0.0500	0.106	102	90-110			
Matrix Spike (W6K1603-MS2)	**Source: 6I28008-12**			**Prepared: 11/29/16**	**Analyzed: 12/05/16**					
Phosphorus as P, Total	0.0472	0.010	mg/l	0.0500	ND	94	90-110			
Matrix Spike Dup (W6K1603-MSD1)	**Source: 6I28008-01**			**Prepared: 11/29/16**	**Analyzed: 12/05/16**					
Phosphorus as P, Total	0.156	0.010	mg/l	0.0500	0.106	100	90-110	0.6	20	
Matrix Spike Dup (W6K1603-MSD2)	**Source: 6I28008-12**			**Prepared: 11/29/16**	**Analyzed: 12/05/16**					
Phosphorus as P, Total	0.0478	0.010	mg/l	0.0500	ND	96	90-110	1	20	
Batch: W6K1627 - SM 5310C										
Blank (W6K1627-BLK1)				**Prepared & Analyzed: 11/30/16**						
Total Organic Carbon (TOC)	ND	0.30	mg/l							

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1627 - SM 5310C (Continued)										
Blank (W6K1627-BLK2)				**Prepared & Analyzed: 11/30/16**						
Total Organic Carbon (TOC)	ND	0.30	mg/l							
LCS (W6K1627-BS1)				**Prepared & Analyzed: 11/30/16**						
Total Organic Carbon (TOC)	4.93	0.30	mg/l	5.00		99	85-115			
LCS (W6K1627-BS2)				**Prepared & Analyzed: 11/30/16**						
Total Organic Carbon (TOC)	9.82	0.30	mg/l	10.0		98	85-115			
Matrix Spike (W6K1627-MS1)	**Source: 6K21093-02**			**Prepared & Analyzed: 11/30/16**						
Total Organic Carbon (TOC)	8.07	0.30	mg/l	5.00	3.49	92	80-116			
Matrix Spike Dup (W6K1627-MSD1)	**Source: 6K21093-02**			**Prepared & Analyzed: 11/30/16**						
Total Organic Carbon (TOC)	8.55	0.30	mg/l	5.00	3.49	101	80-116	6	20	
Batch: W6K1654 - SM 2320B										
Blank (W6K1654-BLK1)				**Prepared & Analyzed: 11/30/16**						
Alkalinity as CaCO3	ND	2.0	mg/l							
LCS (W6K1654-BS1)				**Prepared & Analyzed: 11/30/16**						
Alkalinity as CaCO3	257	2.0	mg/l	250		103	94-108			
Duplicate (W6K1654-DUP1)	**Source: 6K21001-01**			**Prepared & Analyzed: 11/30/16**						
Alkalinity as CaCO3	40.1	2.0	mg/l		39.1			2	15	
Batch: W6K1700 - ASTM D7511										
Blank (W6K1700-BLK1)				**Prepared: 11/30/16 Analyzed: 12/02/16**						
Cyanide, Total	ND	2.0	ug/l							

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1700 - ASTM D7511 (Continued)										
LCS (W6K1700-BS1)				**Prepared: 11/30/16**	**Analyzed: 12/02/16**					
Cyanide, Total	47.4	2.0	ug/l	50.0		95	84-116			
LCS Dup (W6K1700-BSD1)				**Prepared: 11/30/16**	**Analyzed: 12/02/16**					
Cyanide, Total	48.7	2.0	ug/l	50.0		97	84-116	3	12	
Matrix Spike (W6K1700-MS1)	**Source: 6J20039-04RE1**			**Prepared: 11/30/16**	**Analyzed: 12/02/16**					
Cyanide, Total	48.5	2.0	ug/l	50.0	ND	97	64-136			
Matrix Spike (W6K1700-MS2)	**Source: 6J20039-05RE1**			**Prepared: 11/30/16**	**Analyzed: 12/02/16**					
Cyanide, Total	49.6	2.0	ug/l	50.0	ND	99	64-136			
Matrix Spike Dup (W6K1700-MSD1)	**Source: 6J20039-04RE1**			**Prepared: 11/30/16**	**Analyzed: 12/02/16**					
Cyanide, Total	48.7	2.0	ug/l	50.0	ND	97	64-136	0.2	47	
Matrix Spike Dup (W6K1700-MSD2)	**Source: 6J20039-05RE1**			**Prepared: 11/30/16**	**Analyzed: 12/02/16**					
Cyanide, Total	49.1	2.0	ug/l	50.0	ND	98	64-136	1	47	
Batch: W6L0889 - EPA 410.4										
Blank (W6L0889-BLK1)				**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Chemical Oxygen Demand	ND	5.0	mg/l							
LCS (W6L0889-BS1)				**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Chemical Oxygen Demand	101	5.0	mg/l	100		101	90-110			
Duplicate (W6L0889-DUP1)	**Source: 6K23028-01**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Chemical Oxygen Demand	1450	20	mg/l		1420			2	15	

