



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

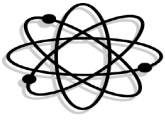
PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Report Summary

Date Received: Feb 15, 2017

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
323569SW1	C-24	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	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
323569SW2	CK-3	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	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
323569SW3	CK-2	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	



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

		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	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
323569SW4	C-25	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	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the 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



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
 Client Project #: Cudjoe Key WWTP -Q- SW's
 Date Sampled: Feb 15, 2017
 Mar 10, 2017; Invoice: 323569

Analysis Report

Lab #:	Sampled:	Desc:										
323569SW1	02/15/17 07:15 AM	C-24	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
			Organic Nitrogen	0.555		0				OrgNit		
			Total Nitrogen(as N)	0.555		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
			Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10333688	COLILERT-18	E761792	02/15/17 01:25 PM
			TSS	29.8	mg/L	1.00	1.00	2.00	10333697	SM2540 D	E1642818	02/15/17
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333726	EPA245.1	7439-97-6	02/16/17
			Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333770	ENTEROLERT		02/15/17 10:30 AM
			Iron	0.0121 I	mg/L	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10333902	EPA365.1	14265-44-2	02/17/17 07:10 AM
			Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10333909	EPA353.2	14797-55-8	02/16/17 03:00 PM
			Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10333909	EPA353.2	14797-65-0	02/16/17 03:00 PM
			Chloride	22300	mg/L	300	1200	2400	10333931	SM4500-CI E	16887-00-6	02/17/17
			Aluminum	0.0192 I	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7429-90-5	02/16/17
			Arsenic	0.00420	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-38-2	02/16/17
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10334007	EPA200.8	7440-43-9	02/16/17
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-47-3	02/16/17
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7439-92-1	02/16/17
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-02-0	02/16/17
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7440-66-6	02/16/17
			Chlorophyll a	0.430	ug/L	1.00	0.0200	0.150	10334072	SM10200 H	479-61-8	02/15/17
			TDS	39100	mg/L	1.00	2.50	5.00	10334113	SM2540 C	10-33-3	02/17/17
			TKN(as N)	0.555	mg/L	1.00	0.200	0.400	10334243	EPA351.2	7727-37-9	02/22/17
			Total Phosphorus(as P)	0.00869	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
			TOC	2.24	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
			Sulfate	3870	mg/L	30.0	150	300	10335478	EPA375.2	14808-79-8	03/09/17
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10335663	EPA350.1	7664-41-7	03/02/17



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.609		0				OrgNit		
Total Nitrogen(as N)	0.688		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10333688	COLILERT-18	E761792	02/15/17 01:25 PM
TSS	27.2	mg/L	1.00	1.00	2.00	10333697	SM2540 D	E1642818	02/15/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333726	EPA245.1	7439-97-6	02/16/17
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333770	ENTEROLERT		02/15/17 10:30 AM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10333902	EPA365.1	14265-44-2	02/17/17 07:10 AM
Nitrate(as N)	0.0793	mg/L	1.00	0.0100	0.0200	10333909	EPA353.2	14797-55-8	02/16/17 03:00 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10333909	EPA353.2	14797-65-0	02/16/17 03:00 PM
Chloride	24700	mg/L	300	1200	2400	10333931	SM4500-CI E	16887-00-6	02/17/17
Aluminum	0.0151 I	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7429-90-5	02/16/17
Arsenic	0.00320	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-38-2	02/16/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10334007	EPA200.8	7440-43-9	02/16/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-47-3	02/16/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7439-92-1	02/16/17
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-02-0	02/16/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7440-66-6	02/16/17
Chlorophyll a	0.360	ug/L	1.00	0.0200	0.150	10334072	SM10200 H	479-61-8	02/15/17
TDS	40200	mg/L	1.00	2.50	5.00	10334113	SM2540 C	10-33-3	02/17/17
TKN(as N)	0.609	mg/L	1.00	0.200	0.400	10334243	EPA351.2	7727-37-9	02/22/17
Total Phosphorus(as P)	0.0165	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
TOC	2.07	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
Sulfate	4230	mg/L	30.0	150	300	10335478	EPA375.2	14808-79-8	03/09/17
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10335663	EPA350.1	7664-41-7	03/02/17

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



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
 Client Project #: Cudjoe Key WWTP -Q- SW's
 Date Sampled: Feb 15, 2017
 Mar 10, 2017; Invoice: 323569

