

LOWERS CHEMICAL LABORATORIES ING.

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)

Island Water Association 3651 Sanibel-Captiva Road Sanibel,FL 33957 PO #: n/a Client Project #: Monthly Injection Well DMW Date Sampled: Dec 3, 2019 Dec 12, 2019; Invoice: 420780

Report Summary

Date Received: Dec 4, 2019

FCL Project Manager: Kathryn M. Nordmark

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix			
420780GW1	DMW	EPA120.1	IAD	Main Lab	Ground Water			
		EPA350.1	PCW	Main Lab				
		EPA351.2	VLB	Main Lab				
		EPA375.2	GDP	Main Lab				
		SM2540 C	PLB	Main Lab				
		SM4500-CI E	VLB	Main Lab				
		SM4500-H B	IAD	Main Lab				

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 #: 420780GW1	Sampled: 12/03	/19 09:00 AM	Desc: DMW								
Parameter		Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Specific_Conductance	9	50700	umhos/cm	1.00	1.00	2.00	10420688	EPA120.1	10-34-4	12/04/19	
Lab pH (units)		7.50 Q	pН	1.00	0.0100	0.0200	10420692	SM4500-H B	39-38-4	12/04/19	04:13 PM
TDS		35300	mg/L	1.00	2.50	5.00	10420795	SM2540 C	10-33-3	12/05/19	
TKN(as N)		0.905	mg/L	1.00	0.200	0.400	10420809	EPA351.2	7727-37-9	12/05/19	
Sulfate		2980	mg/L	20.0	100	200	10420915	EPA375.2	14808-79-8	12/05/19	
Chloride		18500	mg/L	200	800	1600	10421085	SM4500-CI E	16887-00-6	12/07/19	
Ammonia (as N)		0.166	mg/L	1.00	0.0100	0.0200	10421230	EPA350.1	7664-41-7	12/11/19	



TKN(as N)



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Quality Report

Quality Control Batch: 10420688	Analyst: IAD									
Blank	Result	Units								
Specific_Conductance	ductance 1.00U u									
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim					
Specific_Conductance	1000	umhos/cm	1000	100.00	80.00-120.00					

Quality Control Batch: 10420795	Analyst: PLB	3					
Blank	Result	Units					
TDS	2.50U	mg/L					
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim		
TDS	1490	mg/L	1500	99.07	80.00-120.00		
Duplicate	Result	Units	Sample	RPD	RPD Lim	Lab Number	
TDS	622	mg/L	654	5.02	20.00	420740GW1	
Quality Control Batch: 10420809	Analyst: VLB	5					
Blank	Result	Units					
TKN(as N)	0.200U	mg/L					
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim		
TKN(as N)	2.81	mg/L	3.00	93.76	90.00-110.00		
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number

99.46

90.00-110.00

0.494

420780GW1

3.00

mg/L

3.48



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Quality Control Batch: 10420809	Analyst: V	Analyst: VLB													
Matrix Spike Duplicate TKN(as N)	Result 3.48	Units mg/L	Spike 3.00	%REC 99.46	%REC Lim 90.00-110.00	Sample 0.494	RPD 0.00	RPD Lim 20.00							
Quality Control Batch: 10420915	Analyst:	SDP													
Blank	Result	Units													
Sulfate	5.00U	mg/L													
Laboratory Control Sample	Result 47 4	Units ma/l	Spike 50.0	%REC 94 80	%REC Lim										
Cullato		iiig/E	00.0	01.00	00.00 110.00										
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Numbe	r							
Sulfate	92.1	2.1 mg/L 50.0		101.60	101.60 90.00-110.00		420678GW1	<i>N</i> 1							
Matrix Spike Duplicate Sulfate	Result 92.6	Units mg/L	Spike 50.0	%REC 102.60	%REC Lim 90.00-110.00	Sample 41.3	RPD 0.54	RPD Lim 20.00							
Quality Control Batch: 10421085	Analyst: V	/LB													
Blank Chloride	Result 4.00U	Units mg/L													
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim										
Chloride	161	mg/L	150	107.33	80.00-120.00										
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Numbe	r							
Chloride	114	mg/L	100	102.70	80.00-120.00	11.3	420768GW1	420768GW1							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim							
Chloride	114	mg/L	100	102.70	80.00-120.00	11.3	0.00	20.00							



