



WATER • MINERAL • ENERGY

Layne Report for the  
**Seminole Tribe of Florida**

Public Works Water Plant  
Brighton Indian Reservation

Well Acidization of UFA-2

Sampling of UFA-1

## **Seminole Brighton WTP**

### **UFA-2**

#### **Well Acidization**

November 30, 2016, preconstruction and walk thru onsite at STOF.

On January 10<sup>th</sup> 2017, Layne cut 16" pipe and machined to fabricate adapters to fit the existing well casing for well headers.

On January 16<sup>th</sup>, Layne shop has acid header modified to fit 16" and made plan for pumping acid.

On January 18<sup>th</sup> Rental equipment delivery is set up, Layne equipment and material is gathered for job.

On January 19<sup>th</sup>, Layne crew checked test pump to be used and cleaned risers up, an adapter made to fit test pump to pipe made, crew checked fittings on acid header before loading on trailer to take to job site.

On January 20<sup>th</sup>, Layne crew onsite to take delivery of Baker poly tanks to store acid, tanks are set up in secondary containment.

On January 23<sup>rd</sup>, Layne Crew arrives onsite, frac tanks start arriving and start filling with water from well for use as chase water for acid. Xylem delivered pump for chase water, Layne acid tubing arrives on site.

On January 24<sup>th</sup> Layne crew arrives with light tower and scaffold, remaining frac tanks arrive and are hooked up and filled. Two frac tanks are set in secondary containment for venting acid if necessary.

On January 25<sup>th</sup>, Layne crew working on headers hooking tanks together. First tanker of acid arrives and is put into Baker poly tank for storage, two pallets of soda ash arrive and are set on plastic and wrapped..

On January 26<sup>th</sup>, Layne crew takes delivery of second tanker of acid.

Crew moved to well FA1 and went thru check list for setting the test pump.

The generator from Pensacola is bad, called to get rental generator.

On January 30<sup>th</sup>, Layne crew killed well FA2 and installed acid tubing, sealed well with acid header, then brought well back alive and had salt plug hauled off site.

The crew then moved and set test pump in well FA1 and lay out hoses for discharge.

On February 1<sup>st</sup>, Layne crew set up containment for cementer, cementer arrives on site, crew laid out hoses from well to cementer. Crew set anchors around well to tie down header. Crew tested hoses and fittings pumping water.

On February 2<sup>nd</sup>, Layne began acid operations at UFA-2. 8000 gallons of 32% inhibited acid was pumped in batches of 1000 and 2000 gallons at a rate between 50 and 80 gallons per minute with a 5000 gallon water flush between stages. Upon completion of the final acid batch, 10,000 gallons of water was flushed and the well was sealed in. Pressure was monitored over a 10 day period with pressures ranging between 8 and 9 psi each day.

On February 13<sup>th</sup>, post-acid development operations began. Discharge water and brackish acid byproducts from UFA-2 were stored in frac tanks and neutralized with soda ash and hauled to an off-site facility. On February 16<sup>th</sup>, well development operations continued. After exceeding the volume of acid and water pumped during acid operations, pH results determined that the step rate testing would be delayed and a change order was initiated.

On February 16<sup>th</sup> and 20<sup>th</sup> (6) Tanker loads of post acid water were removed from the site. Loads are listed below. (Manifest are attached to this report)

February 16<sup>th</sup> Truck # T-21 6,550 gallons.

February 16<sup>th</sup> Truck # MT-23 6,550 gallons.  
February 16<sup>th</sup> Truck # MT-12 6,250 gallons.  
February 20<sup>th</sup> Truck # T-21 5,000 gallons.  
February 20<sup>th</sup> Truck # MT-12 6,250 gallons.  
February 20<sup>th</sup> Truck # MT-23 6,550 gallons.

## **UFA-1**

### **2 Rate Well Sampling**

On February 6<sup>th</sup>, the 5 consecutive day water sampling began on UFA-1. The well was pumped at 750 gpm for 2 hours and samples were collected by Florida Spectrum Environmental Services. The rate was increased to 1000 gpm and pumped for 2 hours and samples were collected again. This process was repeated daily during the week of 2/6 thru 2/10 as listed below:

February 6, Start pumping at 10:56 AM

February 7, Start pumping at 7:57 AM

February 8, Start pumping at 8:10 AM

February 9, Start pumping at 8:01AM

February 10, Start pumping at 8:06 AM

The water analysis reports are attached to this report. The reports are titled 2.6.17 to 2.10.17 Layne Christensen Brighton WTP- Well UFA-1

Work on site was put on hold from February 20<sup>th</sup> until April 17<sup>th</sup> while the STOF determined a solution for disposal of the high PH test water from the well UFA-1

## UFA-2

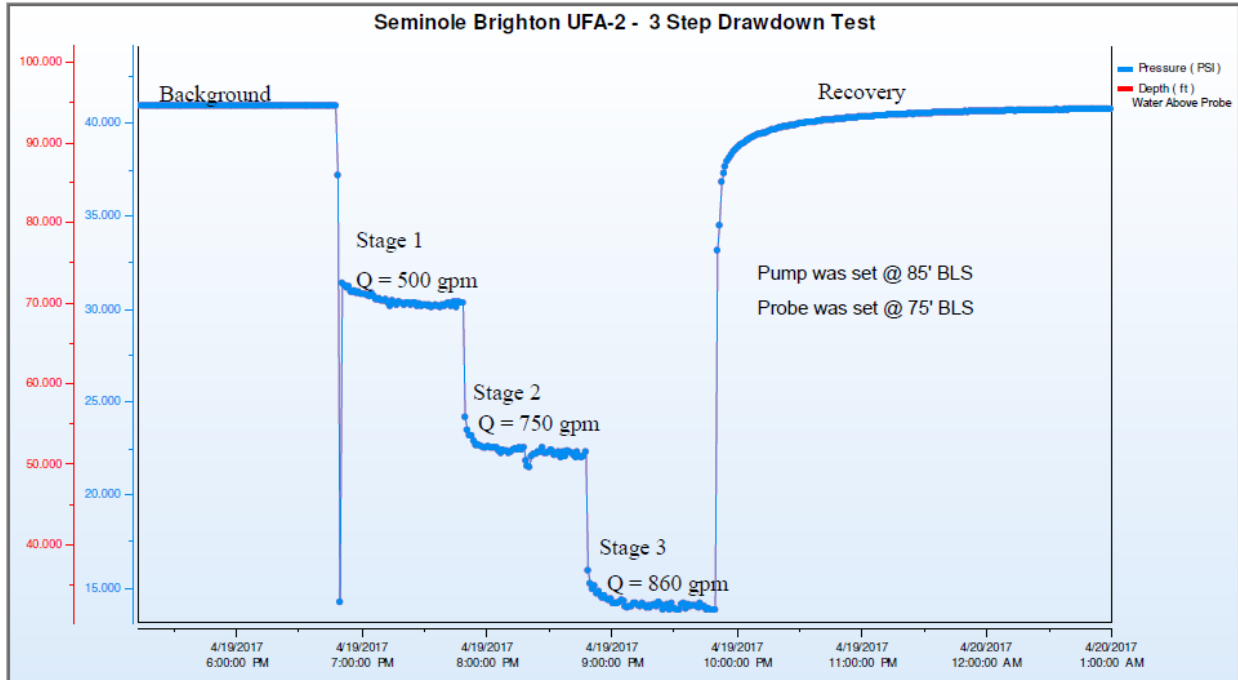
### 3 Step Drawdown Testing

On April 17<sup>th</sup>, operations resumed, Layne returned to UFA-2 and removed the acid tubing and installed the test pump in preparation for step test. Tubing trailer left site.