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0889 - EPA 410.4 (Continued)										
Matrix Spike (W6L0889-MS1)	**Source: 6K23066-01**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Chemical Oxygen Demand	226	10	mg/l	200	14.1	106	90-110			
Matrix Spike (W6L0889-MS2)	**Source: 6K28025-09**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Chemical Oxygen Demand	241	10	mg/l	200	26.8	107	90-110			
Matrix Spike Dup (W6L0889-MSD1)	**Source: 6K23066-01**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Chemical Oxygen Demand	223	10	mg/l	200	14.1	104	90-110	1	15	
Matrix Spike Dup (W6L0889-MSD2)	**Source: 6K28025-09**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Chemical Oxygen Demand	247	10	mg/l	200	26.8	110	90-110	2	15	
Batch: W6L0920 - EPA 365.3										
Blank (W6L0920-BLK1)				**Prepared: 12/01/16**	**Analyzed: 12/02/16**					
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W6L0920-BS1)				**Prepared: 12/01/16**	**Analyzed: 12/02/16**					
Phosphorus, Dissolved	0.206	0.010	mg/l	0.200		103	90-110			
Matrix Spike (W6L0920-MS1)	**Source: 6K21046-01**			**Prepared: 12/01/16**	**Analyzed: 12/02/16**					
Phosphorus, Dissolved	0.320	0.010	mg/l	0.200	0.116	102	90-110			
Matrix Spike Dup (W6L0920-MSD1)	**Source: 6K21046-01**			**Prepared: 12/01/16**	**Analyzed: 12/02/16**					
Phosphorus, Dissolved	0.321	0.010	mg/l	0.200	0.116	102	90-110	0.4	20	
Batch: W6L0932 - EPA 350.1										
Blank (W6L0932-BLK1)				**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	ND	0.10	mg/l							

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0932 - EPA 350.1 (Continued)										
Blank (W6L0932-BLK2)				**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	ND	0.10	mg/l							
LCS (W6L0932-BS1)				**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	0.252	0.10	mg/l	0.250		101	90-110			
LCS Dup (W6L0932-BSD1)				**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	0.264	0.10	mg/l	0.250		106	90-110	5	15	
Duplicate (W6L0932-DUP1)	**Source: 6K22057-10**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	ND	0.10	mg/l		ND				15	
Matrix Spike (W6L0932-MS1)	**Source: 6K22057-07**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	0.263	0.10	mg/l	0.250	ND	105	90-110			
Matrix Spike (W6L0932-MS2)	**Source: 6K22057-08**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	0.272	0.10	mg/l	0.250	ND	109	90-110			
Matrix Spike Dup (W6L0932-MSD1)	**Source: 6K22057-07**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	0.265	0.10	mg/l	0.250	ND	106	90-110	0.8	15	
Matrix Spike Dup (W6L0932-MSD2)	**Source: 6K22057-08**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Ammonia as N	0.272	0.10	mg/l	0.250	ND	109	90-110	0.2	15	
Batch: W6L1321 - EPA 353.2										
Blank (W6L1321-BLK1)				**Prepared & Analyzed: 12/08/16**						
NO2+NO3 as N	ND	100	ug/l							

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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	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1321 - EPA 353.2 (Continued)										
LCS (W6L1321-BS1)				**Prepared & Analyzed: 12/08/16**						
NO2+NO3 as N	1040	100	ug/l	1000		104	90-110			
Matrix Spike (W6L1321-MS1)	**Source: 6L07059-02**			**Prepared & Analyzed: 12/08/16**						
NO2+NO3 as N	1910	100	ug/l	2000	ND	96	90-110			
Matrix Spike (W6L1321-MS2)	**Source: 6L08037-01**			**Prepared & Analyzed: 12/08/16**						
NO2+NO3 as N	4960	100	ug/l	2000	2990	99	90-110			
Matrix Spike Dup (W6L1321-MSD1)	**Source: 6L07059-02**			**Prepared & Analyzed: 12/08/16**						
NO2+NO3 as N	1960	100	ug/l	2000	ND	98	90-110	3	20	
Matrix Spike Dup (W6L1321-MSD2)	**Source: 6L08037-01**			**Prepared & Analyzed: 12/08/16**						
NO2+NO3 as N	4960	100	ug/l	2000	2990	98	90-110	0.1	20	

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Quality Control Results

(Continued)

