



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

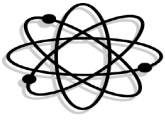
PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: Aug 17, 2016
Aug 25, 2016; Invoice: 307203

Report Summary

Date Received: Aug 17, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
307203SW1	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	PCW	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	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
307203SW2	C-22	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	PCW	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	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
307203SW3	C-21	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	



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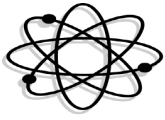
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3375 Overseas Hwy
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		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
307203SW4	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	PCW	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	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
307203SW5	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	PCW	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	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	



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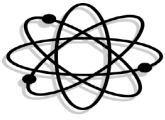
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Marathon, FL 33050

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307203SW6	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	PCW	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	PLB	Main Lab			
SM4500-CI E	VLB	Main Lab			
SM5310 C	PCW	Main Lab			
307203SW7	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	PCW	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	PLB	Main Lab			
SM4500-CI E	VLB	Main Lab			
SM5310 C	PCW	Main Lab			
307203SW8	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	PCW	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	PLB	Main 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 NELAC 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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Analysis Report

Lab #:	Sampled:	Desc:							
307203SW1	08/17/16 07:40 AM	C-23							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.409		0				OrgNit		
Total Nitrogen(as N)	0.409		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	2.00	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00 U	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.146	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00560	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Chloride	20000	mg/L	300	1200	2400	10319092	SM4500-CI E	16887-00-6	08/19/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	15.2	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	35100	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2480	mg/L	20.0	100	200	10319429	EPA375.2	14808-79-8	08/24/16
TOC	1.00 U	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.290	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.409 J	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16



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 Marathon, FL 33050

PO #: 15350
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 Date Sampled: Aug 17, 2016
 Aug 25, 2016; Invoice: 307203

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.204		0				OrgNit		
Total Nitrogen(as N)	0.204		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00 U	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.110	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00530	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Chloride	19100	mg/L	300	1200	2400	10319092	SM4500-CI E	16887-00-6	08/19/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	14.5	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	36400	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2540	mg/L	20.0	100	200	10319429	EPA375.2	14808-69-8	08/24/16
TOC	1.00 U	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.210	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.204 I	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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Lab #:	Sampled:	Desc:							
307203SW3	08/17/16 08:10 AM	C-21							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0		0				OrgNit		
Total Nitrogen(as N)	0		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	2.00	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00 U	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.134	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00510	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Chloride	19500	mg/L	300	1200	2400	10319092	SM4500-CI E	16887-00-6	08/19/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	19.7	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	33500	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2500	mg/L	20.0	100	200	10319429	EPA375.2	14808-69-8	08/24/16
TOC	1.55 I	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.180	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.200 U	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16

Lab #:	Sampled:	Desc:							
307203SW4	08/17/16 08:25 AM	CK-5							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



FLOWERS CHEMICAL LABORATORIES INC.

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 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 15350
 Client Project #: Cudjoe Key -Q- SW
 Date Sampled: Aug 17, 2016
 Aug 25, 2016; Invoice: 307203

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0		0				OrgNit		
Total Nitrogen(as N)	0		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00 U	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0220	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.115	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00500	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Chloride	18600	mg/L	300	1200	2400	10319092	SM4500-CI E	16887-00-6	08/19/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	13.7	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	34000	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2580	mg/L	20.0	100	200	10319429	EPA375.2	14808-69-8	08/24/16
TOC	1.00 U	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.210	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.200 U	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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

PO #: 15350
 Client Project #: Cudjoe Key -Q- SW
 Date Sampled: Aug 17, 2016
 Aug 25, 2016; Invoice: 307203

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0		0				OrgNit		
Total Nitrogen(as N)	0.0193		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00 U	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0193 I	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.103	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00530	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Chloride	19500	mg/L	300	1200	2400	10319255	SM4500-CI E	16887-00-6	08/19/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	15.2	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	37200	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2600	mg/L	20.0	100	200	10319429	EPA375.2	14808-79-8	08/24/16
TOC	1.18 I	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.220	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.200 U	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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