On April 18<sup>th</sup> Layne crew arrived onsite, offload pump and hose from Xylem, for pumping water from the tanks to the water plant. Rental generator from Sunbelt rentals arrived on site. Each tank was pumped into the next so a valve and header could be installed. The transducer was installed into the well.

On April 19<sup>th</sup>, Layne crew finished hooking tanks together, laid pipeline to where we can hook to STOF pipe. When STOF plant operator gave the word we hooked into STOF pipeline and laid hose at plant from pipe to pond and started emptying tanks. After tanks were empty crew prepared for step rate test. As soon as test was over crew put pipeline back together so STOF could run the well.

UFA-2 was pumped at three separate, steady pumping rates of 60 minutes per step. The rates increased incrementally beginning at 500 gpm increased to 750 gpm and finishing with 860 gpm. The pump was set at a depth of 85' below land surface. A transducer was lowered to a depth of 75' below land surface. Background data was collected for approximately 24 hours prior to starting the pump testing. The drawdown data was collected during each step followed by approximately 36 hours of recovery data. The graph below illustrates the water levels during this activity.



On April 20<sup>th</sup> Layne crew arrived onsite to start demobilizing, breaking down hoses and headers. Sunbelt picked up rental generator.

On April 21<sup>st</sup> Layne crew pulled transducer from well, pulled test pump and secured the well. Loaded hoses, pipe, and light tower on Xylem truck. Clean up site.

On April 25<sup>th</sup>, Layne was onsite as frac tanks began getting picked up, portable toilet was picked up.

On April 26<sup>th</sup>, the last frac tank was picked up, Layne had a final walkthrough with Jason from STOF and Carlton from CH.

# NON-HAZARDOUS WASTE MANIFEST

BT

721

Please print or type

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <u>L99NE</u>		Manifest Document No. <u>1702322</u>	2. Page 1 of
3. Generator's Name and Mailing Address <u>Seminole Tribe of Florida Tucker Ridge Rd Okeechobee FL</u>					
4. Generator's Phone ( )					
5. Transporter 1 Company Name <u>AQUA CLEAN ENVIRON</u>		6. US EPA ID Number <u>FLR000034033</u>		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address <u>AQUA CLEAN ENVIRON 3210 WHITTEN RD Ireland FL 33811</u>		10. US EPA ID Number <u>FLR000034033</u>		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone <u>863)644-0665</u>	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a.			No.	Type	
<u>NON HAZ GROUND waste water</u>			1	T	6550 C
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. I also certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.					
Printed/Typed Name <u>X Carl Wittenborn</u>		Signature <u>[Signature]</u>		Date Month Day Year <u>2 16 17</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <u>Alberto Mandujano</u>		Signature <u>[Signature]</u>		Date Month Day Year <u>2 16 17</u>	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <u>JOSE G</u>		Signature <u>[Signature]</u>		Date Month Day Year <u>2 16 17</u>	

NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER FACILITY



# NON-HAZARDOUS WASTE MANIFEST

BT

Please print or type

MT23

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address		Seminole Tribe of FL 1125 BIA Hwy			
4. Generator's Phone ( )		Okeechobee, FL 34974			
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
Aqua Clean		FLR000034033		B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
Aqua Clean 3210 Whitten Rd Lakeland, FL 33811		FLR000034033		F. Facility's Phone	
				863-644-0665	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
			No.	Type	
a. Ground waste water			1	T	6,550 G
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					

NON-HAZARDOUS WASTE

GENERATOR

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. I also certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Printed/Typed Name		Signature		Date	
Curt Wittenborn				2   16   17	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
Clemens Davis				2   16   17	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	
Jose G				2   16   17	



TRANSPORTER

FACILITY



# NON-HAZARDOUS WASTE MANIFEST

BT MT-12

Please print or type

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address <i>Seminole Tribe of FL 1125 B 1A Hwy 282 CN Tucker Okeechobee FL</i>					
4. Generator's Phone		6. US EPA ID Number <i>FLR000034033</i>		A. State Transporter's ID	
5. Transporter 1 Company Name <i>Aqua Clean</i>		8. US EPA ID Number		B. Transporter 1 Phone	
7. Transporter 2 Company Name		10. US EPA ID Number <i>FLR000034033</i>		C. State Transporter's ID	
9. Designated Facility Name and Site Address <i>Aqua Clean</i>		F. Facility's Phone <i>863-644-0665</i>		D. Transporter 2 Phone	
E. State Facility's ID		11. WASTE DESCRIPTION			
		12. Containers		13. Total Quantity	
		No. Type		14. Unit Wt./Vol.	
a. <i>Ground Waste Water</i>		<i>1 TT</i>		<i>6250 gals.</i>	
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <i>Thank You!</i>					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. I also certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.					
Printed/Typed Name <i>Carl Wittenborn</i>		Signature <i>[Signature]</i>		Date <i>2/14/17</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>Ron Ham</i>		Date <i>2/16/17</i>	
Printed/Typed Name		Signature		Date	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <i>Jose</i>		Signature <i>[Signature]</i>		Date <i>2/16/17</i>	

NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER

FACILITY



# NON-HAZARDOUS WASTE MANIFEST

T21 BT15

Please print or type

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address		SEMINOLE TRIBE OF FLORIDA TUCKER RIDGE RD OKEECHOBEE FL		
4. Generator's Phone ( )				
5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID		
AQUA CLEAN ENVIRON	FIR000034033	B. Transporter 1 Phone		
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID		
		D. Transporter 2 Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number	E. State Facility's ID	
AQUA CLEAN ENVIRON 3210 WHITTEN RD LAKELAND FL 33811		FIR000034033	F. Facility's Phone	
		863) 644-0665		

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. NON HAZ GROUND WASTE WATER	1	T	<del>6550</del>	G
b.			5,000	
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above
loaded 3,000 gal on truck Ace paper	

15. Special Handling Instructions and Additional Information

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. I also certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Printed/Typed Name	Signature	Date
x Alicia Tule	x	2   20   17

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date
Alberdo MANDINEZ		2   20   17

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name	Signature	Date
Sebastian Navedo		2   20   17

