

# 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

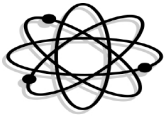
PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 17, 2015  
Dec 3, 2015; Invoice: 282815

## Report Summary

Date Received: Nov 17, 2015

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
282815SW1	C-24	EPA1600	TDC	Keys Lab	Surface Water
		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	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	
282815SW2	CK-2	EPA1600	TDC	Keys Lab	Surface Water
		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	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	
282815SW3	CK-3	EPA1600	TDC	Keys Lab	Surface Water
		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	



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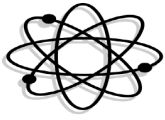
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		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
282815SW4	CK-1	EPA1600	TDC	Keys Lab	Surface Water
		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	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			
282815SW5	C-25	EPA1600	TDC	Keys Lab	Surface Water
		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	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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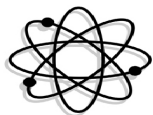
282815SW6	CK-8	TotNit			
		EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	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			

### 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:										
282815SW1	11/17/15 01:45 PM	C-24	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
			Organic Nitrogen	0.674		0				OrgNit		
			Total Nitrogen(as N)	0.674		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		11/30/15
			Enterococci	13.0	cfu/100mL	1.00	1.00	1.00	10296691	EPA1600		11/17/15 04:50 PM
			Fecal Coliform	2.00	cfu/100mL	1.00	1.00	1.00	10296692	SM9222 D	E761792	11/17/15 05:00 PM
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10296759	EPA365.1	14265-44-2	11/19/15 11:01 AM
			Sulfate	2500	mg/L	50.0	250	500	10296890	EPA375.2	14808-79-8	11/20/15
			Chloride	24300	mg/L	400	1600	3200	10296918	SM4500-Cl E	16887-00-6	11/21/15
			TDS	36800	mg/L	1.00	2.50	5.00	10296924	SM2540 C	10-33-3	11/19/15
			TKN(as N)	0.674	mg/L	1.00	0.200	0.400	10296926	EPA351.2	7727-37-9	11/20/15
			Aluminum	0.0844	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7429-90-5	11/19/15
			Arsenic	0.00330	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-38-2	11/19/15
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10296963	EPA200.8	7440-43-9	11/19/15
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-47-3	11/19/15
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7439-92-1	11/19/15
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-02-0	11/19/15
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7440-66-6	11/19/15
			TSS	27.3	mg/L	1.00	1.00	2.00	10297075	SM2540 D	E1642818	11/20/15
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297189	EPA245.1	7439-97-6	11/25/15
			Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297410	EPA353.2	14797-55-8	11/19/15 10:19 AM
			Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297410	EPA353.2	14797-65-0	11/19/15 10:19 AM
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297491	EPA350.1	7664-41-7	11/30/15
			Chlorophyll a	1.01 I	mg/m3	1.00	1.00	2.00	10297554	SM10200 H	479-61-8	11/19/15
			TOC	2.79	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
			Iron	0.0468	mg/L	1.00	0.0100	0.0200	10299983	EPA200.7	7439-89-6	11/19/15
			Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302880	EPA365.1	7723-14-0	01/29/16



