

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

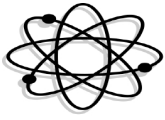
PO #: 15349
Client Project #: Cudjoe Key -Q- GW
Date Sampled: Aug 8, 2016
Aug 18, 2016; Invoice: 306392

Report Summary

Date Received: Aug 8, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
306392GW1	OW-1	EPA1600	TDC	Keys Lab	Ground Water
		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	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	TRB	Main Lab	
		SM2540 C	CLL	Main Lab	
		SM2540 D	CLL	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		306392GW2	OW-3	TotNit	
EPA1600	TDC			Keys 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	
EPA6010	EVB			Main Lab	
EPA6020	EVB			Main Lab	
EPA7470	EVB			Main Lab	
FDEP DEP-SOP	PCW			Main Lab	
SM10200 H	TRB			Main Lab	
SM2540 C	CLL			Main Lab	
SM2540 D	CLL			Main Lab	
SM4500-CI E	VLB			Main Lab	
SM5310 C	PCW			Main Lab	
SM9222 D	TDC			Keys Lab	
306392GW3	OW-5	TotNit			Ground Water
		EPA1600	TDC	Keys 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	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	



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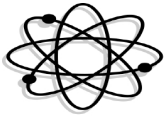
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		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	TRB	Main Lab	
		SM2540 C	CLL	Main Lab	
		SM2540 D	CLL	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
306392GW4	OW-4	EPA1600	TDC	Keys Lab	Ground Water
		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	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	TRB	Main Lab	
		SM2540 C	CLL	Main Lab	
		SM2540 D	CLL	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
306392GW5	OW-2	EPA1600	TDC	Keys Lab	Ground Water
		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	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	TRB	Main Lab	
		SM2540 C	CLL	Main Lab	
		SM2540 D	CLL	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			



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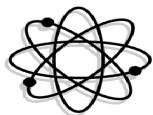
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Certificate of Results

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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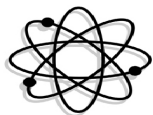
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Analysis Report

Lab #:	Sampled:	Desc:							
306392GW1	08/08/16 07:21 AM	OW-1							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.814		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/15/16
Enterococci	4.00	cfu/100mL	1.00	1.00	1.00	10318209	EPA1600		08/08/16 11:10 AM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10318211	SM9222 D	E761792	08/08/16 11:20 AM
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7429-90-5	08/09/16
Arsenic	0.00700	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-38-2	08/09/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318301	EPA6020	7440-43-9	08/09/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-47-3	08/09/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7439-92-1	08/09/16
Nickel	0.00520	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-02-0	08/09/16
Zinc	0.0110 I	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7440-66-6	08/09/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10318325	EPA7470	7439-97-6	08/09/16
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318345	EPA365.1	14265-44-2	08/09/16 03:57 PM
Iron	0.127	mg/L	1.00	0.0100	0.0200	10318410	EPA6010	7439-89-6	08/10/16
TSS	1.00 U	mg/L	1.00	1.00	2.00	10318487	SM2540 D	E1642818	08/10/16
TDS	1600	mg/L	1.00	2.50	5.00	10318495	SM2540 C	10-33-3	08/09/16
TOC	11.7	mg/L	1.00	1.00	2.00	10318548	SM5310 C	E701250	08/10/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10318681	EPA350.1	7664-41-7	08/15/16
Chloride	649	mg/L	3.00	12.0	24.0	10318743	SM4500-CI E	16887-00-6	08/16/16
Sulfate	168	mg/L	10.0	50.0	100	10318785	EPA375.2	14808-79-8	08/17/16
TKN(as N)	0.814	mg/L	1.00	0.200	0.400	10318843	EPA351.2	7727-37-9	08/16/16
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10319021	SM10200 H	479-61-8	08/07/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319271	EPA365.1	7723-14-0	08/23/16
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319574	EPA353.2	14797-55-8	08/09/16 03:20 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10319574	EPA353.2	14797-65-0	08/09/16 03:20 PM



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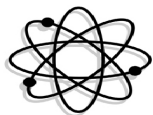
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 Marathon, FL 33050

PO #: 15349
 Client Project #: Cudjoe Key -Q- GW
 Date Sampled: Aug 8, 2016
 Aug 18, 2016; Invoice: 306392

