

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986
812 SW Harvey Green Dr, Madison, FL 32340
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)
Phone: 772-343-8006 E86562 (South Lab)
Phone: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 E35834 (Keys Lab)

Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

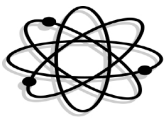
PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 14, 2017
Mar 10, 2017; Invoice: 323470

Report Summary

Date Received: Feb 14, 2017

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
323470SW1	C-23	COLILERT-18	TDC	Keys Lab	Surface Water
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
SM5310 C	PCW	Main Lab			
323470SW2	C-22	TotNit			Surface Water
		COLILERT-18	TDC	Keys Lab	
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
SM4500-CI E	VLB	Main Lab			
SM5310 C	PCW	Main Lab			
323470SW3	C-21	TotNit			Surface Water
		COLILERT-18	TDC	Keys Lab	
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
EPA350.1	PCW	Main Lab			



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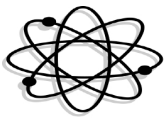
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		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
323470SW4	CK-5	COLILERT-18	TDC	Keys Lab	Surface Water
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
323470SW5	CK-8	COLILERT-18	TDC	Keys Lab	Surface Water
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	



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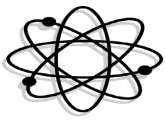
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323470SW6	CK-14	TotNit			
		COLILERT-18	TDC	Keys Lab	Surface Water
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
SM4500-CI E	VLB	Main Lab			
SM5310 C	PCW	Main Lab			
323470SW7	C-26	TotNit			
		COLILERT-18	TDC	Keys Lab	Surface Water
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
SM4500-CI E	VLB	Main Lab			
SM5310 C	PCW	Main Lab			
323470SW8	CK-1	TotNit			
		COLILERT-18	TDC	Keys Lab	Surface Water
		ENTEROLERT	TDC	Keys Lab	
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	
EPA375.2	PCW	Main Lab			



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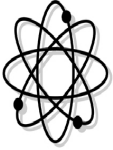
FDEP DEP-SOP	PCW	Main Lab
OrgNit		
SM10200 H	TRB	Main Lab
SM2540 C	PLB	Main Lab
SM2540 D	TDC	Keys Lab
SM4500-CI E	VLB	Main Lab
SM5310 C	PCW	Main Lab
TotNit		

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAP Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director



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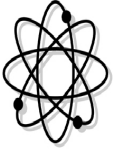
Florida Keys Aqueduct Authority-WWTP
 3375 Overseas Hwy
 Marathon, FL 33050

PO #: 16975
 Client Project #: Cudjoe Key WWTP -Q- SW's
 Date Sampled: Feb 14, 2017
 Mar 10, 2017; Invoice: 323470

Analysis Report

Lab #: 323470SW1 Sampled: 02/14/17 07:15 AM Desc: C-23

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.680		0				OrgNit		
Total Nitrogen(as N)	0.680		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	25.6	mg/L	1.00	1.00	2.00	10333538	SM2540 D	E1642818	02/14/17
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10333602	COLILERT-18	E761792	02/14/17 02:50 PM
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333657	ENTEROLERT		02/14/17 12:35 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333725	EPA245.1	7439-97-6	02/16/17
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10333747	EPA200.8	7429-90-5	02/15/17
Arsenic	0.00330	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-38-2	02/15/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10333747	EPA200.8	7440-43-9	02/15/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-47-3	02/15/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7439-92-1	02/15/17
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-02-0	02/15/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10333747	EPA200.8	7440-66-6	02/15/17
Iron	0.0130 l	mg/L	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
TDS	34900	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
Chloride	20000	mg/L	300	1200	2400	10333932	SM4500-CIE	16887-00-6	02/17/17
Chlorophyll a	0.120 l	ug/L	1.00	0.0200	0.150	10334071	SM10200 H	479-61-8	02/14/17
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
TKN(as N)	0.680	mg/L	1.00	0.200	0.400	10334140	EPA351.2	7727-37-9	02/21/17
Total Phosphorus(as P)	0.0105	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10334716	EPA350.1	7684-41-7	02/28/17
TOC	1.00 U	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
Sulfate	3030	mg/L	30.0	150	300	10335456	EPA375.2	14808-79-8	03/09/17