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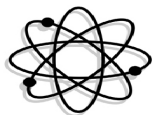
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Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.689		0				OrgNit		
Total Nitrogen(as N)	0.709		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		11/30/15
Enterococci	11.0	cfu/100mL	1.00	1.00	1.00	10296691	EPA1600		11/17/15 04:50 PM
Fecal Coliform	6.00	cfu/100mL	1.00	1.00	1.00	10296692	SM9222 D	E761792	11/17/15 05:00 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10296759	EPA365.1	14265-44-2	11/19/15 11:01 AM
Sulfate	2900	mg/L	50.0	250	500	10296890	EPA375.2	14808-79-8	11/20/15
Chloride	21800	mg/L	300	1200	2400	10296918	SM4500-CI E	16887-00-6	11/21/15
TDS	37000	mg/L	1.00	2.50	5.00	10296924	SM2540 C	10-33-3	11/19/15
TKN(as N)	0.689	mg/L	1.00	0.200	0.400	10296926	EPA351.2	7727-37-9	11/20/15
Aluminum	0.210	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7429-90-5	11/19/15
Arsenic	0.00390	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-38-2	11/19/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10296963	EPA200.8	7440-43-9	11/19/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-47-3	11/19/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7439-92-1	11/19/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-02-0	11/19/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7440-66-6	11/19/15
TSS	34.4	mg/L	1.00	1.00	2.00	10297075	SM2540 D	E1642818	11/20/15
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297189	EPA245.1	7439-97-6	11/25/15
Nitrate(as N)	0.0204	mg/L	1.00	0.0100	0.0200	10297410	EPA353.2	14797-55-8	11/19/15 10:19 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297410	EPA353.2	14797-65-0	11/19/15 10:19 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297491	EPA350.1	7664-41-7	11/30/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297554	SM10200 H	479-61-8	11/19/15
TOC	1.70 I	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0589	mg/L	1.00	0.0100	0.0200	10299983	EPA200.7	7439-89-6	11/19/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302880	EPA365.1	7723-14-0	01/29/16

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



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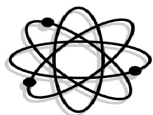
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Organic Nitrogen	0.620		0				OrgNit		
Total Nitrogen(as N)	0.695		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		11/30/15
Enterococci	10.0	cfu/100mL	1.00	1.00	1.00	10296691	EPA1600		11/17/15 04:50 PM
Fecal Coliform	48.0	cfu/100mL	1.00	1.00	1.00	10296692	SM9222 D	E761792	11/17/15 05:00 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10296759	EPA365.1	14265-44-2	11/19/15 11:01 AM
Sulfate	2540	mg/L	50.0	250	500	10296890	EPA375.2	14808-79-8	11/20/15
Chloride	25300	mg/L	300	1200	2400	10296918	SM4500-CI E	16887-00-6	11/21/15
TDS	36300	mg/L	1.00	2.50	5.00	10296924	SM2540 C	10-33-3	11/19/15
TKN(as N)	0.620	mg/L	1.00	0.200	0.400	10296926	EPA351.2	7727-37-9	11/20/15
Aluminum	0.0571	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7429-90-5	11/19/15
Arsenic	0.00370	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-38-2	11/19/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10296963	EPA200.8	7440-43-9	11/19/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-47-3	11/19/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7439-92-1	11/19/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-02-0	11/19/15
Zinc	0.0100 I	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7440-66-6	11/19/15
TSS	11.9	mg/L	1.00	1.00	2.00	10297075	SM2540 D	E1642818	11/20/15
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297189	EPA245.1	7439-97-6	11/25/15
Nitrate(as N)	0.0752	mg/L	1.00	0.0100	0.0200	10297410	EPA353.2	14797-55-8	11/19/15 10:19 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297410	EPA353.2	14797-65-0	11/19/15 10:19 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297491	EPA350.1	7664-41-7	11/30/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297554	SM10200 H	479-61-8	11/19/15
TOC	1.44 I	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0160 I	mg/L	1.00	0.0100	0.0200	10299983	EPA200.7	7439-89-6	11/19/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302880	EPA365.1	7723-14-0	01/29/16