PO #: 15350
 Client Project #: Cudjoe Key -Q- SW
 Date Sampled: Aug 17, 2016
 Aug 25, 2016; Invoice: 307203

Lab #: 307203SW6 Sampled: 08/17/16 09:05 AM Desc: CK-14									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0		0				OrgNit		
Total Nitrogen(as N)	0.0529		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0529	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.126	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00570	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Chloride	20400	mg/L	300	1200	2400	10319223	SM4500-CI E	16887-00-6	08/19/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	13.7	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	38200	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2480	mg/L	20.0	100	200	10319429	EPA375.2	14808-79-8	08/24/16
TOC	1.00 U	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.280	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.200 U	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16

Lab #: 307203SW7 Sampled: 08/17/16 09:20 AM Desc: C-26									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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

PO #: 15350
 Client Project #: Cudjoe Key -Q- SW
 Date Sampled: Aug 17, 2016
 Aug 25, 2016; Invoice: 307203

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0		0				OrgNit		
Total Nitrogen(as N)	0.0196		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00 U	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0196 I	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.0887	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00500	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Chloride	21600	mg/L	300	1200	2400	10319223	SM4500-CI E	16887-00-6	08/19/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	13.3	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	35900	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2380	mg/L	20.0	100	200	10319429	EPA375.2	14808-79-8	08/24/16
TOC	1.06 I	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.250	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.200 U	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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

PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: Aug 17, 2016
Aug 25, 2016; Invoice: 307203

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.409		0				OrgNit		
Total Nitrogen(as N)	0.409		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/23/16
Fecal Coliform	1.00	mpn/100mL	1.00	1.00	1.00	10318855	COLILERT-18	E761792	08/17/16 03:00 PM
Enterococci	1.00 U	mpn/100mL	1.00	1.00	1.00	10318878	ENTEROLERT		08/17/16 12:25 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318918	EPA365.1	14265-44-2	08/18/16 01:22 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10318927	EPA353.2	14797-55-8	08/18/16 11:42 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10318927	EPA353.2	14797-65-0	08/18/16 11:42 AM
Aluminum	0.171	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7429-90-5	08/18/16
Arsenic	0.00420	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-38-2	08/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318986	EPA200.8	7440-43-9	08/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-47-3	08/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7439-92-1	08/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318986	EPA200.8	7440-02-0	08/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318986	EPA200.8	7440-66-6	08/18/16
Iron	0.0179 I	mg/L	1.00	0.0100	0.0200	10319142	EPA200.7	7439-89-6	08/18/16
Chloride	23400	mg/L	300	1200	2400	10319223	SM4500-CI E	16887-00-6	08/19/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319303	EPA350.1	7664-41-7	08/23/16
TSS	20.8	mg/L	1.00	1.00	2.00	10319306	SM2540 D	E1642818	08/20/16
TDS	39100	mg/L	1.00	2.50	5.00	10319307	SM2540 C	10-33-3	08/19/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10319347	EPA245.1	7439-97-6	08/23/16
Sulfate	2040	mg/L	20.0	100	200	10319429	EPA375.2	14808-79-8	08/24/16
TOC	2.57	mg/L	1.00	1.00	2.00	10319445	SM5310 C	E701250	08/23/16
Chlorophyll a	0.370	ug/L	1.00	0.0200	0.150	10319455	SM10200 H	479-61-8	08/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319475	EPA365.1	7723-14-0	08/25/16
TKN(as N)	0.409	mg/L	1.00	0.200	0.400	10319547	EPA351.2	7727-37-9	08/25/16



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

PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: Aug 17, 2016
Aug 25, 2016; Invoice: 307203