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0976 - EPA 218.6										
Blank (W6L0976-BLK1)				**Prepared & Analyzed: 12/02/16**						
Chromium 6+	ND	0.020	ug/l							
LCS (W6L0976-BS1)				**Prepared & Analyzed: 12/02/16**						
Chromium 6+	4.98	0.020	ug/l	5.00		100	90-110			
Matrix Spike (W6L0976-MS1)	**Source: 6K21046-01**			**Prepared & Analyzed: 12/02/16**						
Chromium 6+	5.21	0.020	ug/l	5.00	0.237	99	88-112			
Matrix Spike (W6L0976-MS2)	**Source: 6K21076-01**			**Prepared & Analyzed: 12/02/16**						
Chromium 6+	5.45	0.020	ug/l	5.00	0.531	98	88-112			
Matrix Spike Dup (W6L0976-MSD1)	**Source: 6K21046-01**			**Prepared & Analyzed: 12/02/16**						
Chromium 6+	5.31	0.020	ug/l	5.00	0.237	101	88-112	2	10	
Matrix Spike Dup (W6L0976-MSD2)	**Source: 6K21076-01**			**Prepared & Analyzed: 12/02/16**						
Chromium 6+	5.27	0.020	ug/l	5.00	0.531	95	88-112	3	10	
Batch: W6L1017 - EPA 218.6										
Blank (W6L1017-BLK1)				**Prepared & Analyzed: 12/03/16**						
Chromium 6+, Dissolved	ND	0.020	ug/l							
LCS (W6L1017-BS1)				**Prepared & Analyzed: 12/03/16**						
Chromium 6+, Dissolved	4.79	0.020	ug/l	5.00		96	90-110			
Matrix Spike (W6L1017-MS1)	**Source: 6K21046-01**			**Prepared & Analyzed: 12/03/16**						
Chromium 6+, Dissolved	5.35	0.020	ug/l	5.00	0.272	101	88-112			

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Quality Control Results (Continued)

Hexavalent Chromium by IC (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1017 - EPA 218.6 (Continued)										
Matrix Spike Dup (W6L1017-MSD1)	**Source: 6K21046-01**			**Prepared & Analyzed: 12/03/16**						
Chromium 6+, Dissolved	5.44	0.020	ug/l	5.00	0.272	103	88-112	2	10	

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Quality Control Results (Continued)

Hydrocarbons by EPA 8015B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1375 - EPA 8015B										
Blank (W6K1375-BLK1)				**Prepared: 11/23/16**	**Analyzed: 12/01/16**					
Diesel Range Organics	ND	0.10	mg/l							
Oil Range Organics	ND	0.50	mg/l							
Surrogate(s)										
n-Tetracosane		*0.256*	*mg/l*	*0.250*		*103*	*64-155*			
LCS (W6K1375-BS1)				**Prepared: 11/23/16**	**Analyzed: 12/01/16**					
Diesel Range Organics	0.496	0.10	mg/l	0.500		99	56-136			
Surrogate(s)										
n-Tetracosane		*0.246*	*mg/l*	*0.250*		*98*	*64-155*			
Matrix Spike (W6K1375-MS1)	**Source: 6K21001-01**			**Prepared: 11/23/16**	**Analyzed: 12/01/16**					
Diesel Range Organics	0.991	0.10	mg/l	0.500	0.517	95	70-130			
Surrogate(s)										
n-Tetracosane		*0.245*	*mg/l*	*0.250*		*98*	*64-155*			
Matrix Spike Dup (W6K1375-MSD1)	**Source: 6K21001-01**			**Prepared: 11/23/16**	**Analyzed: 12/01/16**					
Diesel Range Organics	0.804	0.10	mg/l	0.500	0.517	57	70-130	21	25	MS-05
Surrogate(s)										
n-Tetracosane		*0.234*	*mg/l*	*0.250*		*93*	*64-155*			

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Quality Control Results (Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0888 - EPA 200.8										
Blank (W6L0888-BLK1)				**Prepared: 12/01/16 Analyzed: 12/05/16**						
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							
LCS (W6L0888-BS1)				**Prepared: 12/01/16 Analyzed: 12/05/16**						
Aluminum, Dissolved	50.0	5.0	ug/l	50.0		100	85-115			
Aluminum, Total	50.0	5.0	ug/l	50.0		100	85-115			
Antimony, Dissolved	50.2	0.50	ug/l	50.0		101	85-115			
Antimony, Total	50.2	0.50	ug/l	50.0		101	85-115			
Arsenic, Dissolved	53.7	0.40	ug/l	50.0		107	85-115			
Arsenic, Total	53.7	0.40	ug/l	50.0		107	85-115			
Cadmium, Dissolved	51.8	0.10	ug/l	50.0		104	85-115			
Cadmium, Total	51.8	0.10	ug/l	50.0		104	85-115			
Chromium, Dissolved	50.4	0.20	ug/l	50.0		101	85-115			
Chromium, Total	50.4	0.20	ug/l	50.0		101	85-115			
Copper, Dissolved	52.7	0.50	ug/l	50.0		105	85-115			
Copper, Total	52.7	0.50	ug/l	50.0		105	85-115			
Iron, Dissolved	1080	20	ug/l	1050		103	85-115			
Iron, Total	1080	20	ug/l	1050		103	85-115			
Lead, Dissolved	49.3	0.20	ug/l	50.0		99	85-115			
Lead, Total	49.3	0.20	ug/l	50.0		99	85-115			
Nickel, Dissolved	51.6	0.80	ug/l	50.0		103	85-115			
Nickel, Total	51.6	0.80	ug/l	50.0		103	85-115			