Lab #:	Sampled:	Desc:							
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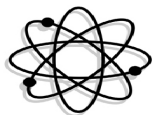
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Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.864		0				OrgNit		
Total Nitrogen(as N)	1.05		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000969	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		11/30/15
Enterococci	2.00	cfu/100mL	1.00	1.00	1.00	10296691	EPA1600		11/17/15 04:50 PM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10296692	SM9222 D	E761792	11/17/15 05:00 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10296759	EPA365.1	14265-44-2	11/19/15 11:01 AM
Sulfate	2420	mg/L	50.0	250	500	10296890	EPA375.2	14808-79-8	11/20/15
Chloride	27300	mg/L	300	1200	2400	10296918	SM4500-CI E	16887-00-6	11/21/15
TDS	37700	mg/L	1.00	2.50	5.00	10296924	SM2540 C	10-33-3	11/19/15
TKN(as N)	1.00	mg/L	1.00	0.200	0.400	10296926	EPA351.2	7727-37-9	11/20/15
Aluminum	0.118	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7429-90-5	11/19/15
Arsenic	0.00330	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-38-2	11/19/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10296963	EPA200.8	7440-43-9	11/19/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-47-3	11/19/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7439-92-1	11/19/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-02-0	11/19/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7440-66-6	11/19/15
TSS	15.3	mg/L	1.00	1.00	2.00	10297075	SM2540 D	E1642818	11/20/15
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297189	EPA245.1	7439-97-6	11/25/15
Nitrate(as N)	0.0454	mg/L	1.00	0.0100	0.0200	10297410	EPA353.2	14797-55-8	11/19/15 10:19 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297410	EPA353.2	14797-65-0	11/19/15 10:19 AM
Ammonia (as N)	0.140	mg/L	1.00	0.0100	0.0200	10297492	EPA350.1	7664-41-7	11/30/15
Chlorophyll a	1.07 I	mg/m3	1.00	1.00	2.00	10297554	SM10200 H	479-61-8	11/19/15
TOC	1.66 I	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0291	mg/L	1.00	0.0100	0.0200	10299983	EPA200.7	7439-89-6	11/19/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302880	EPA365.1	7723-14-0	01/29/16

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



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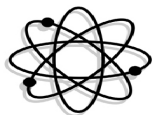
Florida Keys Aqueduct Authority-WWTP  
3375 Overseas Hwy  
Marathon, FL 33050

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 17, 2015  
Dec 3, 2015; Invoice: 282815

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.799		0				OrgNit		
Total Nitrogen(as N)	0.847		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		11/30/15
Enterococci	3.00	cfu/100mL	1.00	1.00	1.00	10296691	EPA1600		11/17/15 04:50 PM
Fecal Coliform	2.00	cfu/100mL	1.00	1.00	1.00	10296692	SM9222 D	E761792	11/17/15 05:00 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10296759	EPA365.1	14265-44-2	11/19/15 11:01 AM
Sulfate	2640	mg/L	50.0	250	500	10296890	EPA375.2	14808-79-8	11/20/15
Chloride	21400	mg/L	300	1200	2400	10296918	SM4500-CI E	16887-00-6	11/21/15
TDS	38200	mg/L	1.00	2.50	5.00	10296924	SM2540 C	10-33-3	11/19/15
TKN(as N)	0.799	mg/L	1.00	0.200	0.400	10296926	EPA351.2	7727-37-9	11/20/15
Aluminum	0.0422	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7429-90-5	11/19/15
Arsenic	0.00380	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-38-2	11/19/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10296963	EPA200.8	7440-43-9	11/19/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-47-3	11/19/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7439-92-1	11/19/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-02-0	11/19/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7440-66-6	11/19/15
TSS	23.1	mg/L	1.00	1.00	2.00	10297075	SM2540 D	E1642818	11/20/15
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297189	EPA245.1	7439-97-6	11/25/15
Nitrate(as N)	0.0678	mg/L	1.00	0.0100	0.0200	10297410	EPA353.2	14797-55-8	11/19/15 10:19 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297410	EPA353.2	14797-65-0	11/19/15 10:19 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297492	EPA350.1	7664-41-7	11/30/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297554	SM10200 H	479-61-8	11/19/15
TOC	2.26	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0117 I	mg/L	1.00	0.0100	0.0200	10299983	EPA200.7	7439-89-6	11/19/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302880	EPA365.1	7723-14-0	01/29/16

