

# 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

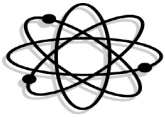
PO #: n/a  
Client Project #: Cudjoe Key-M-SW + MW  
Date Sampled: Jan 20, 2016  
Feb 15, 2016; Invoice: 288560

## Report Summary

Date Received: Jan 26, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
288560GW1	OW-1	EPA350.1	PCW	Main Lab	Ground Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
288560GW2	OW-3	EPA350.1	PCW	Main Lab	Ground Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
288560GW3	OW-5	EPA350.1	PCW	Main Lab	Ground Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
288560GW4	OW-4	EPA350.1	PCW	Main Lab	Ground Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
288560GW5	OW-2	EPA350.1	PCW	Main Lab	Ground Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
288560SW1	C-24	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	



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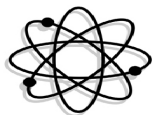
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		TotNit			
288560SW2	CK-3	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		TotNit			
288560SW3	CK-2	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		TotNit			
288560SW4	CK-25	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	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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## Analysis Report

**Lab #:** 288560GW1 **Sampled:** 01/20/16 10:50 AM **Desc:** OW-1

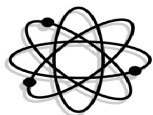
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	1.07		0				OrgNit		
Total Nitrogen(as N)	1.14		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000246	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	1.11	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
Total Phosphorus(as P)	0.0515 I	mg/L	1.00	0.0400	0.100	10302675	EPA365.4	7723-14-0	01/27/16
NO3+NO2(as N)	0.0243 I	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Ammonia (as N)	0.0385	mg/L	1.00	0.0100	0.0200	10303185	EPA350.1	7664-41-7	02/05/16

**Lab #:** 288560GW2 **Sampled:** 01/20/16 11:35 AM **Desc:** OW-3

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	2.16		0				OrgNit		
Total Nitrogen(as N)	4.27		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.0129	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	4.20	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
Total Phosphorus(as P)	0.937	mg/L	1.00	0.0400	0.100	10302675	EPA365.4	7723-14-0	01/27/16
NO3+NO2(as N)	0.0640	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Ammonia (as N)	2.04	mg/L	1.00	0.0100	0.0200	10303185	EPA350.1	7664-41-7	02/05/16

**Lab #:** 288560GW3 **Sampled:** 01/20/16 12:00 AM **Desc:** OW-5

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	2.28		0				OrgNit		
Total Nitrogen(as N)	3.23		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.00399	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	3.21	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16



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**Lab #:** 288560GW3 **Sampled:** 01/20/16 12:00 AM **Desc:** OW-5

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Phosphorus(as P)	0.0879 I	mg/L	1.00	0.0400	0.100	10302675	EPA365.4	7723-14-0	01/27/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Ammonia (as N)	0.929	mg/L	1.00	0.0100	0.0200	10303185	EPA350.1	7664-41-7	02/05/16

**Lab #:** 288560GW4 **Sampled:** 01/21/16 07:51 AM **Desc:** OW-4

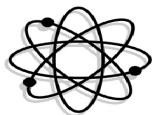
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.696		0				OrgNit		
Total Nitrogen(as N)	0.770		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	0.706	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302675	EPA365.4	7723-14-0	01/27/16
NO3+NO2(as N)	0.0639	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10303185	EPA350.1	7664-41-7	02/05/16

**Lab #:** 288560GW5 **Sampled:** 01/21/16 08:20 AM **Desc:** OW-2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.279		0				OrgNit		
Total Nitrogen(as N)	3.14		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	0.289 I	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302675	EPA365.4	7723-14-0	01/27/16
NO3+NO2(as N)	2.85	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10303185	EPA350.1	7664-41-7	02/05/16

**Lab #:** 288560SW1 **Sampled:** 01/20/16 09:25 AM **Desc:** C-24

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.419		0				OrgNit		



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PO #: n/a  
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Date Sampled: Jan 20, 2016  
Feb 15, 2016; Invoice: 288560