Lab #: 306392GW2 Sampled: 08/08/16 07:21 AM Desc: OW-3									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	5.00		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.0137	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/15/16
Enterococci	200 Z	cfu/100mL	1.00	1.00	1.00	10318209	EPA1600		08/08/16 11:10 AM
Fecal Coliform	200 Z	cfu/100mL	1.00	1.00	1.00	10318211	SM9222 D	E761792	08/08/16 11:20 AM
Aluminum	0.0151 I	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7429-90-5	08/09/16
Arsenic	0.00700	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-38-2	08/09/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318301	EPA6020	7440-43-9	08/09/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-47-3	08/09/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7439-92-1	08/09/16
Nickel	0.00290	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-02-0	08/09/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7440-66-6	08/09/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10318325	EPA7470	7439-97-6	08/09/16
Orthophosphate(as P)	0.498	mg/L	1.00	0.00200	0.00400	10318345	EPA365.1	14265-44-2	08/09/16 03:57 PM
Iron	0.0201	mg/L	1.00	0.0100	0.0200	10318410	EPA6010	7439-89-6	08/10/16
TSS	1.63 I	mg/L	1.00	1.00	2.00	10318487	SM2540 D	E1642818	08/10/16
TDS	8770	mg/L	1.00	2.50	5.00	10318495	SM2540 C	10-33-3	08/09/16
TOC	31.9	mg/L	1.00	1.00	2.00	10318548	SM5310 C	E701250	08/10/16
Ammonia (as N)	2.41	mg/L	1.00	0.0100	0.0200	10318681	EPA350.1	7664-41-7	08/15/16
Chloride	4830	mg/L	20.0	80.0	160	10318743	SM4500-CI E	16887-00-6	08/16/16
Sulfate	547	mg/L	10.0	50.0	100	10318785	EPA375.2	14808-79-8	08/17/16
TKN(as N)	5.00	mg/L	1.00	0.200	0.400	10318843	EPA351.2	7727-37-9	08/16/16
Chlorophyll a	0.430	ug/L	1.00	0.0200	0.150	10319021	SM10200 H	479-61-8	08/07/16
Total Phosphorus(as P)	0.546	mg/L	1.00	0.00200	0.00400	10319271	EPA365.1	7723-14-0	08/23/16
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319574	EPA353.2	14797-55-8	08/09/16 03:20 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10319574	EPA353.2	14797-65-0	08/09/16 03:20 PM

Lab #: 306392GW3 Sampled: 08/08/16 07:21 AM Desc: OW-5									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	5.29		0				TotNit	17778-88-0	



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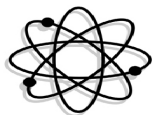
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Lab #: 306392GW3 Sampled: 08/08/16 07:21 AM Desc: OW-5									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Unionized NH3(as N)	0.0189	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/15/16
Enterococci	17.0	cfu/100mL	1.00	1.00	1.00	10318209	EPA1600		08/08/16 11:10 AM
Fecal Coliform	5.00	cfu/100mL	1.00	1.00	1.00	10318211	SM9222 D	E761792	08/08/16 11:20 AM
Aluminum	0.0113 I	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7429-90-5	08/09/16
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-38-2	08/09/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318301	EPA6020	7440-43-9	08/09/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-47-3	08/09/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7439-92-1	08/09/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-02-0	08/09/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7440-66-6	08/09/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10318325	EPA7470	7439-97-6	08/09/16
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318345	EPA365.1	14265-44-2	08/09/16 03:57 PM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10318410	EPA6010	7439-89-6	08/10/16
TSS	1.00 U	mg/L	1.00	1.00	2.00	10318487	SM2540 D	E1642818	08/10/16
TDS	2800	mg/L	1.00	2.50	5.00	10318495	SM2540 C	10-33-3	08/09/16
TOC	26.9	mg/L	1.00	1.00	2.00	10318548	SM5310 C	E701250	08/10/16
Ammonia (as N)	3.31	mg/L	1.00	0.0100	0.0200	10318681	EPA350.1	7664-41-7	08/15/16
Chloride	1240	mg/L	5.00	20.0	40.0	10318743	SM4500-CI E	16887-00-6	08/16/16
Sulfate	279	mg/L	10.0	50.0	100	10318785	EPA375.2	14808-79-8	08/17/16
TKN(as N)	5.29	mg/L	1.00	0.200	0.400	10318843	EPA351.2	7727-37-9	08/16/16
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10319021	SM10200 H	479-61-8	08/07/16
Total Phosphorus(as P)	0.0135	mg/L	1.00	0.00200	0.00400	10319271	EPA365.1	7723-14-0	08/23/16
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319574	EPA353.2	14797-55-8	08/09/16 03:20 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10319574	EPA353.2	14797-65-0	08/09/16 03:20 PM