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





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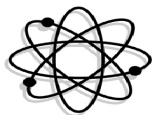
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Florida Keys Aqueduct Authority-WWTP  
3375 Overseas Hwy  
Marathon, FL 33050

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 17, 2015  
Dec 3, 2015; Invoice: 282815

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.406		0				OrgNit		
Total Nitrogen(as N)	0.440		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		11/30/15
Enterococci	5.00	cfu/100mL	1.00	1.00	1.00	10296691	EPA1600		11/17/15 04:50 PM
Fecal Coliform	10.0	cfu/100mL	1.00	1.00	1.00	10296692	SM9222 D	E761792	11/17/15 05:00 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10296759	EPA365.1	14265-44-2	11/19/15 11:01 AM
Sulfate	2790	mg/L	50.0	250	500	10296890	EPA375.2	14808-79-8	11/20/15
Chloride	25900	mg/L	300	1200	2400	10296918	SM4500-CI E	16887-00-6	11/21/15
TDS	37900	mg/L	1.00	2.50	5.00	10296924	SM2540 C	10-33-3	11/19/15
TKN(as N)	0.406	mg/L	1.00	0.200	0.400	10296926	EPA351.2	7727-37-9	11/20/15
Aluminum	0.0366	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7429-90-5	11/19/15
Arsenic	0.00370	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-38-2	11/19/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10296963	EPA200.8	7440-43-9	11/19/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-47-3	11/19/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7439-92-1	11/19/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10296963	EPA200.8	7440-02-0	11/19/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10296963	EPA200.8	7440-66-6	11/19/15
TSS	11.7	mg/L	1.00	1.00	2.00	10297075	SM2540 D	E1642818	11/20/15
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297189	EPA245.1	7439-97-6	11/25/15
Nitrate(as N)	0.0342	mg/L	1.00	0.0100	0.0200	10297410	EPA353.2	14797-55-8	11/19/15 10:19 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297410	EPA353.2	14797-65-0	11/19/15 10:19 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297492	EPA350.1	7664-41-7	11/30/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297554	SM10200 H	479-61-8	11/19/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10299983	EPA200.7	7439-89-6	11/19/15
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302880	EPA365.1	7723-14-0	01/29/16



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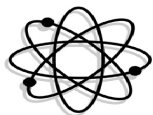
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Florida Keys Aqueduct Authority-WWTP  
3375 Overseas Hwy  
Marathon, FL 33050

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 17, 2015  
Dec 3, 2015; Invoice: 282815

## 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> 10296691	<b>Analyst:</b> TDC								
<b>Blank</b>	<b>Result</b>	<b>Units</b>							
Enterococci	1.00U	cfu/100mL							
<b>Quality Control Batch:</b> 10296692	<b>Analyst:</b> TDC								
<b>Blank</b>	<b>Result</b>	<b>Units</b>							
Fecal Coliform	1.00U	cfu/100mL							
<b>Quality Control Batch:</b> 10296759	<b>Analyst:</b> PCW								
<b>Blank</b>	<b>Result</b>	<b>Units</b>							
Orthophosphate(as P)	0.00200U	mg/L							
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>				
Orthophosphate(as P)	0.943	mg/L	1.00	94.32	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>			
Orthophosphate(as P)	0.413	mg/L	0.500	82.54	85.00-115.00	0.00200U			
<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>	
Orthophosphate(as P)	0.437	mg/L	0.500	87.50	85.00-115.00	0.00200U	5.83	20.00	



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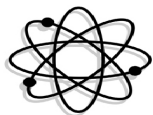
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Marathon, FL 33050

