

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

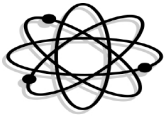
PO #: 15349
Client Project #: Cudjoe Key WWTP-Q-GW
Date Sampled: Feb 15, 2016
Feb 25, 2016; Invoice: 290409

Report Summary

Date Received: Feb 15, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
290409GW1	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	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
290409GW2	OW-3	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	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
290409GW3	OW-5	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	



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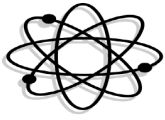
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		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
290409GW4	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	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
290409GW5	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	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	



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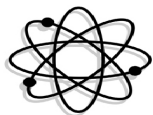
TotNit

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:							
290409GW1	02/15/16 07:58 AM	OW-1							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	1.10		0				OrgNit		
Total Nitrogen(as N)	1.71		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/22/16
Enterococci	60.0	cfu/100mL	1.00	1.00	1.00	10303986	EPA1600		02/15/16 12:15 PM
Fecal Coliform	1.00	cfu/100mL	1.00	1.00	1.00	10303987	SM9222 D	E761792	02/15/16 12:25 PM
Nitrate(as N)	0.585	mg/L	1.00	0.0100	0.0200	10304022	EPA353.2	14797-55-8	02/16/16 03:40 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304022	EPA353.2	14797-65-0	02/16/16 03:40 PM
Iron	0.0670	mg/L	1.00	0.0100	0.0200	10304058	EPA6010	7439-89-6	02/16/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304065	EPA7470	7439-97-6	02/17/16
TDS	2650	mg/L	1.00	2.50	5.00	10304172	SM2540 C	10-33-3	02/16/16
Chloride	1100	mg/L	20.0	80.0	160	10304383	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.0584	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7429-90-5	02/18/16
Arsenic	0.902	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-38-2	02/18/16
Cadmium	0.0121	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-43-9	02/18/16
Chromium	1.46	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-47-3	02/18/16
Lead	0.742	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7439-92-1	02/18/16
Nickel	2.52	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-02-0	02/18/16
Zinc	2.95	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7440-66-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304468	SM10200 H	479-61-8	02/15/16
TSS	3.88	mg/L	1.00	1.00	2.00	10304525	SM2540 D	E1642818	02/17/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304607	EPA350.1	7664-41-7	02/22/16
TKN(as N)	1.11	mg/L	1.00	0.200	0.400	10304620	EPA351.2	7727-37-9	02/23/16
TOC	13.8	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Orthophosphate(as P)	0.0136	mg/L	1.00	0.00200	0.00400	10304813	EPA365.1	14265-44-2	02/16/16 03:32 PM
Total Phosphorus(as P)	0.0211	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	312	mg/L	1.00	5.00	10.0	10304865	EPA375.2	14808-79-8	02/25/16



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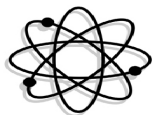
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Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	1.54		0				OrgNit		
Total Nitrogen(as N)	3.94		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.0135	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/22/16
Enterococci	200 Z	cfu/100mL	1.00	1.00	1.00	10303986	EPA1600		02/15/16 12:15 PM
Fecal Coliform	200 Z	cfu/100mL	1.00	1.00	1.00	10303987	SM9222 D	E761792	02/15/16 12:25 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304022	EPA353.2	14797-55-8	02/16/16 03:40 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304022	EPA353.2	14797-65-0	02/16/16 03:40 PM
Iron	0.440	mg/L	1.00	0.0100	0.0200	10304058	EPA6010	7439-89-6	02/16/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304066	EPA7470	7439-97-6	02/17/16
TDS	12700	mg/L	1.00	2.50	5.00	10304172	SM2540 C	10-33-3	02/16/16
Chloride	6910	mg/L	150	600	1200	10304383	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.104	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7429-90-5	02/18/16
Arsenic	0.586	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-38-2	02/18/16
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-43-9	02/18/16
Chromium	0.115	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-47-3	02/18/16
Lead	0.526	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7439-92-1	02/18/16
Nickel	0.126	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-02-0	02/18/16
Zinc	0.268	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7440-66-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304468	SM10200 H	479-61-8	02/15/16
TSS	4.63	mg/L	1.00	1.00	2.00	10304525	SM2540 D	E1642818	02/17/16
Ammonia (as N)	2.37	mg/L	1.00	0.0100	0.0200	10304607	EPA350.1	7664-41-7	02/22/16
TKN(as N)	3.91	mg/L	1.00	0.200	0.400	10304620	EPA351.2	7727-37-9	02/23/16
TOC	14.9	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Orthophosphate(as P)	0.501	mg/L	1.00	0.00200	0.00400	10304813	EPA365.1	14265-44-2	02/16/16 03:32 PM
Total Phosphorus(as P)	0.552	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	1010	mg/L	10.0	50.0	100	10304865	EPA375.2	14808-79-8	02/25/16