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Quality Control Results (Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0888 - EPA 200.8 (Continued)										
LCS (W6L0888-BS1)				**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Matrix Spike (W6L0888-MS1)	**Source: 6K21046-01**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Aluminum, Total	399	5.0	ug/l	50.0	336	127	70-130			
Antimony, Total	48.7	0.50	ug/l	50.0	1.12	95	70-130			
Arsenic, Total	55.3	0.40	ug/l	50.0	1.13	108	70-130			
Cadmium, Total	51.5	0.10	ug/l	50.0	0.0800	103	70-130			
Chromium, Total	51.3	0.20	ug/l	50.0	1.00	101	70-130			
Copper, Total	63.7	0.50	ug/l	50.0	11.8	104	70-130			
Iron, Total	1390	20	ug/l	1050	433	91	70-130			
Lead, Total	50.5	0.20	ug/l	50.0	2.20	97	70-130			
Nickel, Total	52.9	0.80	ug/l	50.0	1.81	102	70-130			
Matrix Spike (W6L0888-MS2)	**Source: 6K21076-01**			**Prepared: 12/01/16**	**Analyzed: 12/06/16**					
Aluminum, Total	637	5.0	ug/l	50.0	557	159	70-130			MS-02
Antimony, Total	48.8	0.50	ug/l	50.0	2.15	93	70-130			
Arsenic, Total	55.4	0.40	ug/l	50.0	1.47	108	70-130			
Cadmium, Total	51.1	0.10	ug/l	50.0	0.120	102	70-130			
Chromium, Total	51.2	0.20	ug/l	50.0	1.81	99	70-130			
Copper, Total	92.5	0.50	ug/l	50.0	40.3	104	70-130			
Iron, Total	1610	20	ug/l	1050	734	84	70-130			
Lead, Total	53.9	0.20	ug/l	50.0	5.38	97	70-130			
Nickel, Total	55.6	0.80	ug/l	50.0	5.30	101	70-130			
Matrix Spike Dup (W6L0888-MSD1)	**Source: 6K21046-01**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Aluminum, Total	378	5.0	ug/l	50.0	336	85	70-130	5	30	
Antimony, Total	49.1	0.50	ug/l	50.0	1.12	96	70-130	0.7	30	
Arsenic, Total	54.9	0.40	ug/l	50.0	1.13	108	70-130	0.8	30	
Cadmium, Total	50.8	0.10	ug/l	50.0	0.0800	101	70-130	2	30	
Chromium, Total	50.6	0.20	ug/l	50.0	1.00	99	70-130	1	30	
Copper, Total	62.5	0.50	ug/l	50.0	11.8	101	70-130	2	30	
Iron, Total	1340	20	ug/l	1050	433	86	70-130	4	30	
Lead, Total	51.0	0.20	ug/l	50.0	2.20	98	70-130	1	30	
Nickel, Total	52.3	0.80	ug/l	50.0	1.81	101	70-130	1	30	

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Quality Control Results (Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0888 - EPA 200.8 (Continued)										
Matrix Spike Dup (W6L0888-MSD2)	**Source: 6K21076-01**			**Prepared: 12/01/16**	**Analyzed: 12/06/16**					
Aluminum, Total	672	5.0	ug/l	50.0	557	229	70-130	5	30	MS-02
Antimony, Total	50.0	0.50	ug/l	50.0	2.15	96	70-130	3	30	
Arsenic, Total	58.8	0.40	ug/l	50.0	1.47	115	70-130	6	30	
Cadmium, Total	54.2	0.10	ug/l	50.0	0.120	108	70-130	6	30	
Chromium, Total	55.2	0.20	ug/l	50.0	1.81	107	70-130	8	30	
Copper, Total	98.1	0.50	ug/l	50.0	40.3	116	70-130	6	30	
Iron, Total	1790	20	ug/l	1050	734	101	70-130	11	30	
Lead, Total	55.1	0.20	ug/l	50.0	5.38	99	70-130	2	30	
Nickel, Total	59.7	0.80	ug/l	50.0	5.30	109	70-130	7	30	
Batch: W6L0911 - EPA 200.7										
Blank (W6L0911-BLK1)				**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Calcium, Total	ND	0.100	mg/l							
LCS (W6L0911-BS1)				**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Calcium, Total	47.3	0.100	mg/l	50.0		95	85-115			
Matrix Spike (W6L0911-MS1)	**Source: 6K21088-05**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Calcium, Total	53.8	0.100	mg/l	50.0	7.98	92	70-130			
Matrix Spike Dup (W6L0911-MSD1)	**Source: 6K21088-05**			**Prepared: 12/01/16**	**Analyzed: 12/05/16**					
Calcium, Total	53.4	0.100	mg/l	50.0	7.98	91	70-130	0.7	30	
Batch: W6L1183 - EPA 200.8										
Blank (W6L1183-BLK1)				**Prepared: 12/06/16**	**Analyzed: 12/09/16**					
Zinc, Dissolved	ND	5.0	ug/l							
Zinc, Total	ND	5.0	ug/l							