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Quality Control Batch: 10421230	Analyst: PCW													
Blank	Result	Units												
Ammonia (as N)	0.0100U	mg/L												
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim									
Ammonia (as N)	1.98	mg/L	2.00	99.00	90.00-110.00									
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number							
Ammonia (as N)	1.86	mg/L	1.40	102.64	90.00-110.00	0.423	420778GW1							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim						
Ammonia (as N)	1.86	mg/L	1.40	102.64	90.00-110.00	0.423	0.00	20.00						



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. 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

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
Р	Present
Т	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
Μ	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.
0	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
В	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.

Check Box th	hat Applies to your location																			
□ Flowers Cf Laboratories, 481 New Altamont Bus: 407 Fax: 407	□ Flowers Chemical □ Flowers Chemical □ Flowers Chemical □ Flowers Chemical Laboratories, Inc. Labs - South Labs - North 481 Newburyport Ave West Park Industrial Plaza 812 SW Harvey Attamonte Springs, FL 32701 571 NW Mercantile Pl., Ste 111 Madion, FL 327 Bus: 407-399-5984 Port St. Lucie, FL 34986 Bus: 850-973-66 Fax: 407-260-6110 Bus: 772-343-8006 Fax: 850-973-66 Fax: 407-260-6110 Bus: 772-343-8009 Fax: 850-973-66			☐ Flowers Chemical Labs - Keys 3980 Overseas Hwy, Ste. 103 40 Marathon, FL 33050 78 Bus: 305-743-8598 78 Fax: 305-743-8598						03	CHEMICAL LABORATORIES									
Client Islan	d Water Association			7.	30	29 Project f	Name Mor	nthly Ir	njection	n Weil	DMW		P.O. #		1 N	CORPO	RATE	D		
						Client Co	ontact Bra	ndon	Henke				Fax (239) 4	172-1505						
Address 36	51 Sanibel-Captiva R	d. Sanibel, FL 339	957			FCL Pro Due Dat	ject Manag e 10 day	er Kath	ryn No	rdmar	k		Email brando	n@islandwater.c	om					
Phone (239	9) 472-2113					standard		OR	L	1	1	Rush Charges May	y Apply							
	Paris	1/	- 4	2		Pick up Fee	\$		Vehicle Surcharg	g \$		Sampling Fee	s						-	
Sampled by	(Print) JAANU	170 / Th	2 16 -	<u> </u>																
Sempler Sign	Table C	ing water	Date Samples	12-3-	19															
SWesurface	swater S-soil/soli	d SL-sludge	HW-waste	- Citar				Preser	vatives			Analyses Requeste	ьd							
item No	Sample ID	Date	Time	Matrix	H 20 Fb0 (Lab use only) Lab Number	None	H2SO4	HNO3	нсі	Na2S203	Other	pH, Cond, C, SO4, TDS	TKN, NH3						Comments	No of Containe
1	DMW	12.3-19	0900	GW	GWI	x	x					x	x							
2																				_
3												_								
4								-					1	1			1			
5											-									
6							+	-		+									+	
7								-		+							+			
8						-	-	-		-	-									
9							-			+										1
Relinquished	d by/Affiliation	Date	Time	Received by	/Affiliation		Date	Time	Relinquis	shed by//	Affiliation		Date	Time	Received by/Aff	liation	- L		Date	Time
1	34	12-3-19	120	>											17	nc /12	n		12/4	10!

Finance Charges Applied to Past Due Invoices

4,300

Shcet1