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



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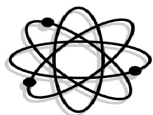
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	1.76		0				OrgNit		
Total Nitrogen(as N)	1.92		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000713	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/22/16
Enterococci	200 Z	cfu/100mL	1.00	1.00	1.00	10303986	EPA1600		02/15/16 12:15 PM
Fecal Coliform	1.00	cfu/100mL	1.00	1.00	1.00	10303987	SM9222 D	E761792	02/15/16 12:25 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304022	EPA353.2	14797-55-8	02/16/16 03:40 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304022	EPA353.2	14797-65-0	02/16/16 03:40 PM
Iron	0.0417	mg/L	1.00	0.0100	0.0200	10304058	EPA6010	7439-89-6	02/16/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304066	EPA7470	7439-97-6	02/17/16
Chloride	819	mg/L	20.0	80.0	160	10304383	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.140	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7429-90-5	02/18/16
Arsenic	3.11	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-38-2	02/18/16
Cadmium	0.0470	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-43-9	02/18/16
Chromium	0.360	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-47-3	02/18/16
Lead	0.396	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7439-92-1	02/18/16
Nickel	0.267	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-02-0	02/18/16
Zinc	4.86	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7440-66-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304468	SM10200 H	479-61-8	02/15/16
TDS	2020	mg/L	1.00	2.50	5.00	10304523	SM2540 C	10-33-3	02/18/16
TSS	1.00 U	mg/L	1.00	1.00	2.00	10304525	SM2540 D	E1642818	02/17/16
Ammonia (as N)	0.125	mg/L	1.00	0.0100	0.0200	10304607	EPA350.1	7664-41-7	02/22/16
TKN(as N)	1.89	mg/L	1.00	0.200	0.400	10304620	EPA351.2	7727-37-9	02/23/16
TOC	26.9	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Orthophosphate(as P)	0.0185	mg/L	1.00	0.00200	0.00400	10304813	EPA365.1	14265-44-2	02/16/16 03:32 PM
Total Phosphorus(as P)	0.0212	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	237	mg/L	1.00	5.00	10.0	10304865	EPA375.2	14808-79-8	02/25/16