**Lab #:** 288560SW1 **Sampled:** 01/20/16 09:25 AM **Desc:** C-24

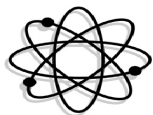
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.449		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	0.429	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10302622	EPA350.1	7664-41-7	02/01/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10303605	EPA365.1	7723-14-0	02/12/16

**Lab #:** 288560SW2 **Sampled:** 01/20/16 09:35 AM **Desc:** CK-3

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.533		0				OrgNit		
Total Nitrogen(as N)	0.563		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	0.543	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10302622	EPA350.1	7664-41-7	02/01/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10303605	EPA365.1	7723-14-0	02/12/16

**Lab #:** 288560SW3 **Sampled:** 01/20/16 09:40 AM **Desc:** CK-2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.498		0				OrgNit		
Total Nitrogen(as N)	0.528		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	0.508	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10303185	EPA350.1	7664-41-7	02/05/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10303605	EPA365.1	7723-14-0	02/12/16



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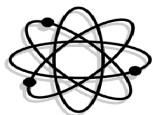
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Lab #: 288560SW4    Sampled: 01/20/16 12:20 PM    Desc: CK-25									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.483		0				OrgNit		
Total Nitrogen(as N)	0.572		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000477	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/05/16
TKN(as N)	0.495	mg/L	1.00	0.200	0.400	10302289	EPA351.2	7727-37-9	01/27/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10302549	SM10200 H	479-61-8	01/29/16
NO3+NO2(as N)	0.0762	mg/L	1.00	0.0200	0.0400	10303002	EPA353.2	I-005	02/04/16
Ammonia (as N)	0.0123 I	mg/L	1.00	0.0100	0.0200	10303185	EPA350.1	7664-41-7	02/05/16
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10303605	EPA365.1	7723-14-0	02/12/16



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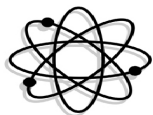
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## Quality Report

<b>Quality Control Batch:</b> 10274203		<b>Analyst:</b> PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Unionized NH3(as N)	0.000100U	mg/L						
<b>Quality Control Batch:</b> 10302289		<b>Analyst:</b> 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	94.75	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)	3.51	mg/L	3.00	107.30	80.00-120.00	0.289		
<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)	3.52	mg/L	3.00	107.65	80.00-120.00	0.289	0.30	20.00
<b>Quality Control Batch:</b> 10302549		<b>Analyst:</b> ECG						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Chlorophyll a	1.00U	mg/m3						
<b>Quality Control Batch:</b> 10303002		<b>Analyst:</b> PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
NO3+NO2(as N)	0.0200U	mg/L						



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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 + MW  
Date Sampled: Jan 20, 2016  
Feb 15, 2016; Invoice: 288560

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
NO3+NO2(as N)	2.08	mg/L	2.00	104.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
NO3+NO2(as N)	4.05	mg/L	4.00	101.25	85.00-115.00	0.0200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
NO3+NO2(as N)	3.98	mg/L	4.00	99.50	85.00-115.00	0.0200U	1.74	20.00
<b>Quality Control Batch: 10303185</b>		<b>Analyst: PCW</b>						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.481	mg/L	0.500	96.20	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	1.05	mg/L	0.780	108.97	85.00-115.00	0.200		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	1.04	mg/L	0.780	107.69	85.00-115.00	0.200	0.96	20.00
<b>Quality Control Batch: 10303605</b>		<b>Analyst: PCW</b>						
Blank	Result	Units						
Total Phosphorus(as P)	0.0400U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	0.496	mg/L	0.500	99.15	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.192	mg/L	0.200	85.76	85.00-115.00	0.0209		





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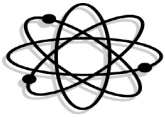
P.O. Box 150597, Altamonte Springs, FL 32715-0597  
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<b>Quality Control Batch:</b> 10303605	<b>Analyst:</b> PCW							
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Total Phosphorus(as P)	0.193	mg/L	0.200	85.99	85.00-115.00	0.0209	0.24	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.  
Surface water samples were tested by phosphorus method 365.1 due to high salt content that has been found to cause interferences.

### 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.