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.329		0				OrgNit		
Total Nitrogen(as N)	0.405		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10333688	COLILERT-18	E761792	02/15/17 01:25 PM
TSS	24.8	mg/L	1.00	1.00	2.00	10333697	SM2540 D	E1642818	02/15/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333726	EPA245.1	7439-97-6	02/16/17
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333770	ENTEROLERT		02/15/17 10:30 AM
Iron	0.0138 I	mg/L	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10333902	EPA365.1	14265-44-2	02/17/17 07:10 AM
Nitrate(as N)	0.0756	mg/L	1.00	0.0100	0.0200	10333909	EPA353.2	14797-55-8	02/16/17 03:00 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10333909	EPA353.2	14797-65-0	02/16/17 03:00 PM
Chloride	21500	mg/L	300	1200	2400	10333931	SM4500-CI E	16887-00-6	02/17/17
Aluminum	0.0240	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7429-90-5	02/16/17
Arsenic	0.00430	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-38-2	02/16/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10334007	EPA200.8	7440-43-9	02/16/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-47-3	02/16/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7439-92-1	02/16/17
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-02-0	02/16/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7440-66-6	02/16/17
Chlorophyll a	0.120 I	ug/L	1.00	0.0200	0.150	10334072	SM10200 H	479-61-8	02/15/17
TDS	36900	mg/L	1.00	2.50	5.00	10334113	SM2540 C	10-33-3	02/17/17
TKN(as N)	0.329 I	mg/L	1.00	0.200	0.400	10334243	EPA351.2	7727-37-9	02/22/17
Total Phosphorus(as P)	0.0107	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
TOC	1.97 I	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
Sulfate	4410	mg/L	30.0	150	300	10335478	EPA375.2	14808-79-8	03/09/17
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10335663	EPA350.1	7664-41-7	03/02/17

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



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.522		0				OrgNit		
Total Nitrogen(as N)	0.573		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
Fecal Coliform	1.11	mpn/100mL	1.00	1.00	1.00	10333688	COLILERT-18	E761792	02/15/17 01:25 PM
TSS	20.4	mg/L	1.00	1.00	2.00	10333697	SM2540 D	E1642818	02/15/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333726	EPA245.1	7439-97-6	02/16/17
Enterococci	11.1	mpn/100mL	10.0	10.0	10.0	10333770	ENTEROLERT		02/15/17 10:30 AM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10333819	EPA200.7	7439-89-6	02/16/17
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10333902	EPA365.1	14265-44-2	02/17/17 07:10 AM
Nitrate(as N)	0.0512	mg/L	1.00	0.0100	0.0200	10333909	EPA353.2	14797-55-8	02/16/17 03:00 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10333909	EPA353.2	14797-65-0	02/16/17 03:00 PM
Chloride	23100	mg/L	300	1200	2400	10333931	SM4500-CI E	16887-00-6	02/17/17
Aluminum	0.0248	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7429-90-5	02/16/17
Arsenic	0.00460	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-38-2	02/16/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10334007	EPA200.8	7440-43-9	02/16/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-47-3	02/16/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7439-92-1	02/16/17
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10334007	EPA200.8	7440-02-0	02/16/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10334007	EPA200.8	7440-66-6	02/16/17
Chlorophyll a	0.250	ug/L	1.00	0.0200	0.150	10334072	SM10200 H	479-61-8	02/15/17
TDS	39500	mg/L	1.00	2.50	5.00	10334113	SM2540 C	10-33-3	02/17/17
TKN(as N)	0.522	mg/L	1.00	0.200	0.400	10334243	EPA351.2	7727-37-9	02/22/17
Total Phosphorus(as P)	0.0132	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
TOC	1.00 U	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17
Sulfate	4320	mg/L	30.0	150	300	10335478	EPA375.2	14808-79-8	03/09/17
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10335663	EPA350.1	7664-41-7	03/02/17



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Quality Report

Quality Control Batch: 10274203

Analyst: PCW

Blank	Result	Units
Unionized NH3(as N)	0.000100U	mg/L

Quality Control Batch: 10333688

Analyst: TDC

Blank	Result	Units
Fecal Coliform	1.00U	mpn/100mL

Quality Control Batch: 10333697

Analyst: TDC

Blank	Result	Units
TSS	1.00U	mg/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
TSS	102	mg/L	100	50.00-150.00

Quality Control Batch: 10333726

Analyst: EVB

Blank	Result	Units
Mercury	0.0000200U	mg/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
Mercury	0.00106	mg/L	0.00100	106.30

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00313	mg/L	0.00300	103.89	80.00-120.00

Matrix Spike Duplicate

Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
--------	-------	-------	------	----------	--------	-----	---------



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Quality Control Batch: 10333726	Analyst: EVB							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00309	mg/L	0.00300	102.59	80.00-120.00	0.0000143	1.25	20.00
Quality Control Batch: 10333770	Analyst: TDC							
Blank	Result	Units						
Enterococci	1.00U	mpn/100mL						
Quality Control Batch: 10333819	Analyst: EVB							
Blank	Result	Units						
Iron	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Iron	5.17	mg/L	5.00	103.45	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Iron	5.34	mg/L	5.00	106.71	70.00-130.00	0.0100U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	5.21	mg/L	5.00	104.12	70.00-130.00	0.0100U	2.45	20.00
Quality Control Batch: 10333902	Analyst: PCW							
Blank	Result	Units						
Orthophosphate(as P)	0.00544	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Orthophosphate(as P)	1.05	mg/L	1.00	105.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Orthophosphate(as P)	0.502	mg/L	0.500	100.40	85.00-115.00	0.0200U		