NON-HAZARDOUS WASTE





# NON-HAZARDOUS WASTE MANIFEST

BT MT-12

Please print or type

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of	
3. Generator's Name and Mailing Address <i>Seminole Tribe of Fl. 1125 B Hwy 282 N. Tucker Okeechobee Fl. 34974</i>						
4. Generator's Phone ( )		6. US EPA ID Number <i>FL000034033</i>		A. State Transporter's ID		
5. Transporter 1 Company Name <i>Aguz Clean</i>		8. US EPA ID Number		B. Transporter 1 Phone		
7. Transporter 2 Company Name				C. State Transporter's ID		
9. Designated Facility Name and Site Address <i>Aguz Clean 3219 Whitten Rd. Lakeland, Fl. 33811</i>		10. US EPA ID Number <i>FL000034033</i>		D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone		
11. WASTE DESCRIPTION <i>Ground Waste Water</i>			12. Containers		13. Total Quantity	14. Unit Wt./Vol.
			No.	Type		
a.			1	TT	6250	gals.
b.						
c.						
d.						
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>Thank You</i>						
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. I also certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.						
Printed/Typed Name <i>Joe Towle</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2/20/17</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <i>Ron Ham</i>		Signature <i>Ron Ham</i>		Date Month Day Year <i>2/20/17</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Date Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.						
Printed/Typed Name <i>Jose G</i>		Signature <i>[Signature]</i>		Date Month Day Year <i>2/20/17</i>		

NON-HAZARDOUS WASTE GENERATOR



BT

# NON-HAZARDOUS WASTE MANIFEST

MT23

Please print or type

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address Seminole Tribe of FL 1125 BFA Hwy 282 Okeechobee, FL 34974							
4. Generator's Phone ( )		6. US EPA ID Number		A. State Transporter's ID			
		FLR000034033		B. Transporter 1 Phone			
5. Transporter 1 Company Name Aqua Clean		8. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name				D. Transporter 2 Phone			
9. Designated Facility Name and Site Address Aqua Clean 3210 Whitten Rd Lakeland, FL 33811		10. US EPA ID Number FLR000034033		E. State Facility's ID			
				F. Facility's Phone 863-644-0665			
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	14. Unit Wt./Vol.
a.				No.		Type	
Ground Waste water				1		T	6,550 G
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
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Printed/Typed Name Ace Towle				Signature <i>[Signature]</i>		Date 2   20   17	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Cleon Davis				Signature Cleon Davis		Date 2   20   17	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name Jose [Signature]				Signature Jose [Signature]		Date 2   20   17	

NON-HAZARDOUS WASTE GENERATOR

TRANSPORTER

FACILITY





Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 1 of 5  
 Report Printed: 2/13/2017  
 Work Order # 17B0174  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0174-01  
 Client Sample ID: Well UFA-1 100% Flow Rate  
 Matrix: Water

Collection Date: 02/06/17 14:25  
 Received Date: 02/06/17 18:25  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Field Parameter (s)

Specific Conductance (field)	1930		uS/cm	1	1	3	EPA 120.1	02/06 14:25	02/06 14:25	BM
pH (Field)	7.32		pH Units	1	0.100	0.300	SM4500-H+-B	02/06 14:25	02/06 14:25	BM
Temperature	27.6		°C	1	1.00	1.00	EPA 170.1	02/06 14:25	02/06 14:25	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	89.9		mg/L	1	2.00	6.00	EPA 310.2	02/08 17:22	02/08 17:22	SA
Ammonia as N	0.0668		mg/L	1	0.0140	0.0420	EPA 350.1	02/08 10:31	02/08 10:31	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/07 18:12	02/07 18:12	DGK
Silica, Total (SiO2)	13.5		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/07 13:35	02/07 13:35	SA
Sulfide	2.47	J-3	mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1080		mg/L	1	10.0	30.0	TDS SM 2540C	02/10 15:30	02/13 15:30	AR
Total Organic Carbon	0.775		mg/L	1	0.168	0.504	TOC SM 5310C	02/08 14:47	02/08 15:12	SA
Total Suspended Solids	18.0		mg/L	1	1.00	3.00	TSS SM 2540D	02/09 17:00	02/10 13:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	427		mg/L	1			EPA 200.7 Calc	02/07 14:00	02/08 09:02	MAZ
Iron	0.0212		mg/L	1	0.00200	0.00600	EPA 200.7	02/07 14:00	02/07 19:10	MAZ
Strontium	23.9		mg/L	50	0.0105	0.0315	EPA 200.7	02/07 14:00	02/08 09:02	MAZ

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 2 of 5  
 Report Printed: 2/13/2017  
 Work Order # 17B0174  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0174-02  
 Client Sample ID: Well UFA-1 100% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/06/17 14:25  
 Received Date: 02/06/17 18:25  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Field Parameter (s)

Specific Conductance (field)	1933		uS/cm	1	1	3	EPA 120.1	02/06 14:25	02/06 14:25	BM
pH (Field)	7.31		pH Units	1	0.100	0.300	SM4500-H+-B	02/06 14:25	02/06 14:25	BM
Temperature	27.5		°C	1	1.00	1.00	EPA 170.1	02/06 14:25	02/06 14:25	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	91.1		mg/L	1	2.00	6.00	EPA 310.2	02/08 17:22	02/08 17:22	SA
Ammonia as N	0.0696		mg/L	1	0.0140	0.0420	EPA 350.1	02/08 10:31	02/08 10:31	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/07 18:12	02/07 18:12	DGK
Silica, Total (SiO2)	14.2		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/07 13:35	02/07 13:35	SA
Sulfide	3.04		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1100		mg/L	1	10.0	30.0	TDS SM 2540C	02/10 15:30	02/13 15:30	AR
Total Organic Carbon	0.765		mg/L	1	0.168	0.504	TOC SM 5310C	02/08 14:47	02/08 15:21	SA
Total Suspended Solids	1.00	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/09 17:00	02/10 13:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	423		mg/L	1			EPA 200.7 Calc	02/07 14:00	02/08 09:06	MAZ
Iron	0.0213		mg/L	1	0.00200	0.00600	EPA 200.7	02/07 14:00	02/07 19:14	MAZ
Strontium	23.8		mg/L	50	0.0105	0.0315	EPA 200.7	02/07 14:00	02/08 09:06	MAZ

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 3 of 5  
 Report Printed: 2/13/2017  
 Work Order # 17B0174  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0174-03  
 Client Sample ID: Well UFA-1 125% Flow Rate  
 Matrix: Water

Collection Date: 02/06/17 16:18  
 Received Date: 02/06/17 18:25  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Field Parameter (s)

Specific Conductance (field)	1929		uS/cm	1	1	3	EPA 120.1	02/06 16:18	02/06 16:18	BM
pH (Field)	7.63		pH Units	1	0.100	0.300	SM4500-H+-B	02/06 16:18	02/06 16:18	BM
Temperature	28.2		°C	1	1.00	1.00	EPA 170.1	02/06 16:18	02/06 16:18	BM

Wet Chemistry

Sulfide	2.98		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	3.60		mg/L	1	1.00	3.00	TSS SM 2540D	02/09 17:00	02/10 13:00	AR

Florida-Spectrum Environmental Services, Inc.  
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 528 Gooch Rd.  
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 630 Indian St.  
 Savannah, GA 31401





Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 4 of 5  
 Report Printed: 2/13/2017  
 Work Order # 17B0174  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0174-04  
 Client Sample ID: Well UFA-1 125% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/06/17 16:18  
 Received Date: 02/06/17 18:25  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	1931		uS/cm	1	1	3	EPA 120.1	02/06 16:18	02/06 16:18	BM
pH (Field)	7.79		pH Units	1	0.100	0.300	SM4500-H+-B	02/06 16:18	02/06 16:18	BM
Temperature	27.4		°C	1	1.00	1.00	EPA 170.1	02/06 16:18	02/06 16:18	BM

Wet Chemistry

Sulfide	3.00		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	3.40		mg/L	1	1.00	3.00	TSS SM 2540D	02/09 17:00	02/10 13:00	AR

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401





**Report To:**  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

**Page 5 of 5**  
**Report Printed:** 2/13/2017  
**Work Order #** 17B0174  
**Project:**  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

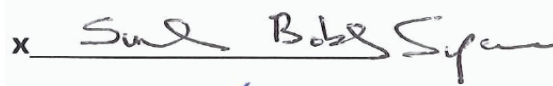
**Notes and Definitions**

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- J-3 The matrix spike recovery exceeded method acceptance limits indicating matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160  
 Unless indicated, soil results are reported on actual (wet) weight basis.  
 Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Suresh (Bobby) Supan - CSM



Authorized CSM Signature (954) 978-6400  
 Florida-Spectrum Environmental Services, Inc.  
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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 Fort Mead, FL 33841

Big Lake Laboratory  
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 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401

**SUBMISSION #**  
1780174



Logged into  
LIMS by: *[Signature]*

**CHAIN OF CUSTODY RECORD**

1460 W McNab Road Ft Lauderdale FL 33309  
 940 Alt. 27 South Babson Park, FL 33827  
 630 Indian Street Savannah, GA 31401  
 528 Gooch Road Fort Meade FL 33841

Tel: (954) 978-6400  
 Fax: (954) 978-2233  
 Tel: (863) 638-3255  
 Fax: (863) 638-3637  
 Tel: (912) 238-5050  
 Fax: (912) 234-4815  
 Tel: (863) 285-8145  
 Fax: (863) 285-7030

**DUE DATE Requested**

**RUSH RESERVATION #**

*Rush Surcharges apply*

**Original-Return w/report** Yellow-Lab File Copy Pink-Sampler Copy

**Report to: Layne Christensen Company**

**Report to**  
Address: 5061 Luckett Road, Fort Myers, FL 33905

**Invoice to: Layne Christensen Company**

**Invoice to**  
Address: 5061 Luckett Road, Fort Myers, FL 33905

**Project Name**

**Site**

**and/or Number : Brighton WTP - Well UFA-1**

**Location: 1125 BIA HWY 282, Brighton, FL**

**Phone: 239.275.1029/239.275.1025**

**Email: cbrugger@laynechristensen.com**

**Mgr: Craig Brugger**

*[Signature]*

**Sampler Name:**

**Sampler Signature:**

*[Signature]*

ORDER # Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Number of Containers Received & NELAC Letter Suffixes # A-?	Analysis Required						Field Tests			
							TSS	Total Alkalinity	Total Hardness	Ammonia	Nitrate	Strontium	TDS	P	T	C
01	Well UFA-1 100% Flow Rate	02-06-17	14:25	GW	250 ml 250 ml	67	X	X	X	X	X	X	7.32	27.6	1920	
02	Well UFA-1 100% Flow Rate Duplicate	02-06-17	14:25	GW	250 ml 250 ml	67	X	X	X	X	X	X	7.31	27.5	1933	
03	Well UFA-1 125% Flow Rate	02-06-17	16:18	GW	250 ml	2	X	X	X	X	X	X	7.63	28.2	1929	
04	Well UFA-1 125% Flow Rate Duplicate	02-06-17	16:18	GW	250 ml	2	X	X	X	X	X	X	7.79	27.4	1931	

**Special Comments:**  
I waive NELAC protocol" (sign here) >

**Deliverables:**  
 Relinquished by: *[Signature]* 02/06/17 18:25  
 Received by: *[Signature]* 02/06/17 18:25  
 Relinquished by: *[Signature]* 02/06/17 18:25

Sample Custody & Field Comments	Temp as received	C
Temp as received <i>4</i>		
Custody Seals? Y N		
Billable Field Time <u>6</u> hrs		

**c. Charges**

**QA/QC Report Needed?** Yes No (additional charge)

**Preservatives**  
 A-ascorbic acid P-H<sub>2</sub>PO<sub>4</sub>  
 C-HCL S-H<sub>2</sub>SO<sub>4</sub>  
 Cu-CuSO<sub>4</sub> T-Na<sub>2</sub>S<sub>2</sub>O<sub>7</sub>-H<sub>2</sub>O  
 H-HNO<sub>3</sub> U-Unpreserved  
 M-MCAB P-H<sub>3</sub>PO<sub>4</sub>  
 N-NaOH Z-zinc acetate  
 NH<sub>4</sub>-NH<sub>4</sub>CL

**Bottle Type**  
 A-liter amber O-125ml  
 B-Bacteria bag/bottle H-Amber Plastic  
 F-500 ml Liter  
 L-liter bottle G-Gallon  
 S-soil jar  
 T-250 ml  
 V-40 ml vial  
 W-wide mouth  
 X-other

**www.flenviro.com** COC Page 1 of 1



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 1 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0216  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0216-01  
 Client Sample ID: Well UFA-1 100% Flow Rate  
 Matrix: Water

Collection Date: 02/07/17 10:55  
 Received Date: 02/07/17 17:15  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	2029		uS/cm	1	1	3	EPA 120.1	02/07 10:55	02/07 10:55	BM
pH (Field)	7.61		pH Units	1	0.100	0.300	SM4500-H+-B	02/07 10:55	02/07 10:55	BM
sulfide (field)	0.390		mg/L	1	0.0100	0.0300	SM 4500-S D	02/07 10:55	02/07 10:55	BM
Temperature (field)	27.4		°C	1	1.00	1.00	EPA 170.1	02/07 10:55	02/07 10:55	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	90.6		mg/L	1	2.00	6.00	EPA 310.2	02/08 17:22	02/08 17:22	SA
Ammonia as N	0.0795	J-3	mg/L	1	0.0140	0.0420	EPA 350.1	02/08 10:31	02/08 10:31	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/08 17:42	02/08 17:42	DGK
Silica, Total (SiO2)	13.4		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	3.13		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1140		mg/L	1	10.0	30.0	TDS SM 2540C	02/10 15:30	02/13 15:30	AR
Total Organic Carbon	0.671		mg/L	1	0.168	0.504	TOC SM 5310C	02/08 14:47	02/08 17:16	SA
Total Suspended Solids	ND	U	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	9.04		mg/L	1			EPA 200.7 Calc	02/08 17:30	02/08 19:10	MAZ
Iron	0.0610		mg/L	1	0.00200	0.00600	EPA 200.7	02/08 17:30	02/08 19:18	MAZ
Strontium	23.4		mg/L	50	0.0105	0.0315	EPA 200.7	02/08 17:30	02/08 19:10	MAZ