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 17, 2015  
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Quality Control Batch: 10296890		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Sulfate	5.00U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Sulfate	61.1	mg/L	60.0	101.83	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>		
Sulfate	56.0	mg/L	50.0	72.20	85.00-115.00	19.9		
<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>
Sulfate	54.3	mg/L	50.0	68.80	85.00-115.00	19.9	3.08	20.00
Quality Control Batch: 10296918		Analyst: VLB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Chloride	4.00U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Chloride	19.7	mg/L	20.0	98.25	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>		
Chloride	97.9	mg/L	50.0	92.54	85.00-115.00	51.6		
<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>
Chloride	96.9	mg/L	50.0	90.46	85.00-115.00	51.6	1.07	20.00
Quality Control Batch: 10296924		Analyst: PLB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
TDS	2.50U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			



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Quality Control Batch: 10296924		Analyst: PLB				
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim
TDS		1520	mg/L	1500	101.47	50.00-150.00

Quality Control Batch: 10296926		Analyst: VLB				
Blank		Result	Units			
TKN(as N)		0.200U	mg/L			

Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim
TKN(as N)		2.95	mg/L	3.00	98.50	80.00-120.00

Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample
TKN(as N)		3.90	mg/L	3.00	103.54	80.00-120.00	0.799

Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)		3.94	mg/L	3.00	104.56	80.00-120.00	0.799	0.78	20.00

Quality Control Batch: 10296963		Analyst: EVB				
Blank		Result	Units			
Aluminum		0.0200U	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		0.199	mg/L	0.200	99.45	85.00-115.00
Arsenic		0.214	mg/L	0.200	107.15	85.00-115.00



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Client Project #: Cudjoe Key Quarterly Surface Water  
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**Quality Control Batch: 10296963      Analyst: EVB**

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Cadmium	0.188	mg/L	0.200	94.10	85.00-115.00
Chromium	0.196	mg/L	0.200	97.75	85.00-115.00
Lead	0.187	mg/L	0.200	93.25	85.00-115.00
Nickel	0.204	mg/L	0.200	102.15	85.00-115.00
Zinc	0.203	mg/L	0.200	101.65	85.00-115.00

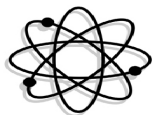
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	0.249	mg/L	0.200	86.40	70.00-130.00	0.0760
Arsenic	0.186	mg/L	0.200	91.45	70.00-130.00	0.00300
Cadmium	0.181	mg/L	0.200	90.30	70.00-130.00	0.000200U
Chromium	0.171	mg/L	0.200	85.45	70.00-130.00	0.00100U
Lead	0.177	mg/L	0.200	88.25	70.00-130.00	0.00100U
Nickel	0.179	mg/L	0.200	89.50	70.00-130.00	0.00100U
Zinc	0.181	mg/L	0.200	86.80	70.00-130.00	0.00710

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.248	mg/L	0.200	85.75	70.00-130.00	0.0760	0.52	20.00
Arsenic	0.184	mg/L	0.200	90.40	70.00-130.00	0.00300	1.14	20.00
Cadmium	0.181	mg/L	0.200	90.30	70.00-130.00	0.000200U	0.00	20.00
Chromium	0.188	mg/L	0.200	93.85	70.00-130.00	0.00100U	9.37	20.00
Lead	0.177	mg/L	0.200	88.40	70.00-130.00	0.00100U	0.17	20.00
Nickel	0.197	mg/L	0.200	98.35	70.00-130.00	0.00100U	9.42	20.00
Zinc	0.182	mg/L	0.200	87.65	70.00-130.00	0.00710	0.94	20.00

**Quality Control Batch: 10297075      Analyst: PLB**

Blank	Result	Units
TSS	1.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
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 3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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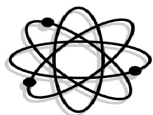
Florida Keys Aqueduct Authority-WWTP  
 3375 Overseas Hwy  
 Marathon, FL 33050

PO #: Revised 2/5/16  
 Client Project #: Cudjoe Key Quarterly Surface Water  
 Date Sampled: Nov 17, 2015  
 Dec 3, 2015; Invoice: 282815