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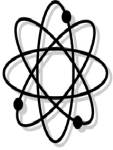
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PO #: 16975
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 Date Sampled: Feb 14, 2017
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Lab #:	323470SW2	Sampled:	02/14/17 07:25 AM	Desc:	C-22				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.365		0				OrgNit		
Total Nitrogen(as N)	0.376		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100	U	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	26.2	mg/L	1.00	1.00	2.00	10333538	SM2540 D	E1642818	02/14/17
Fecal Coliform	1.00	U	1.00	1.00	1.00	10333602	COLILERT-18	E761792	02/14/17 02:50 PM
Enterococci	10.0	U	10.0	10.0	10.0	10333657	ENTEROLERT		02/14/17 12:35 PM
Mercury	0.000200	U	1.00	0.000200	0.000400	10333725	EPA245.1	7439-97-6	02/16/17
Aluminum	0.0100	U	1.00	0.0100	0.0200	10333747	EPA200.8	7429-90-5	02/15/17
Arsenic	0.00370	U	1.00	0.00100	0.00200	10333747	EPA200.8	7440-38-2	02/15/17
Cadmium	0.000200	U	1.00	0.000200	0.000400	10333747	EPA200.8	7440-43-9	02/15/17
Chromium	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7440-47-3	02/15/17
Lead	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7439-92-1	02/15/17
Nickel	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7440-02-0	02/15/17
Zinc	0.0100	U	1.00	0.0100	0.0200	10333747	EPA200.8	7440-66-6	02/15/17
Iron	0.0100	U	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
TDS	35300	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
Chloride	20900	mg/L	300	1200	2400	10333932	SM4500-CIE	16887-00-6	02/17/17
Chlorophyll a	0.140	I	1.00	0.0200	0.150	10334071	SM10200 H	479-61-8	02/14/17
Nitrate(as N)	0.0110	I	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200	U	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
TKN(as N)	0.365	I	1.00	0.200	0.400	10334140	EPA351.2	7727-37-9	02/21/17
Total Phosphorus(as P)	0.0102	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.00200	U	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	0.0100	U	1.00	0.0100	0.0200	10334716	EPA350.1	7664-41-7	02/28/17
TOC	1.00	U	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
Sulfate	3840	mg/L	30.0	150	300	10335456	EPA375.2	14808-79-8	03/09/17

Lab #:	323470SW3	Sampled:	02/14/17 07:50 AM	Desc:	C-21				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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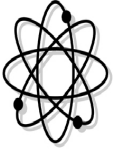
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 Date Sampled: Feb 14, 2017
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Lab #:	323470SW3	Sampled:	02/14/17 07:50 AM	Desc:	C-21				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.325		0				OrgNit		
Total Nitrogen(as N)	0.341		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100	U	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	27.0	mg/L	1.00	1.00	2.00	10333538	SM2540 D	E1642818	02/14/17
Fecal Coliform	1.00	U	1.00	1.00	1.00	10333602	COLILERT-18	E761792	02/14/17 02:50 PM
Enterococci	10.0	U	10.0	10.0	10.0	10333657	ENTEROLERT		02/14/17 12:35 PM
Mercury	0.000200	U	1.00	0.000200	0.000400	10333725	EPA245.1	7439-97-6	02/16/17
Aluminum	0.0100	U	1.00	0.0100	0.0200	10333747	EPA200.8	7429-90-5	02/15/17
Arsenic	0.00410	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-38-2	02/15/17
Cadmium	0.000200	U	1.00	0.000200	0.000400	10333747	EPA200.8	7440-43-9	02/15/17
Chromium	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7440-47-3	02/15/17
Lead	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7439-92-1	02/15/17
Nickel	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7440-02-0	02/15/17
Zinc	0.0100	U	1.00	0.0100	0.0200	10333747	EPA200.8	7440-66-6	02/15/17
Iron	0.0100	U	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
TDS	37200	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
Chloride	19700	mg/L	300	1200	2400	10333932	SM4500-CIE	16887-00-6	02/17/17
Chlorophyll a	0.130	I	1.00	0.0200	0.150	10334071	SM10200 H	479-61-8	02/14/17
Nitrate(as N)	0.0168	I	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200	U	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
TKN(as N)	0.325	I	1.00	0.200	0.400	10334140	EPA351.2	7727-37-9	02/21/17
Total Phosphorus(as P)	0.0307	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.00200	U	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	0.0100	U	1.00	0.0100	0.0200	10334716	EPA350.1	7664-41-7	02/28/17
TOC	1.00	U	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
Sulfate	3720	mg/L	30.0	150	300	10335456	EPA375.2	14808-79-8	03/09/17