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 2 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0216  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0216-02  
 Client Sample ID: Well UFA-1 100% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/07/17 10:55  
 Received Date: 02/07/17 17:15  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	2037		uS/cm	1	1	3	EPA 120.1	02/07 10:55	02/07 10:55	BM
pH (Field)	7.80		pH Units	1	0.100	0.300	SM4500-H+-B	02/07 10:55	02/07 10:55	BM
Temperature (field)	27.3		°C	1	1.00	1.00	EPA 170.1	02/07 10:55	02/07 10:55	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	90.4		mg/L	1	2.00	6.00	EPA 310.2	02/08 17:22	02/08 17:22	SA
Ammonia as N	0.0665		mg/L	1	0.0140	0.0420	EPA 350.1	02/08 10:31	02/08 10:31	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/08 17:42	02/08 17:42	DGK
Silica, Total (SiO2)	13.5		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	3.31		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1110		mg/L	1	10.0	30.0	TDS SM 2540C	02/10 15:30	02/13 15:30	AR
Total Organic Carbon	0.696		mg/L	1	0.168	0.504	TOC SM 5310C	02/08 14:47	02/08 17:25	SA
Total Suspended Solids	ND	U	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	8.68		mg/L	1			EPA 200.7 Calc	02/08 17:30	02/08 19:14	MAZ
Iron	0.0240		mg/L	1	0.00200	0.00600	EPA 200.7	02/08 17:30	02/08 19:22	MAZ
Strontium	22.2		mg/L	50	0.0105	0.0315	EPA 200.7	02/08 17:30	02/08 19:14	MAZ

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
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 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 3 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0216  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0216-03  
 Client Sample ID: Well UFA-1 125% Flow Rate  
 Matrix: Water

Collection Date: 02/07/17 13:00  
 Received Date: 02/07/17 17:15  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	1924		uS/cm	1	1	3	EPA 120.1	02/07 13:00	02/07 13:00	BM
pH (Field)	7.54		pH Units	1	0.100	0.300	SM4500-H+-B	02/07 13:00	02/07 13:00	BM
sulfide (field)	1.85		mg/L	1	0.0100	0.0300	SM 4500-S D	02/07 13:00	02/07 13:00	BM
Temperature (field)	28.1		°C	1	1.00	1.00	EPA 170.1	02/07 13:00	02/07 13:00	BM

Wet Chemistry

Sulfide	3.42		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	1.50	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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 630 Indian St.  
 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 4 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0216  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0216-04  
 Client Sample ID: Well UFA-1 125% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/07/17 13:00  
 Received Date: 02/07/17 17:15  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	1928		uS/cm	1	1	3	EPA 120.1	02/07 13:00	02/07 13:00	BM
pH (Field)	7.84		pH Units	1	0.100	0.300	SM4500-H+-B	02/07 13:00	02/07 13:00	BM
sulfide (field)	1.98		mg/L	1	0.0100	0.0300	SM 4500-S D	02/07 13:00	02/07 13:00	BM
Temperature (field)	28.3		°C	1	1.00	1.00	EPA 170.1	02/07 13:00	02/07 13:00	BM

Wet Chemistry

Sulfide	3.36		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	ND	U	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401



**Report To:**  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

**Page 5 of 5**  
**Report Printed:** 2/15/2017  
**Work Order #** 17B0216  
**Project:**  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

**Notes and Definitions**

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- J-3 The matrix spike recovery exceeded method acceptance limits indicating matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160  
 Unless indicated, soil results are reported on actual (wet) weight basis.  
 Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Suresh (Bobby) Supan - CSM

Authorized CSM Signature (954) 978-6400  
 Florida-Spectrum Environmental Services, Inc.  
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401

**SUBMISSION #**  
178026

Logged into \_\_\_\_\_  
LIMS by: \_\_\_\_\_



**CHAIN OF CUSTODY RECORD**

1460 W McNab Road Ft Lauderdale FL 33309  
940 Alt. 27 South Babson Park, FL 33827  
630 Indian Street Savannah, GA 31401  
528 Gooch Road Fort Meade FL 33841

Tel: (954) 978-6400  
Tel: (863) 638-3255  
Tel: (912) 238-5050  
Tel: (863) 285-8145

Fax: (954) 978-2233  
Fax: (863) 638-3637  
Fax: (912) 234-4815  
Fax: (863) 285-7030

**DUE DATE Requested**

**RUSH RESERVATION #**

*Rush Surcharges apply*

**Report to: Layne Christensen Company**  
Address: 5061 Luckett Road, Fort Myers, FL 33905

**Invoice to: Layne Christensen Company**  
Address: 5061 Luckett Road, Fort Myers, FL 33905

**Project Name**  
and/or Number : Brighton WTP - Well UFA-1

**Project**  
and/or Number : Brighton WTP - Well UFA-1

**Phone:** 239.275.1029/239.275.1025

**Site**  
Location: 1125 BIA HWY 282, Brighton, FL

**Sampler Signature:** \_\_\_\_\_  
Name: Craig Brugger  
Email: cbrugger@laynechristensen.com

ORDER # Lab Control Number Shaded Areas For Laboratory Use Only	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres. Combo Codes	Number of Containers Received & NELAC Letter Suffixes A-?	Analysis Required						Field Tests			
							Total Sulfide	TSS	Total Alkalinity	Total Hardness	Ammonia	Nitrate	TOC	Stontium	PH	TEMP -C
01	Well UFA-1 100% Flow Rate	02-07-17	10:55	GW	446104	7	X	X	X	X	X	X	X	7.6	27.4	2029
02	Well UFA-1 100% Flow Rate Duplicate	02-07-17	10:55	GW	446104	7	X	X	X	X	X	X	X	7.5	27.3	2037
03	Well UFA-1 125% Flow Rate	02-07-17	13:00	GW	446104	2	X	X	X	X	X	X	X	7.5	28.1	1924
04	Well UFA-1 125% Flow Rate Duplicate	02-07-17	13:00	GW	446104	2	X	X	X	X	X	X	X	7.5	28.3	1928

**Special Comments:**  
I waive NELAC protocol" (sign here) >

**Deliverables:**

QA/QC Report Needed? Yes No (additional charge)

Sample Custody & Field Comments	Temp as received	Custody Seals?	Billable Field Time	Disc. Charges
Temp as received 4 C	Y	N	6 hrs	
Bottle Type: A-liter amber, B-Bacteria bag/bottle, F-500 ml, L-liter bottle, S-soil jar, T-250 ml, V-40 ml vial, W-wide mouth, X-other	A-ascorbic acid, C-HCL, Cu-CuSO, H-HNO, M-MCAB, N-NaOH, NH, NH, CL	O-125ml, H-Amber, Plastic, Liter, G-Gallon	Preservatives: P-H <sub>2</sub> PO, S-H <sub>2</sub> SO, T-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O, U-Unpreserved, P-H <sub>2</sub> PO, Z-zinc acetate	