Quality Control Batch: 10297075		Analyst: PLB				
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim
TSS		82.0	mg/L	84.0	97.62	50.00-150.00

Quality Control Batch: 10297189		Analyst: EVB							
Blank		Result	Units						
Mercury		0.0308	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Mercury		0.00107	mg/L	0.00100	107.30	80.00-120.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Mercury		0.00316	mg/L	0.00300	105.24	80.00-120.00	0.00000580		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury		0.00316	mg/L	0.00300	105.24	80.00-120.00	0.00000580	0.00	20.00

Quality Control Batch: 10297410		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)		0.920	mg/L	1.00	92.00	85.00-115.00			
Nitrite(as N)		1.07	mg/L	1.00	107.00	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Nitrite(as N)		4.19	mg/L	4.00	104.75	85.00-115.00	0.0200U		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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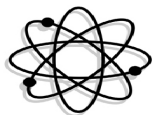
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Quality Control Batch: 10297410		Analyst: PCW						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrite(as N)	4.31	mg/L	4.00	107.75	85.00-115.00	0.0200U	2.82	20.00
Quality Control Batch: 10297491		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.523	mg/L	0.500	104.60	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.792	mg/L	0.780	96.68	85.00-115.00	0.0379		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.788	mg/L	0.780	96.17	85.00-115.00	0.0379	0.51	20.00
Quality Control Batch: 10297492		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.492	mg/L	0.500	98.40	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	1.35	mg/L	0.780	99.74	85.00-115.00	0.572		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	1.34	mg/L	0.780	98.46	85.00-115.00	0.572	0.74	20.00



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<b>Quality Control Batch:</b> 10297554	<b>Analyst:</b> ECG	
<b>Blank</b>	<b>Result</b>	<b>Units</b>
Chlorophyll a	1.00U	mg/m3

<b>Quality Control Batch:</b> 10297713	<b>Analyst:</b> PCW	
<b>Blank</b>	<b>Result</b>	<b>Units</b>
TOC	1.00U	mg/L

<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
TOC	10.9	mg/L	10.0	109.32	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>
TOC	8.13	mg/L	10.0	53.44	80.00-120.00	2.79

<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>
TOC	7.48	mg/L	10.0	46.98	80.00-120.00	2.79	8.28	20.00

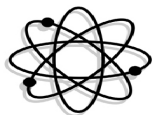
<b>Quality Control Batch:</b> 10299983	<b>Analyst:</b> EVB	
<b>Blank</b>	<b>Result</b>	<b>Units</b>
Iron	0.0100U	mg/L

<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Iron	5.37	mg/L	5.00	107.46	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>
Iron	5.00	mg/L	5.00	99.63	70.00-130.00	0.0210

<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>
Iron	5.00	mg/L	5.00	99.65	70.00-130.00	0.0210	0.02	20.00





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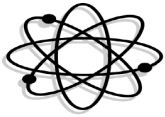
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Quality Control Batch: 10302880		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Total Phosphorus(as P)	0.0400U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Total Phosphorus(as P)	0.489	mg/L	0.500	97.75	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>		
Total Phosphorus(as P)	0.325	mg/L	0.200	112.28	85.00-115.00	0.100		
<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)	0.324	mg/L	0.200	111.96	85.00-115.00	0.100	0.19	20.00



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## Narrative Report

### Sample Handling

This report is revised to remove the EPA365.4 Total Phosphorus values that were elevated due to matrix interference. EPA365.1 was performed on the same sample aliquot, past the 28 day holding time, but scientifically a more representative value of phosphorus in salt water.  
Total Nitrogen=TKN-NO<sub>2</sub>+NO<sub>3</sub> positive hits. Organic Nitrogen=TKN-NH<sub>3</sub> positive hits.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Additional Comments

Matrix spike %REC for ortho-phosphate, sulfate and TOC are sample dependent and do not affect these results. The LCS validates the analyses.

### 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.