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



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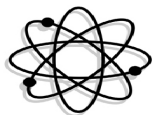
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Lab #: 290409GW4 Sampled: 02/15/16 10:10 AM Desc: OW-4									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.753		0				OrgNit		
Total Nitrogen(as N)	2.62		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/22/16
Enterococci	127	cfu/100mL	1.00	1.00	1.00	10303986	EPA1600		02/15/16 12:15 PM
Fecal Coliform	14.0	cfu/100mL	1.00	1.00	1.00	10303987	SM9222 D	E761792	02/15/16 12:25 PM
Nitrate(as N)	1.84	mg/L	20.0	0.200	0.400	10304022	EPA353.2	14797-55-8	02/16/16 03:40 PM
Nitrite(as N)	0.400 U	mg/L	20.0	0.400	0.800	10304022	EPA353.2	14797-65-0	02/16/16 03:40 PM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10304058	EPA6010	7439-89-6	02/16/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304066	EPA7470	7439-97-6	02/17/16
Chloride	693	mg/L	10.0	40.0	80.0	10304383	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.0710	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7429-90-5	02/18/16
Arsenic	0.966	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-38-2	02/18/16
Cadmium	0.0198	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-43-9	02/18/16
Chromium	0.115	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-47-3	02/18/16
Lead	0.797	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7439-92-1	02/18/16
Nickel	0.139	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-02-0	02/18/16
Zinc	0.404	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7440-66-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304468	SM10200 H	479-61-8	02/15/16
TDS	1790	mg/L	1.00	2.50	5.00	10304523	SM2540 C	10-33-3	02/18/16
TSS	1.00 U	mg/L	1.00	1.00	2.00	10304525	SM2540 D	E1642818	02/17/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304607	EPA350.1	7664-41-7	02/22/16
TKN(as N)	0.763	mg/L	1.00	0.200	0.400	10304620	EPA351.2	7727-37-9	02/23/16
TOC	12.4	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304813	EPA365.1	14265-44-2	02/16/16 03:32 PM
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	329	mg/L	1.00	5.00	10.0	10304865	EPA375.2	14808-79-8	02/25/16

Lab #: 290409GW5 Sampled: 02/15/16 10:45 AM Desc: OW-2									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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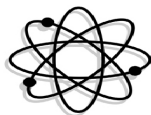
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Florida Keys Aqueduct Authority-WWTP
 3375 Overseas Hwy
 Marathon, FL 33050

PO #: 15349
 Client Project #: Cudjoe Key WWTP-Q-GW
 Date Sampled: Feb 15, 2016
 Feb 25, 2016; Invoice: 290409

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.425		0				OrgNit		
Total Nitrogen(as N)	23.8		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/22/16
Enterococci	59.0	cfu/100mL	1.00	1.00	1.00	10303986	EPA1600		02/15/16 12:15 PM
Fecal Coliform	5.00	cfu/100mL	1.00	1.00	1.00	10303987	SM9222 D	E761792	02/15/16 12:25 PM
Nitrate(as N)	23.3	mg/L	10.0	0.100	0.200	10304022	EPA353.2	14797-55-8	02/16/16 03:40 PM
Nitrite(as N)	0.200 U	mg/L	10.0	0.200	0.400	10304022	EPA353.2	14797-65-0	02/16/16 03:40 PM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10304058	EPA6010	7439-89-6	02/16/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304066	EPA7470	7439-97-6	02/17/16
Chloride	17.6	mg/L	1.00	4.00	8.00	10304383	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.0609	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7429-90-5	02/18/16
Arsenic	0.0613	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-38-2	02/18/16
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-43-9	02/18/16
Chromium	0.00640	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-47-3	02/18/16
Lead	1.66	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7439-92-1	02/18/16
Nickel	0.00140 l	mg/L	1.00	0.00100	0.00200	10304427	EPA6020	7440-02-0	02/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10304427	EPA6020	7440-66-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304468	SM10200 H	479-61-8	02/15/16
TDS	274	mg/L	1.00	2.50	5.00	10304523	SM2540 C	10-33-3	02/18/16
TSS	1.00 U	mg/L	1.00	1.00	2.00	10304525	SM2540 D	E1642818	02/17/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304607	EPA350.1	7664-41-7	02/22/16
TKN(as N)	0.435	mg/L	1.00	0.200	0.400	10304619	EPA351.2	7727-37-9	02/23/16
TOC	2.75	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304813	EPA365.1	14265-44-2	02/16/16 03:32 PM
Total Phosphorus(as P)	0.0178	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	5.00 U	mg/L	1.00	5.00	10.0	10304865	EPA375.2	14808-79-8	02/25/16



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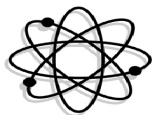
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