Lab #:	323470SW4	Sampled:	02/14/17 08:10 AM	Desc:	CK-5				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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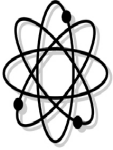
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Florida Keys Aqueduct Authority-WWTP
 3375 Overseas Hwy
 Marathon, FL 33050

PO #: 16975
 Client Project #: Cudjoe Key WWTP -Q- SW's
 Date Sampled: Feb 14, 2017
 Mar 10, 2017; Invoice: 323470

Lab #:	323470SW4	Sampled:	02/14/17 08:10 AM	Desc:	CK-5				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.353		0				OrgNit		
Total Nitrogen(as N)	0.365		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100	U	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	29.2	mg/L	1.00	1.00	2.00	10333538	SM2540 D	E1642818	02/14/17
Fecal Coliform	1.11	mpn/100mL	1.00	1.00	1.00	10333602	COLILERT-18	E761792	02/14/17 02:50 PM
Enterococci	10.0	U	10.0	10.0	10.0	10333657	ENTEROLERT		02/14/17 12:35 PM
Mercury	0.000200	U	1.00	0.000200	0.000400	10333725	EPA245.1	7439-97-6	02/16/17
Aluminum	0.0100	U	1.00	0.0100	0.0200	10333747	EPA200.8	7429-90-5	02/15/17
Arsenic	0.00370	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-38-2	02/15/17
Cadmium	0.000200	U	1.00	0.000200	0.000400	10333747	EPA200.8	7440-43-9	02/15/17
Chromium	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7440-47-3	02/15/17
Lead	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7439-92-1	02/15/17
Nickel	0.00100	U	1.00	0.00100	0.00200	10333747	EPA200.8	7440-02-0	02/15/17
Zinc	0.0100	U	1.00	0.0100	0.0200	10333747	EPA200.8	7440-66-6	02/15/17
Iron	0.0100	U	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
TDS	36900	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
Chloride	19100	mg/L	300	1200	2400	10333932	SM4500-CIE	16887-00-6	02/17/17
Chlorophyll a	0.120	I	1.00	0.0200	0.150	10334071	SM10200 H	479-61-8	02/14/17
Nitrate(as N)	0.0116	I	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200	U	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
TKN(as N)	0.353	I	1.00	0.200	0.400	10334140	EPA351.2	7727-37-9	02/21/17
Total Phosphorus(as P)	0.0143	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.00200	U	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	0.0100	U	1.00	0.0100	0.0200	10334716	EPA350.1	7664-41-7	02/28/17
TOC	1.00	U	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
Sulfate	3660	mg/L	30.0	150	300	10335456	EPA375.2	14808-79-8	03/09/17

Lab #:	323470SW5	Sampled:	02/14/17 08:30 AM	Desc:	CK-8				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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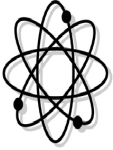
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Florida Keys Aqueduct Authority-WWTP
 3375 Overseas Hwy
 Marathon, FL 33050