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Quality Control Results (Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L1183 - EPA 200.8 (Continued)										
LCS (W6L1183-BS1)				**Prepared: 12/06/16**	**Analyzed: 12/09/16**					
Zinc, Dissolved	50.4	5.0	ug/l	50.0		101	85-115			
Zinc, Total	50.4	5.0	ug/l	50.0		101	85-115			
Matrix Spike (W6L1183-MS1)	**Source: 6K21088-01**			**Prepared: 12/06/16**	**Analyzed: 12/09/16**					
Zinc, Total	378	5.0	ug/l	50.0	326	104	70-130			
Matrix Spike (W6L1183-MS2)	**Source: 6K21088-03**			**Prepared: 12/06/16**	**Analyzed: 12/09/16**					
Zinc, Total	152	5.0	ug/l	50.0	105	95	70-130			
Matrix Spike Dup (W6L1183-MSD1)	**Source: 6K21088-01**			**Prepared: 12/06/16**	**Analyzed: 12/09/16**					
Zinc, Total	367	5.0	ug/l	50.0	326	82	70-130	3	30	
Matrix Spike Dup (W6L1183-MSD2)	**Source: 6K21088-03**			**Prepared: 12/06/16**	**Analyzed: 12/09/16**					
Zinc, Total	154	5.0	ug/l	50.0	105	97	70-130	0.8	30	

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Quality Control Results

(Continued)

Mercury - Low Level by CVAFS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0944 - EPA 1631E										
Blank (W6L0944-BLK1)				**Prepared & Analyzed: 12/02/16**						
Mercury, Dissolved	ND	0.50	ng/l							
Mercury, Total	ND	0.50	ng/l							
LCS (W6L0944-BS1)				**Prepared & Analyzed: 12/02/16**						
Mercury, Total	4.80	0.50	ng/l	5.00		96	85-115			
LCS Dup (W6L0944-BSD1)				**Prepared & Analyzed: 12/02/16**						
Mercury, Total	4.69	0.50	ng/l	5.00		94	85-115	2	20	
Matrix Spike (W6L0944-MS1)	**Source: 6K21023-04**			**Prepared & Analyzed: 12/02/16**						
Mercury, Total	16.9	0.50	ng/l	5.00	12.7	84	75-125			
Matrix Spike (W6L0944-MS2)	**Source: 6K21023-08**			**Prepared & Analyzed: 12/02/16**						
Mercury, Total	22.7	0.50	ng/l	5.00	18.8	78	75-125			
Matrix Spike Dup (W6L0944-MSD1)	**Source: 6K21023-04**			**Prepared & Analyzed: 12/02/16**						
Mercury, Total	16.9	0.50	ng/l	5.00	12.7	84	75-125	0	20	
Matrix Spike Dup (W6L0944-MSD2)	**Source: 6K21023-08**			**Prepared & Analyzed: 12/02/16**						
Mercury, Total	22.9	0.50	ng/l	5.00	18.8	82	75-125	0.9	20	

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Quality Control Results

(Continued)

Microbiological Parameters by Standard Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6K1411 - Enterolert										
Blank (W6K1411-BLK1)				**Prepared: 11/21/16 Analyzed: 11/22/16**						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6K1411-BLK2)				**Prepared: 11/21/16 Analyzed: 11/22/16**						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6K1411-BLK3)				**Prepared: 11/22/16 Analyzed: 11/23/16**						
Enterococcus	ND	1.0	MPN/100ml							
Blank (W6K1411-BLK4)				**Prepared: 11/23/16 Analyzed: 11/24/16**						
Enterococcus	ND	1.0	MPN/100ml							
Batch: W6K1412 - SM 9221F										
Blank (W6K1412-BLK1)				**Prepared: 11/21/16 Analyzed: 11/24/16**						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Total Coliform	ND	2.0	MPN/100ml							
Blank (W6K1412-BLK2)				**Prepared: 11/21/16 Analyzed: 11/24/16**						
E. coli	ND	2.0	MPN/100ml							
Fecal Coliform	ND	2.0	MPN/100ml							
Total Coliform	ND	2.0	MPN/100ml							

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Quality Control Results

(Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0875 - GC/MS/MS										
Blank (W6L0875-BLK1)				**Prepared: 12/01/16 Analyzed: 12/07/16**						
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 (g,h,i) perylene	ND	5.0	ng/l							
Benzo (k) fluoranthene	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							
Phenanthrene	ND	5.0	ng/l							
Pyrene	ND	5.0	ng/l							
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*102*		*ng/l*	*100*		*102*	*50-150*			
Perylene-d12	*67.0*		*ng/l*	*100*		*67*	*50-150*			
LCS (W6L0875-BS1)				**Prepared: 12/01/16 Analyzed: 12/07/16**						
Acenaphthene	36.2	5.0	ng/l	50.0		72	50-150			
Acenaphthylene	37.5	5.0	ng/l	50.0		75	50-150			
Anthracene	42.0	5.0	ng/l	50.0		84	50-150			
Benzo (a) anthracene	53.4	5.0	ng/l	50.0		107	50-150			
Benzo (a) pyrene	45.3	5.0	ng/l	50.0		91	50-150			
Benzo (b) fluoranthene	41.6	5.0	ng/l	50.0		83	50-150			
Benzo (g,h,i) perylene	43.6	5.0	ng/l	50.0		87	50-150			
Benzo (k) fluoranthene	47.6	5.0	ng/l	50.0		95	50-150			
Chrysene	44.3	5.0	ng/l	50.0		89	50-150			
Dibenzo (a,h) anthracene	40.5	5.0	ng/l	50.0		81	50-150			
Fluoranthene	46.9	5.0	ng/l	50.0		94	50-150			
Fluorene	39.2	5.0	ng/l	50.0		78	50-150			
Indeno (1,2,3-cd) pyrene	36.2	5.0	ng/l	50.0		72	50-150			
Naphthalene	35.9	5.0	ng/l	50.0		72	50-150			
Phenanthrene	43.9	5.0	ng/l	50.0		88	50-150			
Pyrene	47.9	5.0	ng/l	50.0		96	50-150			
Surrogate(s)										