**SAMPLE CUSTODY AND TRANSFER SIGNATURES**

1 Relinquished by: \_\_\_\_\_ DATE / TIME 02/07/17 17:15

1 Received by: \_\_\_\_\_

2 Relinquished by: \_\_\_\_\_

2 Received by: \_\_\_\_\_

3 Relinquished by: \_\_\_\_\_

3 Received by: \_\_\_\_\_

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Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 1 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0272  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0272-01  
 Client Sample ID: Well UFA-1 100% Flow Rate  
 Matrix: Water

Collection Date: 02/08/17 10:25  
 Received Date: 02/08/17 17:00  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Field Parameter (s)

Specific Conductance (field)	1924		uS/cm	1	1	3	EPA 120.1	02/08 10:25	02/08 10:25	ROL
pH (Field)	6.45		pH Units	1	0.100	0.300	SM4500-H+-B	02/08 10:25	02/08 10:25	ROL
sulfide (field)	1.65		mg/L	1	0.0100	0.0300	SM 4500-S D	02/08 10:25	02/08 10:25	BM
Temperature (field)	27.4		°C	1	1.00	1.00	EPA 170.1	02/08 10:25	02/08 10:25	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	83.4		mg/L	1	2.00	6.00	EPA 310.2	02/10 14:52	02/10 14:52	SA
Ammonia as N	0.0976		mg/L	1	0.0140	0.0420	EPA 350.1	02/13 12:11	02/13 12:11	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/09 19:54	02/09 19:54	DGK
Silica, Total (SiO2)	13.1		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	3.23		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1140		mg/L	1	10.0	30.0	TDS SM 2540C	02/10 15:30	02/13 15:30	AR
Total Organic Carbon	0.747		mg/L	1	0.168	0.504	TOC SM 5310C	02/13 13:52	02/13 14:17	SA
Total Suspended Solids	ND	U	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	423		mg/L	1			EPA 200.7 Calc	02/10 08:00	02/10 12:59	MAZ
Iron	0.0190		mg/L	1	0.00200	0.00600	EPA 200.7	02/10 08:00	02/10 12:27	MAZ
Strontium	22.8		mg/L	50	0.0105	0.0315	EPA 200.7	02/10 08:00	02/10 12:59	MAZ

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 630 Indian St.  
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Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 2 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0272  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0272-02  
 Client Sample ID: Well UFA-1 100% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/08/17 10:25  
 Received Date: 02/08/17 17:00  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Field Parameter (s)

Specific Conductance (field)	1931		uS/cm	1	1	3	EPA 120.1	02/08 10:25	02/08 10:25	ROL
pH (Field)	7.14		pH Units	1	0.100	0.300	SM4500-H+-B	02/08 10:25	02/08 10:25	ROL
sulfide (field)	1.77		mg/L	1	0.0100	0.0300	SM 4500-S D	02/08 10:25	02/08 10:25	BM
Temperature (field)	27.9		°C	1	1.00	1.00	EPA 170.1	02/08 10:25	02/08 10:25	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	84.6		mg/L	1	2.00	6.00	EPA 310.2	02/10 14:52	02/10 14:52	SA
Ammonia as N	0.0837		mg/L	1	0.0140	0.0420	EPA 350.1	02/13 12:11	02/13 12:11	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/09 19:54	02/09 19:54	DGK
Silica, Total (SiO2)	13.2		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	3.18		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1140		mg/L	1	10.0	30.0	TDS SM 2540C	02/10 15:30	02/13 15:30	AR
Total Organic Carbon	0.747		mg/L	1	0.168	0.504	TOC SM 5310C	02/13 13:52	02/13 14:26	SA
Total Suspended Solids	ND	U	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	431		mg/L	1			EPA 200.7 Calc	02/10 08:00	02/10 13:02	MAZ
Iron	0.0190		mg/L	1	0.00200	0.00600	EPA 200.7	02/10 08:00	02/10 12:31	MAZ
Strontium	23.3		mg/L	50	0.0105	0.0315	EPA 200.7	02/10 08:00	02/10 13:02	MAZ

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Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 3 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0272  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0272-03  
 Client Sample ID: Well UFA-1 125% Flow Rate  
 Matrix: Water

Collection Date: 02/08/17 12:35  
 Received Date: 02/08/17 17:00  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
<b>Field Parameter (s)</b>										
Specific Conductance (field)	1917		uS/cm	1	1	3	EPA 120.1	02/08 12:35	02/08 12:35	ROL
pH (Field)	7.85		pH Units	1	0.100	0.300	SM4500-H+-B	02/08 12:35	02/08 12:35	ROL
sulfide (field)	1.90		mg/L	1	0.0100	0.0300	SM 4500-S D	02/08 12:35	02/08 12:35	BM
Temperature (field)	28.6		°C	1	1.00	1.00	EPA 170.1	02/08 12:35	02/08 12:35	BM

Wet Chemistry

Sulfide	3.22		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	3.50		mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

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Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
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Page 4 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0272  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0272-04  
 Client Sample ID: Well UFA-1 125% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/08/17 12:35  
 Received Date: 02/08/17 17:00  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Field Parameter (s)

Specific Conductance (field)	1920		uS/cm	1	1	3	EPA 120.1	02/08 12:35	02/08 12:35	ROL
pH (Field)	7.89		pH Units	1	0.100	0.300	SM4500-H+-B	02/08 12:35	02/08 12:35	ROL
sulfide (field)	1.90		mg/L	1	0.0100	0.0300	SM 4500-S D	02/08 12:35	02/08 12:35	BM
Temperature (field)	28.4		°C	1	1.00	1.00	EPA 170.1	02/08 12:35	02/08 12:35	BM

Wet Chemistry

Sulfide	3.12		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	3.10		mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

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**Report To:**  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

**Page 5 of 5**  
**Report Printed:** 2/15/2017  
**Work Order #** 17B0272  
**Project:**  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

**Notes and Definitions**

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- J-3 The matrix spike recovery exceeded method acceptance limits indicating matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160  
 Unless indicated, soil results are reported on actual (wet) weight basis.  
 Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Suresh (Bobby) Supan - CSM

Authorized CSM Signature (954) 978-6400  
 Florida-Spectrum Environmental Services, Inc.  
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

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Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401

SUBMISSION #  
*FB0272*

Logged into  
LIMS by: *[Signature]*



**CHAIN OF CUSTODY RECORD**

1460 W McNab Road Ft Lauderdale FL 33309  
 940 Alt. 27 South Babson Park, FL 33827  
 630 Indian Street Savannah, GA 31401  
 528 Gooch Road Fort Meade FL 33841  
 Tel: (954) 978-6400  
 Tel: (863) 638-3255  
 Tel: (912) 238-5050  
 Tel: (863) 285-8145  
 Fax: (954) 978-2233  
 Fax: (863) 638-3637  
 Fax: (912) 234-4815  
 Fax: (863) 285-7030

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Original-Return w/report Yellow- Lab File Copy Pink- Sampler Copy

Report to: Layne Christensen Company

Report to

Address: 5061 Luckett Road, Fort Myers, FL 33905

Invoice to: Layne Christensen Company

Invoice to

Address: 5061 Luckett Road, Fort Myers, FL 33905

Project Name

and/or Number : Brighton WTP - Well UFA-1

Project

Phone: 239.275.1029/239.275.1025

Mgr: Craig Brugger

Fax:

Location: 1125 BIA HWY 282 , Brighton , FL

Email: cbrugger@laynechristensen.com

Sampler Name: *Brian Morris*

Sampler Signature: *[Signature]*

ORDER # Lab Control Number <i>Shaded Areas For Laboratory Use Only</i>	Sample ID	Date Sampled	Time Sampled	Matrix DW SW GW SED S EFF HW BIO SA OIL X	Bottle & Pres. Combo Codes	Number of Containers Received & NELAC Letter Suffixes # A-?	Analysis Required							Field Tests						
							Total Sulfide	TSS	Total Alkalinity	Total Iron	Total Hardness	Ammonia	Silica	Nitrate	TOC	Strontium	Total Sulfide	P H	T E M P -C	C O N D
01	Well UFA-1 100% Flow Rate	02-08-17	10:25	GW		7	X	X	X	X	X	X	X	X	X	X	1.65	6.45	27.4	1924
02	Well UFA-1 100% Flow Rate Duplicate	02-08-17	10:25	GW		7	X	X	X	X	X	X	X	X	X	X	1.77	7.14	27.9	1931
03	Well UFA-1 125% Flow Rate	02-08-17	12:35	GW		2	X										1.90	7.95	28.6	1917
04	Well UFA-1 125% Flow Rate Duplicate	02-08-17	12:35	GW		2	X										1.90	7.89	28.4	1920

Special Comments: I waive NELAC protocol" (sign here) >

Deliverables: QA/QC Report Needed? Yes No (additional charge)

Temp as received 4 C

Custody Seals? Y N

Billable Field Time 6 hrs

Misc. Charges

Bottle Type: A-liter amber, B-Bacteria bag/bottle H-Amber Plastic Liter, F-500 ml, L-liter bottle, S-soil jar, T-250 ml, V-40 ml vial, W-wide mouth, X-other

Preservatives: A-ascorbic acid, C-HCL, Cu-CuSO<sub>4</sub>, H-HNO<sub>3</sub>, M-MCAB, N-NaOH, NH<sub>4</sub>-NH<sub>4</sub>CL, P-H<sub>3</sub>PO<sub>4</sub>, S-H<sub>2</sub>SO<sub>4</sub>, T-Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>-H<sub>2</sub>O, U-Unpreserved, P-HgPO<sub>4</sub>, Z-zinc acetate

Temp as received 4 C

Custody Seals? Y N

Billable Field Time 6 hrs

Misc. Charges

Relinquished by: *[Signature]* DATE/TIME: 02/08/17 17:00

Received by: *[Signature]* DATE/TIME: 2/5/17 17:00

Relinquished by:

Received by:

Relinquished by:

Received by:

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COC Page 1 of 1



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 1 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0311  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0311-01  
 Client Sample ID: Well UFA-1 100% Flow Rate  
 Matrix: Water

Collection Date: 02/09/17 10:30  
 Received Date: 02/09/17 17:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	1935		uS/cm	1	1	3	EPA 120.1	02/09 10:30	02/09 10:30	BM
pH (Field)	7.74		pH Units	1	0.100	0.300	SM4500-H+-B	02/09 10:30	02/09 10:30	BM
sulfide (field)	1.70		mg/L	1	0.0100	0.0300	SM 4500-S D	02/09 10:30	02/09 10:30	BM
Temperature (field)	26.7		°C	1	1.00	1.00	EPA 170.1	02/09 10:30	02/09 10:30	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	73.6		mg/L	1	2.00	6.00	EPA 310.2	02/13 10:08	02/13 10:08	YBR
Ammonia as N	0.103	J-3	mg/L	1	0.0140	0.0420	EPA 350.1	02/13 12:11	02/13 12:11	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/09 19:54	02/09 19:54	DGK
Silica, Total (SiO2)	11.8		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	3.09		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1200		mg/L	1	10.0	30.0	TDS SM 2540C	02/13 10:00	02/14 14:00	AR
Total Organic Carbon	0.784		mg/L	1	0.168	0.504	TOC SM 5310C	02/13 13:52	02/13 14:35	SA
Total Suspended Solids	1.30	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	410		mg/L	1			EPA 200.7 Calc	02/10 14:30	02/10 15:19	MAZ
Iron	0.0260		mg/L	1	0.00200	0.00600	EPA 200.7	02/10 14:30	02/10 15:27	MAZ
Strontium	21.2		mg/L	50	0.0105	0.0315	EPA 200.7	02/10 14:30	02/10 15:19	MAZ

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Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 2 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0311  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0311-02  
 Client Sample ID: Well UFA-1 100% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/09/17 10:30  
 Received Date: 02/09/17 17:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
<b>Field Parameter (s)</b>										
Specific Conductance (field)	1937		uS/cm	1	1	3	EPA 120.1	02/09 10:30	02/09 10:30	BM
pH (Field)	7.76		pH Units	1	0.100	0.300	SM4500-H+-B	02/09 10:30	02/09 10:30	BM
sulfide (field)	1.93		mg/L	1	0.0100	0.0300	SM 4500-S D	02/09 10:30	02/09 10:30	BM
Temperature (field)	27.3		°C	1	1.00	1.00	EPA 170.1	02/09 10:30	02/09 10:30	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	74.0		mg/L	1	2.00	6.00	EPA 310.2	02/13 10:08	02/13 10:08	YBR
Ammonia as N	0.0852	J-3	mg/L	1	0.0140	0.0420	EPA 350.1	02/13 12:11	02/13 12:11	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/09 19:54	02/09 19:54	DGK
Silica, Total (SiO2)	11.4		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	3.04		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Dissolved Solids	1240		mg/L	1	10.0	30.0	TDS SM 2540C	02/13 10:00	02/14 14:00	AR
Total Organic Carbon	0.756		mg/L	1	0.168	0.504	TOC SM 5310C	02/13 13:52	02/13 14:44	SA
Total Suspended Solids	1.10	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	423		mg/L	1			EPA 200.7 Calc	02/10 14:30	02/10 15:23	MAZ
Iron	0.0240		mg/L	1	0.00200	0.00600	EPA 200.7	02/10 14:30	02/10 15:31	MAZ
Strontium	22.2		mg/L	50	0.0105	0.0315	EPA 200.7	02/10 14:30	02/10 15:23	MAZ

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Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
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Page 3 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0311  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0311-03  
 Client Sample ID: Well UFA-1 125% Flow Rate  
 Matrix: Water

Collection Date: 02/09/17 12:35  
 Received Date: 02/09/17 17:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	1934		uS/cm	1	1	3	EPA 120.1	02/09 12:35	02/09 12:35	BM
pH (Field)	7.86		pH Units	1	0.100	0.300	SM4500-H+-B	02/09 12:35	02/09 12:35	BM
sulfide (field)	1.70		mg/L	1	0.0100	0.0300	SM 4500-S D	02/09 12:35	02/09 12:35	BM
Temperature (field)	27.2		°C	1	1.00	1.00	EPA 170.1	02/09 12:35	02/09 12:35	BM