PO #: 16975
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 Date Sampled: Feb 14, 2017
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Lab #:	323470SW5	Sampled:	02/14/17 08:30 AM	Desc:	CK-8	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Parameter						0.310		0				OrgNit		
Organic Nitrogen						0.324		0				TotNit	17778-88-0	
Total Nitrogen(as N)						0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
Unionized NH3(as N)						26.8	mg/L	1.00	1.00	2.00	10333538	SM2540 D	E1642818	02/14/17
TSS						1.00 U	mpn/100mL	1.00	1.00	1.00	10333602	COLILERT-18	E761792	02/14/17 02:50 PM
Fecal Coliform						10.0 U	mpn/100mL	10.0	10.0	10.0	10333657	ENTEROLERT		02/14/17 12:35 PM
Enterococci						0.000200 U	mg/L	1.00	0.000200	0.000400	10333725	EPA245.1	7439-97-6	
Mercury						0.0100 U	mg/L	1.00	0.0100	0.0200	10333747	EPA200.8	7429-90-5	
Aluminum						0.00480	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-38-2	
Arsenic						0.000200 U	mg/L	1.00	0.000200	0.000400	10333747	EPA200.8	7440-43-9	
Cadmium						0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-47-3	
Chromium						0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7439-92-1	
Lead						0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-02-0	
Nickel						0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-66-6	
Zinc						0.0100 U	mg/L	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	
Iron						0.0100 U	mg/L	1.00	0.0100	0.0200	10333905	SM2540 C	10-33-3	
TDS						36900	mg/L	1.00	2.50	5.00	10333932	SM4500-CIE	16887-00-6	
Chloride						21700	mg/L	300	1200	2400	10334071	SM10200 H	479-61-8	
Chlorophyll a						0.140 l	ug/L	1.00	0.0200	0.150	10334087	EPA353.2	14797-55-8	02/14/17
Nitrate(as N)						0.0143 l	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)						0.0200 U	mg/L	1.00	0.0200	0.0400	10334140	EPA351.2	14797-65-0	02/15/17 06:44 AM
Nitrite(as N)						0.310 l	mg/L	1.00	0.200	0.400	10334368	EPA365.1	7727-37-9	02/21/17
TKN(as N)						0.00833	mg/L	1.00	0.00200	0.00400	10334627	EPA365.1	7723-14-0	02/23/17
Total Phosphorus(as P)						0.00200 U	mg/L	1.00	0.00200	0.00400	10335174	SM5310 C	14265-44-2	02/15/17 06:44 AM
Orthophosphate(as P)						1.00 U	mg/L	1.00	1.00	2.00	10335456	EPA375.2	E701250	03/07/17
TOC						3570	mg/L	30.0	150	300	10335663	EPA350.1	7664-41-7	03/09/17
Sulfate						0.0100 U	mg/L	1.00	0.0100	0.0200				03/02/17
Ammonia (as N)														

Lab #:	323470SW6	Sampled:	02/14/17 09:00 AM	Desc:	CK-14	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Parameter														



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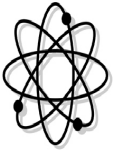
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Florida Keys Aqueduct Authority-WWTP
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PO #: 16975
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 Mar 10, 2017; Invoice: 323470

Lab #: 323470SW6 Sampled: 02/14/17 09:00 AM Desc: CK-14

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.276		0				OrgNit		
Total Nitrogen(as N)	0.288		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	26.6	mg/L	1.00	1.00	2.00	10333538	SM2540 D	E1642818	02/14/17
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10333602	COLILERT-18	E761792	02/14/17 02:50 PM
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333657	ENTEROLERT		02/14/17 12:35 PM
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10333726	EPA245.1	7439-97-6	02/16/17
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10333747	EPA200.8	7429-90-5	02/15/17
Arsenic	0.00420	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-38-2	02/15/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10333747	EPA200.8	7440-43-9	02/15/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-47-3	02/15/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7439-92-1	02/15/17
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10333747	EPA200.8	7440-02-0	02/15/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10333747	EPA200.8	7440-66-6	02/15/17
Iron	0.0179 I	mg/L	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
TDS	35600	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
Chloride	19400	mg/L	300	1200	2400	10333932	SM4500-CIE	16887-00-6	02/17/17
Chlorophyll a	0.130 I	ug/L	1.00	0.0200	0.150	10334071	SM10200 H	479-61-8	02/14/17
Nitrate(as N)	0.0119 I	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
TKN(as N)	0.276 I	mg/L	1.00	0.200	0.400	10334140	EPA351.2	7727-37-9	02/21/17
Total Phosphorus(as P)	0.0110	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17



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Quality Report

Quality Control Batch: 10274203 **Analyst:** PCW
Blank **Result** **Units**
 Unionized NH3(as N) 0.000100U mg/L