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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: 10303986		Analyst: TDC						
Blank	Result	Units						
Enterococci	1.00U	cfu/100mL						
Quality Control Batch: 10303987		Analyst: TDC						
Blank	Result	Units						
Fecal Coliform	1.00U	cfu/100mL						
Quality Control Batch: 10304022		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	105.50	85.00-115.00			
Nitrite(as N)	0.945	mg/L	1.00	94.50	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Nitrate(as N)	9.06	mg/L	4.00	112.50	85.00-115.00	4.56		
Nitrite(as N)	4.35	mg/L	4.00	108.75	85.00-115.00	0.0200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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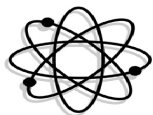
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Quality Control Batch: 10304022		Analyst: PCW						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrate(as N)	8.93	mg/L	4.00	109.25	85.00-115.00	4.56	1.45	20.00
Nitrite(as N)	4.22	mg/L	4.00	105.50	85.00-115.00	0.0200U	3.03	20.00
Quality Control Batch: 10304058		Analyst: EVB						
Blank	Result	Units						
Iron	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Iron	10.6	mg/L	10.0	106.39	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Iron	5.22	mg/L	5.00	104.19	75.00-125.00	0.0135		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	5.22	mg/L	5.00	104.15	75.00-125.00	0.0135	0.04	20.00
Quality Control Batch: 10304065		Analyst: EVB						
Blank	Result	Units						
Mercury	0.00000280	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Mercury	0.000995	mg/L	0.00100	99.49	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Mercury	0.00284	mg/L	0.00300	93.11	80.00-120.00	0.0000436		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00292	mg/L	0.00300	95.98	80.00-120.00	0.0000436	2.99	20.00



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Quality Control Batch: 10304066	Analyst: EVB	
Blank	Result	Units
Mercury	0.00000280	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.000995	mg/L	0.00100	99.49	80.00-120.00

Quality Control Batch: 10304172	Analyst: PLB	
Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1500	mg/L	1500	99.73	50.00-150.00

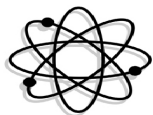
Quality Control Batch: 10304383	Analyst: VLB	
Blank	Result	Units
Chloride	4.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	51.4	mg/L	50.0	102.88	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Chloride	90.5	mg/L	50.0	92.80	85.00-115.00	44.1

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	89.4	mg/L	50.0	90.66	85.00-115.00	44.1	1.19	20.00

Quality Control Batch: 10304427	Analyst: EVB	
Blank	Result	Units



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Quality Control Batch: 10304427		Analyst: EVB							
Blank		Result	Units						
Aluminum		0.0100U	mg/L						
Arsenic		0.00100U	mg/L						
Cadmium		0.00100U	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		0.0967	mg/L	0.100	96.70	80.00-120.00			
Arsenic		0.104	mg/L	0.100	103.80	80.00-120.00			
Cadmium		0.0903	mg/L	0.100	90.30	80.00-120.00			
Chromium		0.103	mg/L	0.100	102.50	80.00-120.00			
Lead		0.0919	mg/L	0.100	91.90	80.00-120.00			
Nickel		0.101	mg/L	0.100	101.40	80.00-120.00			
Zinc		0.0948	mg/L	0.100	94.80	80.00-120.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Aluminum		0.0927	mg/L	0.100	92.70	75.00-125.00	0.0100U		
Arsenic		0.0780	mg/L	0.100	64.40	75.00-125.00	0.0136		
Cadmium		0.0823	mg/L	0.100	82.30	75.00-125.00	0.00100U		
Chromium		0.0809	mg/L	0.100	80.90	75.00-125.00	0.00100U		
Lead		0.0813	mg/L	0.100	81.30	75.00-125.00	0.00100U		
Nickel		0.0893	mg/L	0.100	89.30	75.00-125.00	0.00100U		
Zinc		0.0791	mg/L	0.100	67.80	75.00-125.00	0.0113		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum		0.0986	mg/L	0.100	98.60	75.00-125.00	0.0100U	6.17	20.00
Arsenic		0.0797	mg/L	0.100	66.10	75.00-125.00	0.0136	2.16	20.00