Lab #: 306392GW4 Sampled: 08/08/16 07:21 AM Desc: OW-4									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.830		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/15/16



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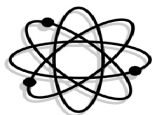
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Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
306392GW4	08/08/16 07:21 AM	OW-4	Enterococci	90.0	cfu/100mL	1.00	1.00	1.00	10318209	EPA1600		08/08/16 11:10 AM
			Fecal Coliform	19.0	cfu/100mL	1.00	1.00	1.00	10318211	SM9222 D	E761792	08/08/16 11:20 AM
			Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7429-90-5	08/09/16
			Arsenic	0.00310	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-38-2	08/09/16
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318301	EPA6020	7440-43-9	08/09/16
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-47-3	08/09/16
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7439-92-1	08/09/16
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-02-0	08/09/16
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7440-66-6	08/09/16
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10318325	EPA7470	7439-97-6	08/09/16
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318345	EPA365.1	14265-44-2	08/09/16 03:57 PM
			Iron	0.0513	mg/L	1.00	0.0100	0.0200	10318410	EPA6010	7439-89-6	08/10/16
			TSS	1.75 I	mg/L	1.00	1.00	2.00	10318487	SM2540 D	E1642818	08/10/16
			TOC	13.0	mg/L	1.00	1.00	2.00	10318548	SM5310 C	E701250	08/10/16
			TDS	1810	mg/L	1.00	2.50	5.00	10318652	SM2540 C	10-33-3	08/10/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10318681	EPA350.1	7664-41-7	08/15/16
			Chloride	633	mg/L	3.00	12.0	24.0	10318743	SM4500-CI E	16887-00-6	08/16/16
			Sulfate	247	mg/L	10.0	50.0	100	10318785	EPA375.2	14808-79-8	08/17/16
			TKN(as N)	0.830	mg/L	1.00	0.200	0.400	10318843	EPA351.2	7727-37-9	08/16/16
			Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10319021	SM10200 H	479-61-8	08/07/16
			Total Phosphorus(as P)	0.0113	mg/L	1.00	0.00200	0.00400	10319271	EPA365.1	7723-14-0	08/23/16
			Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10319574	EPA353.2	14797-55-8	08/09/16 03:20 PM
			Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10319574	EPA353.2	14797-65-0	08/09/16 03:20 PM

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
306392GW5	08/08/16 07:21 AM	OW-2	Total Nitrogen(as N)	4.55		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		08/15/16



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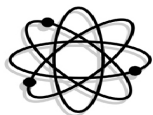
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Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
306392GW5	08/08/16 07:21 AM	OW-2	Enterococci	3.00	cfu/100mL	1.00	1.00	1.00	10318209	EPA1600		08/08/16 11:10 AM
			Fecal Coliform	200 Z	cfu/100mL	1.00	1.00	1.00	10318211	SM9222 D	E761792	08/08/16 11:20 AM
			Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7429-90-5	08/09/16
			Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-38-2	08/09/16
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10318301	EPA6020	7440-43-9	08/09/16
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-47-3	08/09/16
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7439-92-1	08/09/16
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10318301	EPA6020	7440-02-0	08/09/16
			Zinc	0.0124 I	mg/L	1.00	0.0100	0.0200	10318301	EPA6020	7440-66-6	08/09/16
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10318325	EPA7470	7439-97-6	08/09/16
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10318345	EPA365.1	14265-44-2	08/09/16 03:57 PM
			Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10318410	EPA6010	7439-89-6	08/10/16
			TSS	1.00 U	mg/L	1.00	1.00	2.00	10318487	SM2540 D	E1642818	08/10/16
			TOC	3.58	mg/L	1.00	1.00	2.00	10318548	SM5310 C	E701250	08/10/16
			TDS	314	mg/L	1.00	2.50	5.00	10318652	SM2540 C	10-33-3	08/10/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10318681	EPA350.1	7664-41-7	08/15/16
			Chloride	21.7	mg/L	1.00	4.00	8.00	10318743	SM4500-CI E	16887-00-6	08/16/16
			Sulfate	19.2	mg/L	1.00	5.00	10.0	10318785	EPA375.2	14808-79-8	08/17/16
			TKN(as N)	0.444	mg/L	1.00	0.200	0.400	10318843	EPA351.2	7727-37-9	08/16/16
			Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10319021	SM10200 H	479-61-8	08/07/16
			Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10319271	EPA365.1	7723-14-0	08/23/16
			Nitrate(as N)	4.08	mg/L	1.00	0.0100	0.0200	10319574	EPA353.2	14797-55-8	08/09/16 03:20 PM
			Nitrite(as N)	0.0344 I	mg/L	1.00	0.0200	0.0400	10319574	EPA353.2	14797-65-0	08/09/16 03:20 PM