Quality Control Batch: 10333538 **Analyst:** TDC
Blank **Result** **Units**
 TSS 1.00U mg/L

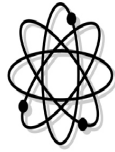
Laboratory Control Sample **Result** **Units** **Spike** **%REC** **%REC Lim**
 TSS 100 mg/L 100 100.00 50.00-150.00

Quality Control Batch: 10333602 **Analyst:** TDC
Blank **Result** **Units**
 Fecal Coliform 1.00U mpn/100mL

Quality Control Batch: 10333657 **Analyst:** TDC
Blank **Result** **Units**
 Enterococci 1.00U mpn/100mL

Quality Control Batch: 10333725 **Analyst:** EVB
Blank **Result** **Units**
 Mercury 0.0000200U mg/L

Laboratory Control Sample **Result** **Units** **Spike** **%REC** **%REC Lim**
 Mercury 0.00101 mg/L 0.00100 101.30 80.00-120.00



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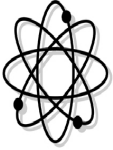
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Quality Control Batch: 10333725		Analyst: EVB					
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD Lim
Mercury	0.00336	mg/L	0.00300	111.39	80.00-120.00	0.0000143	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Mercury	0.00347	mg/L	0.00300	115.16	80.00-120.00	0.0000143	3.31
20.00							
Quality Control Batch: 10333726		Analyst: EVB					
Blank	Result	Units					
Mercury	0.0000200U	mg/L					
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Mercury	0.00106	mg/L	0.00100	106.30	80.00-120.00		
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Mercury	0.00313	mg/L	0.00300	103.89	80.00-120.00	0.0000143	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Mercury	0.00309	mg/L	0.00300	102.59	80.00-120.00	0.0000143	1.25
							20.00

Quality Control Batch: 10333747		Analyst: EVB					
Blank	Result	Units					
Aluminum	0.0100U	mg/L					
Arsenic	0.00100U	mg/L					
Cadmium	0.000200U	mg/L					
Chromium	0.00100U	mg/L					
Lead	0.00100U	mg/L					
Nickel	0.00100U	mg/L					
Zinc	0.0100U	mg/L					
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim	Sample	RPD



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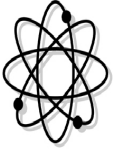
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Quality Control Batch: 10333747		Analyst: EVB	
Laboratory Control Sample			
	Result	Units	Spike
Aluminum	0.108	mg/L	0.100
Arsenic	0.0955	mg/L	0.100
Cadmium	0.0961	mg/L	0.100
Chromium	0.0895	mg/L	0.100
Lead	0.0956	mg/L	0.100
Nickel	0.108	mg/L	0.100
Zinc	0.107	mg/L	0.100
Matrix Spike			
	Result	Units	Spike
Aluminum	0.0967	mg/L	0.100
Arsenic	0.0821	mg/L	0.100
Cadmium	0.0859	mg/L	0.100
Chromium	0.0810	mg/L	0.100
Lead	0.0956	mg/L	0.100
Nickel	0.103	mg/L	0.100
Zinc	0.0761	mg/L	0.100
Matrix Spike Duplicate			
	Result	Units	Spike
Aluminum	0.107	mg/L	0.100
Arsenic	0.0894	mg/L	0.100
Cadmium	0.0911	mg/L	0.100
Chromium	0.0838	mg/L	0.100
Lead	0.0868	mg/L	0.100
Nickel	0.113	mg/L	0.100
Zinc	0.0772	mg/L	0.100
Quality Control Batch: 10333819			
Blank			
	Result	Units	
Iron	0.0100U	mg/L	

	Sample	RPD	RPD Lim
Aluminum	0.0100U	10.39	20.00
Arsenic	0.00300	8.51	20.00
Cadmium	0.000200U	5.88	20.00
Chromium	0.00100U	3.40	20.00
Lead	0.00100U	9.65	20.00
Nickel	0.00100U	9.62	20.00
Zinc	0.00230	1.44	20.00



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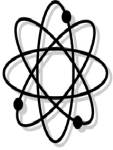
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3375 Overseas Hwy
Marathon, FL 33050