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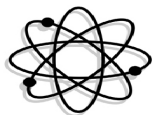
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Quality Control Batch: 10304427		Analyst: EVB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Cadmium	0.0825	mg/L	0.100	82.50	75.00-125.00	0.00100U	0.24	20.00
Chromium	0.0853	mg/L	0.100	85.30	75.00-125.00	0.00100U	5.29	20.00
Lead	0.0809	mg/L	0.100	80.90	75.00-125.00	0.00100U	0.49	20.00
Nickel	0.0905	mg/L	0.100	90.50	75.00-125.00	0.00100U	1.33	20.00
Zinc	0.0736	mg/L	0.100	62.30	75.00-125.00	0.0113	7.20	20.00

Quality Control Batch: 10304468		Analyst: ECG						
Blank	Result	Units						
Chlorophyll a	1.00U	mg/m3						

Quality Control Batch: 10304607		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.490	mg/L	0.500	98.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	1.39	mg/L	0.780	112.82	85.00-115.00	0.510		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	1.36	mg/L	0.780	108.97	85.00-115.00	0.510	2.18	20.00

Quality Control Batch: 10304619		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						



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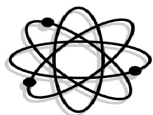
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Quality Control Batch: 10304619		Analyst: VLB						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
TKN(as N)		2.88	mg/L	3.00	95.92	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	
TKN(as N)		3.51	mg/L	3.00	89.12	80.00-120.00	0.832	
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
TKN(as N)		3.45	mg/L	3.00	87.43	80.00-120.00	0.832	1.45
Quality Control Batch: 10304620		Analyst: VLB						
Blank		Result	Units					
TKN(as N)		0.200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
TKN(as N)		2.88	mg/L	3.00	95.86	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	
TKN(as N)		3.20	mg/L	3.00	89.61	80.00-120.00	0.508	
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
TKN(as N)		3.11	mg/L	3.00	86.66	80.00-120.00	0.508	2.81
Quality Control Batch: 10304653		Analyst: PCW						
Blank		Result	Units					
TOC		1.00U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
TOC		9.91	mg/L	10.0	99.12	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	



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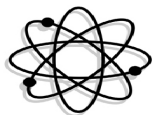
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Quality Control Batch: 10304653		Analyst: PCW						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TOC	21.6	mg/L	10.0	78.21	80.00-120.00	13.8		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC	21.9	mg/L	10.0	81.24	80.00-120.00	13.8	1.39	20.00
Quality Control Batch: 10304813		Analyst: PCW						
Blank	Result	Units						
Orthophosphate(as P)	0.00200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Orthophosphate(as P)	0.913	mg/L	1.00	91.31	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Orthophosphate(as P)	0.481	mg/L	0.500	93.53	85.00-115.00	0.0136		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Orthophosphate(as P)	0.482	mg/L	0.500	93.66	85.00-115.00	0.0136	0.14	20.00
Quality Control Batch: 10304825		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)	0.500	mg/L	0.500	100.03	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.177	mg/L	0.200	88.25	85.00-115.00	0.00200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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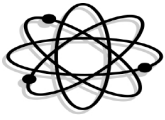
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

PO #: 15349
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Date Sampled: Feb 15, 2016
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Quality Control Batch: 10304825		Analyst: VLB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.179	mg/L	0.200	89.47	85.00-115.00	0.00200U	1.37	20.00
Quality Control Batch: 10304865		Analyst: PCW						
Blank	Result	Units						
Sulfate	5.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Sulfate	65.3	mg/L	60.0	108.83	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Sulfate	414	mg/L	100	102.00	85.00-115.00	312		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	406	mg/L	100	94.00	85.00-115.00	312	1.95	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.

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.