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Quality Report

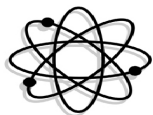
Quality Control Batch: 10274203	Analyst: PCW	
Blank	Result	Units
Unionized NH3(as N)	0.000100U	mg/L

Quality Control Batch: 10318209	Analyst: TDC	
Blank	Result	Units
Enterococci	1.00U	cfu/100mL

Quality Control Batch: 10318211	Analyst: TDC	
Blank	Result	Units
Fecal Coliform	1.00U	cfu/100mL

Quality Control Batch: 10318301	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	0.104	mg/L	0.100	103.90	80.00-120.00
Arsenic	0.0939	mg/L	0.100	93.90	80.00-120.00
Cadmium	0.0937	mg/L	0.100	93.70	80.00-120.00



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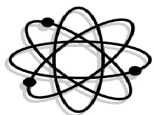
PO #: 15349
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Quality Control Batch: 10318301		Analyst: EVB			
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chromium	0.0972	mg/L	0.100	97.20	80.00-120.00
Lead	0.103	mg/L	0.100	102.90	80.00-120.00
Nickel	0.109	mg/L	0.100	108.60	80.00-120.00
Zinc	0.0921	mg/L	0.100	92.10	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	17.2	mg/L	0.100	1,064.40	75.00-125.00	16.2
Arsenic	0.141	mg/L	0.100	73.90	75.00-125.00	0.0670
Cadmium	0.0857	mg/L	0.100	85.70	75.00-125.00	0.000200U
Chromium	0.0942	mg/L	0.100	94.20	75.00-125.00	0.00100U
Lead	0.111	mg/L	0.100	110.70	75.00-125.00	0.00100U
Nickel	0.201	mg/L	0.100	110.60	75.00-125.00	0.0904
Zinc	12.4	mg/L	0.100	186.70	75.00-125.00	12.2

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	17.4	mg/L	0.100	1,194.60	75.00-125.00	16.2	0.75	20.00
Arsenic	0.144	mg/L	0.100	76.60	75.00-125.00	0.0670	1.90	20.00
Cadmium	0.0823	mg/L	0.100	82.30	75.00-125.00	0.000200U	4.05	20.00
Chromium	0.0946	mg/L	0.100	94.60	75.00-125.00	0.00100U	0.42	20.00
Lead	0.114	mg/L	0.100	114.30	75.00-125.00	0.00100U	3.20	20.00
Nickel	0.201	mg/L	0.100	110.50	75.00-125.00	0.0904	0.05	20.00
Zinc	12.4	mg/L	0.100	185.80	75.00-125.00	12.2	0.01	20.00

Quality Control Batch: 10318325		Analyst: EVB			
Blank	Result	Units			
Mercury	0.00000500	mg/L			
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.00106	mg/L	0.00100	106.10	80.00-120.00



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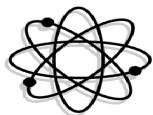
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Quality Control Batch: 10318325		Analyst: EVB							
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Mercury	0.00328	mg/L	0.00300	111.19	80.00-120.00	-0.0000608			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Mercury	0.00297	mg/L	0.00300	100.89	80.00-120.00	-0.0000608	9.90	20.00	
Quality Control Batch: 10318345		Analyst: PCW							
Blank	Result	Units							
Orthophosphate(as P)	0.00200U	mg/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Orthophosphate(as P)	1.06	mg/L	1.00	106.12	80.00-120.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Orthophosphate(as P)	0.555	mg/L	0.500	110.97	80.00-120.00	0.0200U			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Orthophosphate(as P)	0.556	mg/L	0.500	111.15	80.00-120.00	0.0200U	0.16	20.00	
Quality Control Batch: 10318410		Analyst: EVB							
Blank	Result	Units							
Iron	0.0100U	mg/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Iron	5.40	mg/L	5.00	108.08	80.00-120.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Iron	4.44	mg/L	5.00	88.72	75.00-125.00	0.0100U			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	