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 14, 2017
Mar 10, 2017; Invoice: 323470

Quality Control Batch: 10333819		Analyst: EVB	
Laboratory Control Sample	Iron	Result 5.17	Units mg/L
		Spike 5.00	%REC 103.45
		%REC Lim 85.00-115.00	Sample 0.0100U
Matrix Spike	Iron	Result 5.34	Units mg/L
		Spike 5.00	%REC 106.71
		%REC Lim 70.00-130.00	Sample 0.0100U
Matrix Spike Duplicate	Iron	Result 5.21	Units mg/L
		Spike 5.00	%REC 104.12
		%REC Lim 70.00-130.00	Sample 0.0100U
		RPD 2.45	RPD Lim 20.00

Quality Control Batch: 10333905		Analyst: PLB	
Blank	TDS	Result 2.50U	Units mg/L
Laboratory Control Sample	TDS	Result 1560	Units mg/L
		Spike 1500	%REC 104.00
		%REC Lim 50.00-150.00	

Quality Control Batch: 10333932		Analyst: VLB	
Blank	Chloride	Result 4.00U	Units mg/L
Laboratory Control Sample	Chloride	Result 206	Units mg/L
		Spike 200	%REC 102.77
		%REC Lim 80.00-120.00	
Matrix Spike	Chloride	Result 255	Units mg/L
		Spike 100	%REC 83.66
		%REC Lim 80.00-120.00	Sample 172
Matrix Spike Duplicate	Chloride	Result 238	Units mg/L
		Spike 100	%REC 66.11
		%REC Lim 80.00-120.00	Sample 172
		RPD 7.12	RPD Lim 20.00



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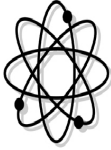
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Quality Control Batch: 10339333		Analyst: VLB	
Blank Chloride	Result 4.00U	Units mg/L	
Laboratory Control Sample Chloride	Result 198	Units mg/L	%REC 98.76
		Spike 200	%REC Lim 80.00-120.00
Matrix Spike Chloride	Result 126	Units mg/L	%REC 105.06
		Spike 100	%REC Lim 80.00-120.00
Matrix Spike Duplicate Chloride	Result 120	Units mg/L	%REC 99.02
		Spike 100	%REC Lim 80.00-120.00
		Sample 20.8	RPD 4.92
		Sample 20.8	RPD Lim 20.00

Quality Control Batch: 10334071		Analyst: TRB	
Blank Chlorophyll a	Result 0.0200U	Units ug/L	

Quality Control Batch: 10334087		Analyst: PCW	
Blank Nitrate(as N) Nitrite(as N)	Result 0.0100U 0.0200U	Units mg/L mg/L	
Laboratory Control Sample Nitrate(as N) Nitrite(as N)	Result 1.08 1.05	Units mg/L mg/L	%REC 108.00 105.00
		Spike 1.00 1.00	%REC Lim 85.00-115.00 85.00-115.00
Matrix Spike Nitrate(as N) Nitrite(as N)	Result 13.0 4.04	Units mg/L mg/L	%REC 95.88 100.57
		Spike 4.00 4.00	%REC Lim 85.00-115.00 85.00-115.00
		Sample 9.18	Sample 0.0190



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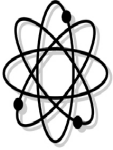
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrate(as N)	13.0	mg/L	4.00	95.92	85.00-115.00	9.18	0.01	20.00
Nitrite(as N)	4.03	mg/L	4.00	100.35	85.00-115.00	0.0190	0.22	20.00

Quality Control Batch: 10334140 Analyst: VLB

Blank	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.02	mg/L	3.00	100.56	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	4.03	mg/L	3.00	99.96	80.00-120.00	1.04	1.42	20.00
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	4.09	mg/L	3.00	101.88	80.00-120.00	1.04	1.42	20.00

Quality Control Batch: 10334368 Analyst: CCP

Blank	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.00200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.465	mg/L	0.500	92.98	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.196	mg/L	0.200	93.72	85.00-115.00	0.00833	0.83	20.00
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.197	mg/L	0.200	94.54	85.00-115.00	0.00833	0.83	20.00