Quality Report

Quality Control Batch: 10274203		Analyst: PCW						
Blank	Result	Units						
Unionized NH3(as N)	0.000100U	mg/L						
Quality Control Batch: 10318855		Analyst: TDC						
Blank	Result	Units						
Fecal Coliform	1.00U	mpn/100mL						
Quality Control Batch: 10318878		Analyst: TDC						
Blank	Result	Units						
Enterococci	1.00U	mpn/100mL						
Quality Control Batch: 10318918		Analyst: PCW						
Blank	Result	Units						
Orthophosphate(as P)	0.00200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Orthophosphate(as P)	1.09	mg/L	1.00	109.18	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Orthophosphate(as P)	0.485	mg/L	0.500	97.05	85.00-115.00	0.00200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Orthophosphate(as P)	0.486	mg/L	0.500	97.29	85.00-115.00	0.00200U	0.24	20.00



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

PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: Aug 17, 2016
Aug 25, 2016; Invoice: 307203

Quality Control Batch: 10318927 Analyst: PCW

Blank	Result	Units
Nitrate(as N)	0.0100U	mg/L
Nitrite(as N)	0.0200U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Nitrate(as N)	1.05	mg/L	1.00	105.00	90.00-110.00
Nitrite(as N)	1.07	mg/L	1.00	107.00	90.00-110.00

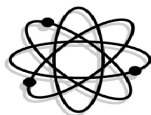
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Nitrite(as N)	4.29	mg/L	4.00	107.25	80.00-120.00	0.0200U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrite(as N)	4.29	mg/L	4.00	107.25	80.00-120.00	0.0200U	0.00	20.00

Quality Control Batch: 10318986 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
Aluminum	0.109	mg/L	0.100	108.80	85.00-115.00
Arsenic	0.0984	mg/L	0.100	98.40	85.00-115.00
Cadmium	0.105	mg/L	0.100	104.60	85.00-115.00
Chromium	0.0943	mg/L	0.100	94.30	85.00-115.00
Lead	0.108	mg/L	0.100	108.20	85.00-115.00



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3375 Overseas Hwy
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Aug 25, 2016; Invoice: 307203

Quality Control Batch: 10318986		Analyst: EVB							
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Nickel		0.107	mg/L	0.100	106.70	85.00-115.00			
Zinc		0.106	mg/L	0.100	105.50	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Aluminum		0.0940	mg/L	0.100	94.00	70.00-130.00	0.0100U		
Arsenic		0.112	mg/L	0.100	112.00	70.00-130.00	0.00100U		
Cadmium		0.121	mg/L	0.100	121.30	70.00-130.00	0.000200U		
Chromium		0.0893	mg/L	0.100	89.30	70.00-130.00	0.00100U		
Lead		0.111	mg/L	0.100	110.50	70.00-130.00	0.00100U		
Nickel		0.108	mg/L	0.100	108.00	70.00-130.00	0.00100U		
Zinc		0.144	mg/L	0.100	110.90	70.00-130.00	0.0330		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum		0.0998	mg/L	0.100	99.80	70.00-130.00	0.0100U	5.99	20.00
Arsenic		0.111	mg/L	0.100	111.00	70.00-130.00	0.00100U	0.90	20.00
Cadmium		0.124	mg/L	0.100	123.50	70.00-130.00	0.000200U	1.80	20.00
Chromium		0.0883	mg/L	0.100	88.30	70.00-130.00	0.00100U	1.13	20.00
Lead		0.114	mg/L	0.100	113.80	70.00-130.00	0.00100U	2.94	20.00
Nickel		0.108	mg/L	0.100	108.40	70.00-130.00	0.00100U	0.37	20.00
Zinc		0.142	mg/L	0.100	109.30	70.00-130.00	0.0330	1.12	20.00

Quality Control Batch: 10319092		Analyst: VLB					
Blank		Result	Units				
Chloride		4.00U	mg/L				
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim	
Chloride		200	mg/L	200	100.00	80.00-120.00	
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample



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3375 Overseas Hwy
Marathon, FL 33050

PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: Aug 17, 2016
Aug 25, 2016; Invoice: 307203

