

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

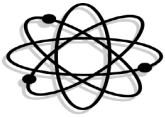
PO #: n/a
Client Project #: Cudjoe Key-M-SW
Date Sampled: Jan 8, 2016
Feb 2, 2016; Invoice: 287686

Report Summary

Date Received: Jan 13, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
287686SW1	C-23	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
287686SW2	C-22	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
287686SW3	C-21	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
287686SW4	CK-5	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
287686SW5	CK-8	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
287686SW6	CK-14	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	



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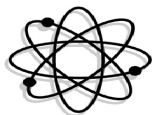
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		TotNit			
287686SW7	CK-26	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		TotNit			
287686SW8	CK-1	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	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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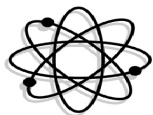
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Analysis Report

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
287686SW1	01/08/16 08:00 AM	C-23	Organic Nitrogen	0.424		0				OrgNit		
			Total Nitrogen(as N)	0.424		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
			NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
			TKN(as N)	0.424	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
			Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16
287686SW2	01/08/16 08:10 AM	C-22	Organic Nitrogen	0.350		0				OrgNit		
			Total Nitrogen(as N)	0.350		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
			NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
			TKN(as N)	0.350 I	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
			Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16
287686SW3	01/08/16 08:20 AM	C-21	Organic Nitrogen	0.372		0				OrgNit		
			Total Nitrogen(as N)	0.372		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
			NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16



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Lab #: 287686SW3 **Sampled:** 01/08/16 08:20 AM **Desc:** C-21

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
TKN(as N)	0.372 I	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

Lab #: 287686SW4 **Sampled:** 01/08/16 08:35 AM **Desc:** CK-5

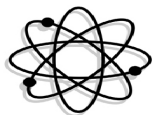
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.374		0				OrgNit		
Total Nitrogen(as N)	0.374		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
TKN(as N)	0.374 I	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

Lab #: 287686SW5 **Sampled:** 01/08/16 08:45 AM **Desc:** CK-8

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.414		0				OrgNit		
Total Nitrogen(as N)	0.414		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
TKN(as N)	0.414	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

Lab #: 287686SW6 **Sampled:** 01/08/16 09:05 AM **Desc:** CK-14

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.342		0				OrgNit		



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Lab #: 287686SW6 Sampled: 01/08/16 09:05 AM Desc: CK-14

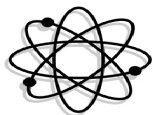
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.342		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
TKN(as N)	0.342 I	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

Lab #: 287686SW7 Sampled: 01/08/16 09:20 AM Desc: CK-26

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.346		0				OrgNit		
Total Nitrogen(as N)	0.346		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
TKN(as N)	0.346 I	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

Lab #: 287686SW8 Sampled: 01/08/16 09:45 AM Desc: CK-1

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.426		0				OrgNit		
Total Nitrogen(as N)	0.451		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.0588	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10301553	EPA353.2	I-005	01/18/16
Ammonia (as N)	0.0588	mg/L	1.00	0.0100	0.0200	10301673	EPA350.1	7664-41-7	01/18/16
Chlorophyll a	1.28 I	mg/m3	1.00	1.00	2.00	10301882	SM10200 H	479-61-8	01/22/16
TKN(as N)	0.485	mg/L	1.00	0.200	0.400	10302540	EPA351.2	7727-37-9	01/20/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16



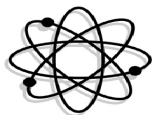
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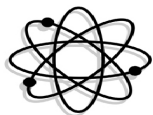
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Quality Report

Quality Control Batch: 10274203		Analyst: PCW						
Blank	Result	Units						
Unionized NH3(as N)	0.000100U	mg/L						
Quality Control Batch: 10301553		Analyst: PCW						
Blank	Result	Units						
NO3+NO2(as N)	0.0200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
NO3+NO2(as N)	2.01	mg/L	2.00	100.50	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
NO3+NO2(as N)	11.4	mg/L	4.00	103.25	85.00-115.00	7.27		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
NO3+NO2(as N)	11.2	mg/L	4.00	98.25	85.00-115.00	7.27	1.77	20.00
Quality Control Batch: 10301673		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.510	mg/L	0.500	102.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.767	mg/L	0.780	101.10	85.00-115.00	-0.0216		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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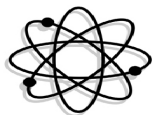
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Quality Control Batch: 10301673	Analyst: PCW							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.812	mg/L	0.780	106.87	85.00-115.00	-0.0216	5.70	20.00
Quality Control Batch: 10301882	Analyst: ECG							
Blank	Result	Units						
Chlorophyll a	1.00U	mg/m3						
Quality Control Batch: 10302540	Analyst: VLB							
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	2.89	mg/L	3.00	96.47	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.03	mg/L	3.00	86.80	80.00-120.00	0.424		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.18	mg/L	3.00	91.85	80.00-120.00	0.424	4.88	20.00
Quality Control Batch: 10302542	Analyst: VLB							
Blank	Result	Units						
Total Phosphorus(as P)	0.0000100	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	0.521	mg/L	0.500	104.12	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.188	mg/L	0.200	94.07	85.00-115.00	0.0400U		



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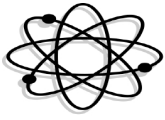
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812 SW Harvey Green Dr, Madison, FL 32340
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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 #: n/a
Client Project #: Cudjoe Key-M-SW
Date Sampled: Jan 8, 2016
Feb 2, 2016; Invoice: 287686

Quality Control Batch: 10302542	Analyst: VLB							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.188	mg/L	0.200	93.98	85.00-115.00	0.0400U	0.10	20.00



FLOWERS CHEMICAL LABORATORIES INC.

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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.