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Quality Control Batch: 10333902		Analyst: PCW						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Orthophosphate(as P)	0.530	mg/L	0.500	106.00	85.00-115.00	0.0200U	5.43	20.00
Quality Control Batch: 10333909		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)	0.970	mg/L	1.00	97.00	85.00-115.00			
Nitrite(as N)	1.12	mg/L	1.00	112.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Nitrite(as N)	4.85	mg/L	4.00	118.57	85.00-115.00	0.107		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrite(as N)	4.86	mg/L	4.00	118.83	85.00-115.00	0.107	0.21	20.00
Quality Control Batch: 10333931		Analyst: VLB						
Blank	Result	Units						
Chloride	4.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chloride	45.2	mg/L	50.0	90.34	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	146	mg/L	100	103.49	80.00-120.00	42.7		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	139	mg/L	100	96.34	80.00-120.00	42.7	5.01	20.00



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Quality Control Batch: 10334007		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		0.107	mg/L	0.100	106.90	85.00-115.00			
Arsenic		0.102	mg/L	0.100	101.80	85.00-115.00			
Cadmium		0.0928	mg/L	0.100	92.80	85.00-115.00			
Chromium		0.103	mg/L	0.100	103.30	85.00-115.00			
Lead		0.106	mg/L	0.100	106.20	85.00-115.00			
Nickel		0.106	mg/L	0.100	106.10	85.00-115.00			
Zinc		0.102	mg/L	0.100	102.10	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Aluminum		0.134	mg/L	0.100	134.10	70.00-130.00	0.0100U		
Arsenic		0.131	mg/L	0.100	130.90	70.00-130.00	0.00100U		
Cadmium		0.113	mg/L	0.100	112.70	70.00-130.00	0.000200U		
Chromium		0.114	mg/L	0.100	113.60	70.00-130.00	0.00100U		
Lead		0.112	mg/L	0.100	112.30	70.00-130.00	0.00100U		
Nickel		0.117	mg/L	0.100	115.60	70.00-130.00	0.00160		
Zinc		0.116	mg/L	0.100	107.90	70.00-130.00	0.00790		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum		0.125	mg/L	0.100	125.10	70.00-130.00	0.0100U	6.94	20.00
Arsenic		0.123	mg/L	0.100	123.10	70.00-130.00	0.00100U	6.14	20.00



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Quality Control Batch: 10334007		Analyst: EVB							
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Cadmium		0.103	mg/L	0.100	102.50	70.00-130.00	0.000200U	9.48	20.00
Chromium		0.105	mg/L	0.100	104.90	70.00-130.00	0.00100U	7.96	20.00
Lead		0.106	mg/L	0.100	105.50	70.00-130.00	0.00100U	6.24	20.00
Nickel		0.113	mg/L	0.100	111.10	70.00-130.00	0.00160	3.91	20.00
Zinc		0.115	mg/L	0.100	107.00	70.00-130.00	0.00790	0.78	20.00

Quality Control Batch: 10334072		Analyst: TRB		
Blank		Result	Units	
Chlorophyll a		0.0200U	ug/L	

Quality Control Batch: 10334113		Analyst: PLB		
Blank		Result	Units	
TDS		2.50U	mg/L	

Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim
TDS		1490	mg/L	1500	99.07	50.00-150.00

Quality Control Batch: 10334243		Analyst: VLB		
Blank		Result	Units	
TKN(as N)		0.200U	mg/L	

Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim
TKN(as N)		2.96	mg/L	3.00	98.66	85.00-115.00

Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample
TKN(as N)		2.91	mg/L	3.00	78.48	80.00-120.00	0.555



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	2.93	mg/L	3.00	79.34	80.00-120.00	0.555	0.88	20.00

Quality Control Batch: 10334368

Analyst: CCP

Blank	Result	Units
Total Phosphorus(as P)	0.00200U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Phosphorus(as P)	0.465	mg/L	0.500	92.98	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Total Phosphorus(as P)	0.196	mg/L	0.200	93.72	85.00-115.00	0.00833

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.197	mg/L	0.200	94.54	85.00-115.00	0.00833	0.83	20.00

Quality Control Batch: 10335174

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	108.51	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
TOC	19.6	mg/L	10.0	78.41	80.00-120.00	11.7

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC	20.4	mg/L	10.0	86.77	80.00-120.00	11.7	4.18	20.00

Quality Control Batch: 10335478

Analyst: PCW

Blank	Result	Units
-------	--------	-------



FLOWERS CHEMICAL LABORATORIES INC.

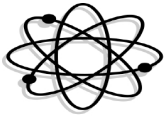
P.O. Box 150597, Altamonte Springs, FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986
812 SW Harvey Green Dr, Madison, FL 32340
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

Quality Control Batch: 10335478		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	65.7	mg/L	50.0	93.20	85.00-115.00	19.1		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	62.2	mg/L	50.0	86.20	85.00-115.00	19.1	5.47	20.00
Quality Control Batch: 10335663		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.486	mg/L	0.500	97.20	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	2.50	mg/L	0.780	89.74	85.00-115.00	1.80		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	2.50	mg/L	0.780	89.74	85.00-115.00	1.80	0.00	20.00



FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

PO #: 16975
Client Project #: Cudjoe Key WWTP -Q- SW's
Date Sampled: Feb 15, 2017
Mar 10, 2017; Invoice: 323569

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.