Quality Control Batch: 10319092		Analyst: VLB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	174	mg/L	100	86.41	80.00-120.00	88.0		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	178	mg/L	100	90.33	80.00-120.00	88.0	2.22	20.00
Quality Control Batch: 10319142		Analyst: EVB						
Blank	Result	Units						
Iron	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Iron	5.10	mg/L	5.00	101.92	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Iron	4.07	mg/L	5.00	81.44	70.00-130.00	0.0100U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	4.02	mg/L	5.00	80.36	70.00-130.00	0.0100U	1.34	40.00
Quality Control Batch: 10319223		Analyst: VLB						
Blank	Result	Units						
Chloride	4.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chloride	202	mg/L	200	100.88	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	144	mg/L	100	97.67	80.00-120.00	46.7		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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Aug 25, 2016; Invoice: 307203

Quality Control Batch: 10319223		Analyst: VLB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	142	mg/L	100	95.47	80.00-120.00	46.7	1.54	20.00
Quality Control Batch: 10319255		Analyst: VLB						
Blank	Result	Units						
Chloride	4.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chloride	200	mg/L	200	100.00	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	174	mg/L	100	86.41	80.00-120.00	88.0		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	178	mg/L	100	90.33	80.00-120.00	88.0	2.22	20.00
Quality Control Batch: 10319303		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.467	mg/L	0.500	93.40	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.659	mg/L	0.780	84.49	85.00-115.00	0.0100U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.675	mg/L	0.780	86.54	85.00-115.00	0.0100U	2.40	20.00



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3375 Overseas Hwy
Marathon, FL 33050

PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: Aug 17, 2016
Aug 25, 2016; Invoice: 307203

Quality Control Batch: 10319306		Analyst: PLB	
Blank	Result	Units	
TSS	1.00U	mg/L	

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TSS	102	mg/L	100	102.00	50.00-150.00

Quality Control Batch: 10319307		Analyst: PLB	
Blank	Result	Units	
TDS	2.50U	mg/L	

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1420	mg/L	1500	94.67	50.00-150.00

Quality Control Batch: 10319347		Analyst: EVB	
Blank	Result	Units	
Mercury	0.00307	mg/L	

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.000924	mg/L	0.00100	92.38	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00315	mg/L	0.00300	104.53	80.00-120.00	0.0000152

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00318	mg/L	0.00300	105.33	80.00-120.00	0.0000152	0.76	20.00

Quality Control Batch: 10319429		Analyst: PCW	
Blank	Result	Units	



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Marathon, FL 33050

PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: Aug 17, 2016
Aug 25, 2016; Invoice: 307203

Quality Control Batch: 10319429		Analyst: PCW						
Blank	Result	Units						
Sulfate	5.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Sulfate	60.6	mg/L	60.0	101.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Sulfate	57.4	mg/L	50.0	96.68	85.00-115.00	9.06		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	57.2	mg/L	50.0	96.28	85.00-115.00	9.06	0.35	20.00
Quality Control Batch: 10319445		Analyst: PCW						
Blank	Result	Units						
TOC	1.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TOC	9.62	mg/L	10.0	96.16	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TOC	15.1	mg/L	10.0	90.32	80.00-120.00	6.04		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC	15.0	mg/L	10.0	89.57	80.00-120.00	6.04	0.50	20.00
Quality Control Batch: 10319455		Analyst: TRB						
Blank	Result	Units						
Chlorophyll a	0.0200U	ug/L						



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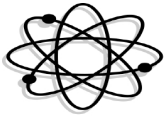
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Quality Control Batch: 10319475		Analyst: VLB						
Blank	Result	Units						
Total Phosphorus(as P)	0.00200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	0.579	mg/L	0.500	115.84	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.174	mg/L	0.200	85.86	85.00-115.00	0.00200		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.174	mg/L	0.200	86.21	85.00-115.00	0.00200	0.40	20.00
Quality Control Batch: 10319547		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.06	mg/L	3.00	102.13	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	2.56	mg/L	3.00	71.62	80.00-120.00	0.409		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	2.59	mg/L	3.00	72.73	80.00-120.00	0.409	1.30	20.00



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by FCL. 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.

Quality Control

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

Attachments

Chain of Custody
Field Data

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.