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Quality Control Results (Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0875 - GC/MS/MS (Continued)										
LCS (W6L0875-BS1)				**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*97.2*		*ng/l*	*100*		*97*	*50-150*			
Perylene-d12	*86.6*		*ng/l*	*100*		*87*	*50-150*			
LCS Dup (W6L0875-BSD1)				**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Acenaphthene	31.2	5.0	ng/l	50.0		62	50-150	15	30	
Acenaphthylene	32.5	5.0	ng/l	50.0		65	50-150	14	30	
Anthracene	37.0	5.0	ng/l	50.0		74	50-150	13	30	
Benzo (a) anthracene	53.0	5.0	ng/l	50.0		106	50-150	0.7	30	
Benzo (a) pyrene	54.6	5.0	ng/l	50.0		109	50-150	19	30	
Benzo (b) fluoranthene	47.7	5.0	ng/l	50.0		95	50-150	13	30	
Benzo (g,h,i) perylene	50.5	5.0	ng/l	50.0		101	50-150	15	30	
Benzo (k) fluoranthene	55.4	5.0	ng/l	50.0		111	50-150	15	30	
Chrysene	46.7	5.0	ng/l	50.0		93	50-150	5	30	
Dibenzo (a,h) anthracene	46.0	5.0	ng/l	50.0		92	50-150	13	30	
Fluoranthene	38.8	5.0	ng/l	50.0		78	50-150	19	30	
Fluorene	33.3	5.0	ng/l	50.0		67	50-150	16	30	
Indeno (1,2,3-cd) pyrene	43.1	5.0	ng/l	50.0		86	50-150	17	30	
Naphthalene	33.5	5.0	ng/l	50.0		67	50-150	7	30	
Phenanthrene	41.6	5.0	ng/l	50.0		83	50-150	5	30	
Pyrene	39.6	5.0	ng/l	50.0		79	50-150	19	30	
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*97.1*		*ng/l*	*100*		*97*	*50-150*			
Perylene-d12	*94.4*		*ng/l*	*100*		*94*	*50-150*			
Matrix Spike (W6L0875-MS1)	**Source: 6K21023-05RE1**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Acenaphthene	57.8	7.1	ng/l	71.4	2.51	77	50-150			M-03
Acenaphthylene	58.7	7.1	ng/l	71.4	1.06	81	50-150			M-03
Anthracene	60.7	7.1	ng/l	71.4	2.89	81	50-150			M-03
Benzo (a) anthracene	91.0	7.1	ng/l	71.4	ND	127	50-150			M-03
Benzo (a) pyrene	69.9	7.1	ng/l	71.4	ND	98	50-150			M-03
Benzo (b) fluoranthene	68.3	7.1	ng/l	71.4	ND	96	50-150			M-03
Benzo (g,h,i) perylene	47.8	7.1	ng/l	71.4	ND	67	50-150			M-03
Benzo (k) fluoranthene	52.2	7.1	ng/l	71.4	ND	73	50-150			M-03
Chrysene	57.6	7.1	ng/l	71.4	ND	81	50-150			M-03
Dibenzo (a,h) anthracene	46.4	7.1	ng/l	71.4	ND	65	50-150			M-03
Fluoranthene	59.3	7.1	ng/l	71.4	6.19	74	50-150			M-03
Fluorene	65.0	7.1	ng/l	71.4	4.46	85	50-150			M-03
Indeno (1,2,3-cd) pyrene	56.4	7.1	ng/l	71.4	ND	79	50-150			M-03
Naphthalene	63.1	7.1	ng/l	71.4	14.5	68	50-150			M-03

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Quality Control Results (Continued)