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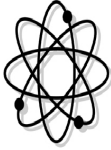
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Quality Control Batch: 10334627		Analyst: PCW	
Blank	Result	Units	
Orthophosphate(as P)	0.00200U	mg/L	
Laboratory Control Sample	Result	Units	
Orthophosphate(as P)	1.02	mg/L	Spike 1.00 %REC 102.00 %REC Lim 85.00-115.00
Matrix Spike	Result	Units	
Orthophosphate(as P)	4.51	mg/L	Spike 0.500 %REC 72.00 %REC Lim 85.00-115.00 Sample 4.15
Matrix Spike Duplicate	Result	Units	
Orthophosphate(as P)	4.52	mg/L	Spike 0.500 %REC 74.00 %REC Lim 85.00-115.00 Sample 4.15 RPD 0.22 RPD Lim 20.00

Quality Control Batch: 10334716		Analyst: PCW	
Blank	Result	Units	
Ammonia (as N)	0.0100U	mg/L	
Laboratory Control Sample	Result	Units	
Ammonia (as N)	0.440	mg/L	Spike 0.500 %REC 88.00 %REC Lim 85.00-115.00
Matrix Spike	Result	Units	
Ammonia (as N)	0.880	mg/L	Spike 0.780 %REC 112.82 %REC Lim 85.00-115.00 Sample 0.0100U
Matrix Spike Duplicate	Result	Units	
Ammonia (as N)	0.882	mg/L	Spike 0.780 %REC 113.08 %REC Lim 85.00-115.00 Sample 0.0100U RPD 0.23 RPD Lim 20.00

Quality Control Batch: 10335174		Analyst: PCW	
Blank	Result	Units	
TOC	1.00U	mg/L	
Laboratory Control Sample	Result	Units	
			Spike %REC %REC Lim



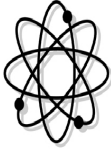
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Quality Control Batch: 10335174		Analyst: PCW	
Laboratory Control Sample	Result	Units	Spike
TOC	10.9	mg/L	10.0
			%REC
			108.51
			%REC Lim
			80.00-120.00
Matrix Spike	Result	Units	Spike
TOC	19.6	mg/L	10.0
			%REC
			78.41
			%REC Lim
			80.00-120.00
Matrix Spike Duplicate	Result	Units	Spike
TOC	20.4	mg/L	10.0
			%REC
			86.77
			%REC Lim
			80.00-120.00
			RPD
			4.18
			RPD Lim
			20.00
Quality Control Batch: 10335456		Analyst: PCW	
Blank	Result	Units	
Sulfate	5.00U	mg/L	
Laboratory Control Sample	Result	Units	Spike
Sulfate	63.6	mg/L	60.0
			%REC
			106.00
			%REC Lim
			85.00-115.00
Matrix Spike	Result	Units	Spike
Sulfate	65.7	mg/L	50.0
			%REC
			93.20
			%REC Lim
			85.00-115.00
			Sample
			19.1
Matrix Spike Duplicate	Result	Units	Spike
Sulfate	62.2	mg/L	50.0
			%REC
			86.20
			%REC Lim
			85.00-115.00
			Sample
			19.1
			RPD
			5.47
			RPD Lim
			20.00
Quality Control Batch: 10335663		Analyst: PCW	
Blank	Result	Units	
Ammonia (as N)	0.0100U	mg/L	
Laboratory Control Sample	Result	Units	Spike
Ammonia (as N)	0.486	mg/L	0.500
			%REC
			97.20
			%REC Lim
			85.00-115.00
Matrix Spike	Result	Units	Spike
			%REC
			%REC Lim
			Sample



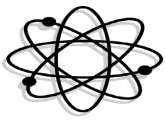
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Quality Control Batch: 10335663		Analyst: PCW	
Matrix Spike Ammonia (as N)	Result 2.50	Units mg/L	Spike 0.780
		%REC 89.74	%REC Lim 85.00-115.00
Matrix Spike Duplicate Ammonia (as N)	Result 2.50	Units mg/L	Spike 0.780
		%REC 89.74	%REC Lim 85.00-115.00
		Sample 1.80	RPD 0.00
		Sample 1.80	RPD Lim 20.00



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments

There are no attachments.

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.