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Quality Control Batch: 10318410	Analyst: EVB							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	4.72	mg/L	5.00	94.30	75.00-125.00	0.0100U	6.10	20.00

Quality Control Batch: 10318495	Analyst: CLL							
Blank	Result	Units						
TDS	2.50U	mg/L						

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TDS	1610	mg/L	1500	107.20	50.00-150.00			

Quality Control Batch: 10318548	Analyst: PCW							
Blank	Result	Units						
TOC	1.00U	mg/L						

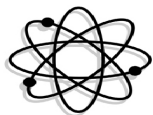
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TOC	10.9	mg/L	10.0	109.22	80.00-120.00			

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TOC	22.5	mg/L	10.0	93.54	80.00-120.00	13.2		

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC	22.8	mg/L	10.0	95.89	80.00-120.00	13.2	1.04	20.00

Quality Control Batch: 10318652	Analyst: CLL							
Blank	Result	Units						
TDS	2.50U	mg/L						

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
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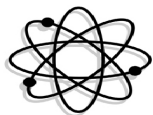
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Quality Control Batch: 10318652		Analyst: CLL			
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1490	mg/L	1500	99.07	50.00-150.00

Quality Control Batch: 10318743		Analyst: VLB						
Blank	Result	Units						
Chloride	4.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chloride	99.8	mg/L	100	99.83	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	132	mg/L	100	110.46	80.00-120.00	21.7		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	125	mg/L	100	103.26	80.00-120.00	21.7	5.60	20.00

Quality Control Batch: 10318785		Analyst: PCW						
Blank	Result	Units						
Sulfate	5.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Sulfate	63.6	mg/L	60.0	106.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Sulfate	69.2	mg/L	50.0	100.00	85.00-115.00	19.2		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	69.6	mg/L	50.0	100.80	85.00-115.00	19.2	0.58	20.00



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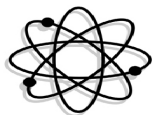
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Quality Control Batch: 10318843		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.00	mg/L	3.00	100.10	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.65	mg/L	3.00	101.74	80.00-120.00	0.594		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.64	mg/L	3.00	101.65	80.00-120.00	0.594	0.08	20.00
Quality Control Batch: 10319021		Analyst: TRB						
Blank	Result	Units						
Chlorophyll a	0.0200U	ug/L						
Quality Control Batch: 10319271		Analyst: PCW						
Blank	Result	Units						
Total Phosphorus(as P)	0.00206	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	0.499	mg/L	0.500	99.80	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.0922	mg/L	0.200	42.01	85.00-115.00	0.00815		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.0928	mg/L	0.200	42.30	85.00-115.00	0.00815	0.64	20.00



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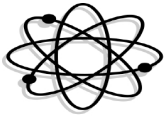
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Quality Control Batch: 10319574		Analyst: PCW							
Blank		Result	Units						
Nitrate(as N)		0.0100U	mg/L						
Nitrite(as N)		0.0200U	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Nitrate(as N)		1.06	mg/L	1.00	106.00	85.00-115.00			
Nitrite(as N)		1.02	mg/L	1.00	102.00	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Nitrate(as N)		4.38	mg/L	4.00	109.50	85.00-115.00	0.100U		
Nitrite(as N)		4.27	mg/L	4.00	106.75	85.00-115.00	0.200U		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrate(as N)		4.33	mg/L	4.00	108.25	85.00-115.00	0.100U	1.15	20.00
Nitrite(as N)		4.25	mg/L	4.00	106.25	85.00-115.00	0.200U	0.47	20.00



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Marathon, FL 33050

PO #: 15349
Client Project #: Cudjoe Key -Q- GW
Date Sampled: Aug 8, 2016
Aug 18, 2016; Invoice: 306392

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.

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.