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

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6L0875 - GC/MS/MS (Continued)										
Matrix Spike (W6L0875-MS1)	**Source: 6K21023-05RE1**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Phenanthrene	81.8	7.1	ng/l	71.4	10.3	100	50-150			M-03
Pyrene	63.3	7.1	ng/l	71.4	5.12	81	50-150			M-03
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*150*		*ng/l*	*143*		*105*	*50-150*			*M-03*
Perylene-d12	*126*		*ng/l*	*143*		*89*	*50-150*			*M-03*
Matrix Spike Dup (W6L0875-MSD1)	**Source: 6K21023-05RE1**			**Prepared: 12/01/16**	**Analyzed: 12/07/16**					
Acenaphthene	44.5	7.1	ng/l	71.4	2.51	59	50-150	26	30	M-03
Acenaphthylene	46.1	7.1	ng/l	71.4	1.06	63	50-150	24	30	M-03
Anthracene	54.9	7.1	ng/l	71.4	2.89	73	50-150	10	30	M-03
Benzo (a) anthracene	73.1	7.1	ng/l	71.4	ND	102	50-150	22	30	M-03
Benzo (a) pyrene	49.3	7.1	ng/l	71.4	ND	69	50-150	35	30	M-03, MS-05
Benzo (b) fluoranthene	56.0	7.1	ng/l	71.4	ND	78	50-150	20	30	M-03
Benzo (g,h,i) perylene	37.9	7.1	ng/l	71.4	ND	53	50-150	23	30	M-03
Benzo (k) fluoranthene	40.2	7.1	ng/l	71.4	ND	56	50-150	26	30	M-03
Chrysene	43.6	7.1	ng/l	71.4	ND	61	50-150	28	30	M-03
Dibenzo (a,h) anthracene	36.7	7.1	ng/l	71.4	ND	51	50-150	23	30	M-03
Fluoranthene	60.1	7.1	ng/l	71.4	6.19	75	50-150	1	30	M-03
Fluorene	51.3	7.1	ng/l	71.4	4.46	66	50-150	24	30	M-03
Indeno (1,2,3-cd) pyrene	44.2	7.1	ng/l	71.4	ND	62	50-150	24	30	M-03
Naphthalene	43.1	7.1	ng/l	71.4	14.5	40	50-150	38	30	M-03, MS-05
Phenanthrene	62.6	7.1	ng/l	71.4	10.3	73	50-150	27	30	M-03
Pyrene	61.0	7.1	ng/l	71.4	5.12	78	50-150	4	30	M-03
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*116*		*ng/l*	*143*		*81*	*50-150*			*M-03*
Perylene-d12	*99.7*		*ng/l*	*143*		*70*	*50-150*			*M-03*

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

Project Number: MS4 - Storm Water Monitoring 2015-2016

Project Manager: Edmond G. Suher

Reported: 12/19/2016 15:23

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.
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-03	Due to insufficient sample volume, 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-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-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.
O-08	The original extraction and/or analysis of this sample yielded QC recoveries outside acceptance criteria. It was re-extracted/re-analyzed after the recommended maximum hold time.
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.

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CLIENT NAME: CASC ENGINEERING & CONSULTING

PROJECT: EL MONTE SW OUTFALL MONITORING

ADDRESS: 2740 W. MAGNOLIA BLVD # 102, BURBANK, CA 91505

PHONE #: 310-291-1150

FAX #:

PROJECT MANAGER: ED SUHER

SAMPLER: ES

EMAIL:

P.O. #:

SPECIAL HANDLING

- ☐ Same Day Rush
- ☐ 24 Hour Rush
- ☐ 48-72 Hour Rush
- ☐ 4-5 Day Rush
- ☐ Rush Extraction
- ☒ 10-15 Business Days
- ☐ QA/QC Package

Additional surcharges will apply for rush requests, weekends & holidays.

ID # (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	SAMPLE INDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSIS REQUESTED: SEE ATTACHED REDLINED LIST.	COMMENTS:
	11/21/16	0100	RW	OUTFALL # 6 (LL)	23	X	
	11/21/16	0200	RW	OUTFALL #7 (SG)	23	X	
	11/21/16	0300	RW	OUTFALL #5 (RH)	23	X	

RELINQUISHED BY:		DATE / TIME	RECEIVED BY:		DATE / TIME
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME	
E G Suher	EDMOND G. SUHER	11/21/16 805am		Marilyn Romero	11/22/16 8:05AM
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME	
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME	

SAMPLE CONDITION:

Actual Temperature 5.6°C

Received on Ice	(Y) / N
Preserved at Lab	(Y) / N
Preserved	(Y) / N
Evidence Seals Present	Y / (N)
Evidence Seals Intact	Y / (N)
Container Intact	(Y) / N

Method of Shipment _____

SAMPLE TYPE CODE:

AQ = Aqueous
NA = Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM OR AT WWW.WECKLABS.COM)

