

# 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

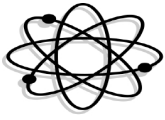
PO #: 15352  
Client Project #: Cudjoe Key WWTP -M- SW's  
Date Sampled: Oct 14, 2016  
Oct 26, 2016; Invoice: 312519

## Report Summary

Date Received: Oct 14, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
312519SW1	C-23	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
312519SW2	C-22	TotNit			
		EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
SM10200 H	TRB	Main Lab			
312519SW3	C-21	TotNit			
		EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
SM10200 H	TRB	Main Lab			
312519SW4	CK-5	TotNit			
		EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
SM10200 H	TRB	Main Lab			
312519SW5	CK-8	TotNit			
		EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
SM10200 H	TRB	Main Lab			
312519SW6	CK-14	TotNit			
		EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
SM10200 H	TRB	Main Lab			
		TotNit			



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312519SW7	C-26	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		TotNit			
312519SW8	CK-1	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		TotNit			

### Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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## Analysis Report

**Lab #:** 312519SW1 **Sampled:** 10/14/16 08:10 AM **Desc:** C-23

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.269		0				OrgNit		
Total Nitrogen(as N)	0.269		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10323752	EPA353.2	I-005	10/19/16
TKN(as N)	0.269 I	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0188	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324193	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.140 I	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16

**Lab #:** 312519SW2 **Sampled:** 10/14/16 08:20 AM **Desc:** C-22

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.292		0				OrgNit		
Total Nitrogen(as N)	0.292		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10323752	EPA353.2	I-005	10/19/16
TKN(as N)	0.292 I	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0157	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324193	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.230	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16

**Lab #:** 312519SW3 **Sampled:** 10/14/16 08:30 AM **Desc:** C-21

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.282		0				OrgNit		
Total Nitrogen(as N)	0.312		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0294 I	mg/L	1.00	0.0200	0.0400	10323752	EPA353.2	I-005	10/19/16
TKN(as N)	0.282 I	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0192	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324193	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.200	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16



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**Lab #:** 312519SW4 **Sampled:** 10/14/16 08:45 AM **Desc:** CK-5

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.261		0				OrgNit		
Total Nitrogen(as N)	0.261		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10323752	EPA353.2	I-005	10/19/16
TKN(as N)	0.261 I	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0175	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324193	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.110 I	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16

**Lab #:** 312519SW5 **Sampled:** 10/14/16 08:55 AM **Desc:** CK-8

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.271		0				OrgNit		
Total Nitrogen(as N)	0.271		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10323752	EPA353.2	I-005	10/19/16
TKN(as N)	0.271 I	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0168	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324193	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.130 I	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16

**Lab #:** 312519SW6 **Sampled:** 10/14/16 09:25 AM **Desc:** CK-14

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.259		0				OrgNit		
Total Nitrogen(as N)	0.259		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10323752	EPA353.2	I-005	10/19/16
TKN(as N)	0.259 I	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0166	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324193	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.100 I	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16



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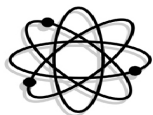
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**Lab #: 312519SW7    Sampled: 10/14/16 09:40 AM    Desc: C-26**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.251		0				OrgNit		
Total Nitrogen(as N)	0.251		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10323910	EPA353.2	I-005	10/19/16
TKN(as N)	0.251 I	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0220	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324194	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.140 I	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16

**Lab #: 312519SW8    Sampled: 10/14/16 10:15 AM    Desc: CK-1**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.567		0				OrgNit		
Total Nitrogen(as N)	0.567		0				TotNit	17778-88-0	
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10323752	EPA353.2	I-005	10/19/16
TKN(as N)	0.567	mg/L	1.00	0.200	0.400	10323983	EPA351.2	7727-37-9	10/20/16
Total Phosphorus(as P)	0.0196	mg/L	1.00	0.00200	0.00400	10324152	EPA365.1	7723-14-0	10/24/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10324194	EPA350.1	7664-41-7	10/24/16
Chlorophyll a	0.280	ug/L	1.00	0.0200	0.150	10324399	SM10200 H	479-61-8	10/14/16



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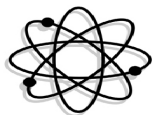
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## Quality Report

Quality Control Batch: 10323752		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
NO3+NO2(as N)	0.0200U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
NO3+NO2(as N)	2.02	mg/L	2.00	101.00	85.00-115.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>		
NO3+NO2(as N)	4.28	mg/L	4.00	107.00	85.00-115.00	0.0200U		
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
NO3+NO2(as N)	4.24	mg/L	4.00	106.00	85.00-115.00	0.0200U	0.94	20.00
Quality Control Batch: 10323983		Analyst: VLB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
TKN(as N)	0.200U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
TKN(as N)	2.84	mg/L	3.00	94.76	80.00-120.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>		
TKN(as N)	3.49	mg/L	3.00	89.73	80.00-120.00	0.799		
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
TKN(as N)	3.60	mg/L	3.00	93.50	80.00-120.00	0.799	3.18	20.00
Quality Control Batch: 10324152		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						



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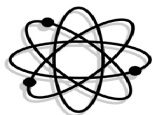
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Quality Control Batch: 10324152		Analyst: PCW						
Blank	Result	Units						
Total Phosphorus(as P)	0.00200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	0.449	mg/L	0.470	95.53	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.164	mg/L	0.200	73.99	85.00-115.00	0.0157		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.168	mg/L	0.200	76.32	85.00-115.00	0.0157	2.81	20.00
Quality Control Batch: 10324193		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.488	mg/L	0.500	97.60	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.831	mg/L	0.780	102.26	85.00-115.00	0.0334		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.793	mg/L	0.780	97.38	85.00-115.00	0.0334	4.68	20.00
Quality Control Batch: 10324194		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			



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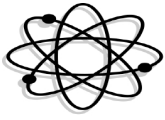
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Quality Control Batch: 10324194		Analyst: PCW							
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)		0.548	mg/L	0.500	109.60	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)		0.752	mg/L	0.780	92.15	85.00-115.00	0.0332		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)		0.696	mg/L	0.780	84.97	85.00-115.00	0.0332	7.73	20.00
Quality Control Batch: 10324399		Analyst: TRB							
Blank		Result	Units						
Chlorophyll a		0.0200U	ug/L						





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Marathon, FL 33050

PO #: 15352  
Client Project #: Cudjoe Key WWTP -M- SW's  
Date Sampled: Oct 14, 2016  
Oct 26, 2016; Invoice: 312519

## 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.