SPECIAL REQUIREMENTS/BILLING INFORMATION

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Expires: 06/30/16

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

Project: MS4 - Storm Water Monitoring ~~2015-2016~~ 16-17 : EL MONTE

Code	Method	Qty	TAT (workdays)
Water			
200.7 Hardness	_Varies	1	15
Alkalinity, total - SM 2320B	SM 2320B	1	15
Aluminum - EPA 200.8	EPA 200.8	1	15
Aluminum, dissolved - EPA 200.8	EPA 200.8	1	15
Ammonia-N - EPA 350.1	EPA 350.1	1	15
Antimony - EPA 200.8	EPA 200.8	1	15
Antimony, dissolved - EPA 200.8	EPA 200.8	1	15
Arsenic - EPA 200.8	EPA 200.8	1	15
Arsenic, dissolved - EPA 200.8	EPA 200.8	1	15
~~Beryllium - EPA 200.8~~	~~EPA 200.8~~	~~1~~	~~15~~
~~Beryllium, dissolved - EPA 200.8~~	~~EPA 200.8~~	~~1~~	~~15~~
Biochemical Oxygen Demand - SM5210B	SM 5210B	1	15
Cadmium - EPA 200.8	EPA 200.8	1	15
Cadmium, dissolved - EPA 200.8	EPA 200.8	1	15
Chemical Oxygen Demand - EPA 410.4	EPA 410.4	1	15
Chloride - EPA 300.0	EPA 300.0	1	15
Chromium - EPA 200.8	EPA 200.8	1	15
Chromium, dissolved - EPA 200.8	EPA 200.8	1	15
Chromium, Hexavalent - EPA 218.6	EPA 218.6	1	15
Chromium, Hexavalent, dissolved - EPA 218.6	EPA 218.6	1	15
Copper - EPA 200.8	EPA 200.8	1	15
Copper, dissolved - EPA 200.8	EPA 200.8	1	15
Cyanide, Total - ASTM D 7511	ASTM D7511	1	15
Dissolved Oxygen - SM 4500O G	SM 4500O-G	1	15
E.Coli Coliform by Enumeration SM9221 F	SM 9221F	1	15
Enterococcus - Enterolert	Enterolert	1	15
EPA 515.3 - Chlorinated Acid Herbicides	EPA 515.3	1	15
~~EPA 525.2 - 507 full list~~	~~EPA 525.2~~	~~1~~	~~15~~
~~EPA 525.2 Mod - OPP low level~~	~~EPA 525.2~~	~~1~~	~~15~~
~~EPA 547 - Glyphosate~~	~~EPA 547~~	~~1~~	~~15~~
~~EPA 608 - Organochlorine Pesticides/PCBs Low Lvl~~	~~EPA 608~~	~~1~~	~~15~~
~~EPA 624 - Volatile Organic Compounds CTR~~	~~EPA 624~~	~~1~~	~~15~~
~~EPA 625 - Semivolatile Organic Compounds CTR~~	~~EPA 625~~	~~1~~	~~15~~
EPA 8015B - Diesel & Oil Range Organics (DRO/ORO)	EPA 8015B	1	15
~~EPA 8015B - Gasoline Range Organics (GRO)~~	~~EPA 8015B~~	~~1~~	~~15~~
Fecal Coliform by Enumeration SM9221E 3 dilutions	SM 9221E	1	15
~~Field Temperature, Degrees F~~	~~Field~~	~~1~~	~~15~~
~~Fluoride - EPA 300.0~~	~~EPA 300.0~~	~~1~~	~~15~~
Iron - EPA 200.8	EPA 200.8	1	15
Iron, dissolved - EPA 200.8	EPA 200.8	1	15

Bid Project: AEI-CASC Consulting - MS4 - Storm Water Monitoring 2015-2016

Code	Method	Qty	TAT (workdays)
Lead - EPA 200.8	EPA 200.8	1	15
Lead, dissolved - EPA 200.8	EPA 200.8	1	15
MBAS - SM 5540 C	SM 5540C	1	15
Mercury, Diss, low-level - EPA 1631E	EPA 1631E	1	15
Mercury, total, low-level - EPA 1631E	EPA 1631E	1	15
Nickel - EPA 200.8	EPA 200.8	1	15
Nickel, dissolved - EPA 200.8	EPA 200.8	1	15
Nitrite+Nitrate-N - EPA 300.0	EPA 300.0	1	15
~~Oil and Grease - EPA 1664A~~	~~EPA 1664A~~	~~1~~	~~15~~
PAHs low level in water by GC/MS/MS	GC/MS/MS	1	15
~~PCB Congener (56) by GCMS-SIM~~	~~GC/MS/MS~~	~~1~~	~~15~~
~~Perchlorate - EPA 314.0~~	~~EPA 314.0~~	~~1~~	~~15~~
~~pH - SM 4500 H B~~	~~SM 4500H+ B~~	~~1~~	~~15~~
Phenolics in water - EPA 420.4	EPA 420.4	1	15
Phosphorus Dissolved - EPA 365.3	EPA 365.3	1	15
Phosphorus, Total as P - EPA 365.1	EPA 365.1	1	15
~~Selenium - EPA 200.8~~	~~EPA 200.8~~	~~1~~	~~15~~
~~Selenium, dissolved - EPA 200.8~~	~~EPA 200.8~~	~~1~~	~~15~~
~~Silver - EPA 200.8~~	~~EPA 200.8~~	~~1~~	~~15~~
~~Silver, dissolved - EPA 200.8~~	~~EPA 200.8~~	~~1~~	~~15~~
Specific Conductance (EC) - SM 2510B	SM 2510B	1	15
Sulfate - EPA 300.0	EPA 300.0	1	15
~~Thallium - EPA 200.8~~	~~EPA 200.8~~	~~1~~	~~15~~
~~Thallium, dissolved - EPA 200.8~~	~~EPA 200.8~~	~~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			
Extra per micro dilution		1	
Filtration Fee		1	

200.7 Hardness consists of:
Calcium - EPA 200.7

Comments:
Weekend charge $75.00 and holiday charge is $150.00 per day per batch of microbiological samples check