Wet Chemistry

Sulfide	3.48		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	1.50	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 4 of 5  
 Report Printed: 2/15/2017  
 Work Order # 17B0311  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0311-04  
 Client Sample ID: Well UFA-1 125% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/09/17 12:35  
 Received Date: 02/09/17 17:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
<b>Field Parameter (s)</b>										
Specific Conductance (field)	1932		uS/cm	1	1	3	EPA 120.1	02/09 12:35	02/09 12:35	BM
pH (Field)	7.81		pH Units	1	0.100	0.300	SM4500-H+-B	02/09 12:35	02/09 12:35	BM
sulfide (field)	1.62		mg/L	1	0.0100	0.0300	SM 4500-S D	02/09 12:35	02/09 12:35	BM
Temperature (field)	27.2		°C	1	1.00	1.00	EPA 170.1	02/09 12:35	02/09 12:35	BM

Wet Chemistry

Sulfide	3.20		mg/L	10	0.100	0.300	SM 4500-S D	02/10 16:30	02/10 16:30	LLC
Total Suspended Solids	1.60	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/10 13:30	02/13 11:00	AR

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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**Report To:**  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

**Page 5 of 5**  
**Report Printed:** 2/15/2017  
**Work Order #** 17B0311  
**Project:**  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

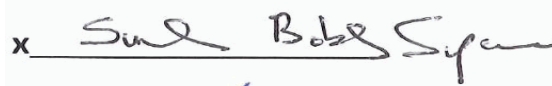
**Notes and Definitions**

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- J-3 The matrix spike recovery exceeded method acceptance limits indicating matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160  
 Unless indicated, soil results are reported on actual (wet) weight basis.  
 Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Suresh (Bobby) Supan - CSM



Authorized CSM Signature (954) 978-6400  
 Florida-Spectrum Environmental Services, Inc.  
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401

SUBMISSION #  
**172031**



Logged into  
LIMS by: *[Signature]*

**CHAIN OF CUSTODY RECORD**

1460 W McNab Road Ft Lauderdale FL 33309  
Tel: (954) 978-6400  
940 Alt. 27 South Babson Park, FL 33827  
Tel: (863) 638-3255  
630 Indian Street Savannah, GA 31401  
Tel: (912) 238-5050  
528 Gooch Road Fort Meade FL 33841  
Tel: (863) 285-8145

Fax: (954) 978-2233  
Fax: (863) 638-3637  
Fax: (912) 234-4815  
Fax: (863) 285-7030

DUE DATE Requested  
**RUSH RESERVATION #**  
Rush Surcharges apply

Report to: **Layne Christensen Company**

Original-Return w/report

Yellow-Lab File Copy

Pink-Sampler Copy

Invoice to: **Layne Christensen Company**

Report to

Address: 5061 Luckett Road, Fort Myers, FL 33905

Invoice to

Address: 5061 Luckett Road, Fort Myers, FL 33905

Project Name

Site

Location: 1125 BIA HWY 282, Brighton, FL

and/or Number : Brighton WTP - Well UFA-1

Phone: 239.275.1029/239.275.1025

Fax: Email: cbrugger@laynechristensen.com

Mgr: Craig Brugger

Sampler Name: *Brian Moore*

Sampler Signature:

Number of Containers Received & NELAC Letter Suffixes # A-?

Analysis Required

Field Tests

Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Combo Codes	Total Sulfide	TSS	Total Alkalinity Iron	Total Hardness	Ammonia	Nitrate	Strontium TDS	Total Sulfide	Field Tests		
															P	H	C
01	Well UFA-1 100% Flow Rate	02-09-17	10:30	GW	Y B A	Y B A	X	X	X	X	X	X	X	170	7.74	26.7	193
02	Well UFA-1 100% Flow Rate Duplicate	02-09-17	10:30	GW	Y B A	Y B A	X	X	X	X	X	X	X	193	7.76	27.3	193
03	Well UFA-1 125% Flow Rate	02-09-17	12:35	GW	Y B A	Y B A	X	X	X	X	X	X	X	170	7.80	27.2	193
04	Well UFA-1 125% Flow Rate Duplicate	02-09-17	12:35	GW	Y B A	Y B A	X	X	X	X	X	X	X	162	7.81	27.2	193

Special Comments:  
I waive NELAC protocol" (sign here) >

Total

18

QA/QC Report Needed?

Yes No (additional charge)

Deliverables:

Relinquished by: *[Signature]*  
Received by: *[Signature]*

Temp as received

4 C

Custody Seals?

Y N

Billable Field Time

6 hrs

Misc. Charges

Sample Custody & Field Comments

Bottle Type  
A-liter amber  
B-Bacteria bag/bottle  
F-500 ml  
L-liter bottle  
S-soil jar  
T-250 ml  
V-40 ml vial  
W-wide mouth  
X-other

Preservatives

A-ascorbic acid  
C-HCL  
Cu-CuSO4  
H-HNO3  
M-MCAB  
N-NaOH  
NH4-NH4CL

Temp as received

O-125ml  
H-Amber  
Plastic  
Liter  
G-Gallon

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COC Page 1 of 1



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 1 of 5  
 Report Printed: 2/16/2017  
 Work Order # 17B0342  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0342-01  
 Client Sample ID: Well UFA-1 100% Flow Rate  
 Matrix: Water

Collection Date: 02/10/17 10:30  
 Received Date: 02/10/17 16:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	1925		uS/cm	1	1	3	EPA 120.1	02/10 10:30	02/10 10:30	BM
pH (Field)	7.87		pH Units	1	0.100	0.300	SM4500-H+-B	02/10 10:30	02/10 10:30	BM
sulfide (field)	1.60		mg/L	1	0.0100	0.0300	SM 4500-S D	02/10 10:30	02/10 10:30	BM
Temperature (field)	26.2		°C	1	1.00	1.00	EPA 170.1	02/10 10:30	02/10 10:30	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	75.4		mg/L	1	2.00	6.00	EPA 310.2	02/13 10:08	02/13 10:08	YBR
Ammonia as N	0.0797		mg/L	1	0.0140	0.0420	EPA 350.1	02/13 12:11	02/13 12:11	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/10 18:47	02/10 18:47	DGK
Silica, Total (SiO2)	12.7		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	2.59		mg/L	10	0.100	0.300	SM 4500-S D	02/13 13:34	02/13 13:34	LLC
Total Dissolved Solids	1210		mg/L	1	10.0	30.0	TDS SM 2540C	02/13 10:00	02/14 14:00	AR
Total Organic Carbon	0.724		mg/L	1	0.168	0.504	TOC SM 5310C	02/13 13:52	02/13 15:00	SA
Total Suspended Solids	1.00	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/15 14:30	02/16 10:00	SA

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	441		mg/L	1			EPA 200.7 Calc	02/13 09:45	02/13 14:43	MAZ
Iron	0.0178		mg/L	1	0.00200	0.00600	EPA 200.7	02/13 09:45	02/13 14:53	MAZ
Strontium	24.6		mg/L	50	0.0105	0.0315	EPA 200.7	02/13 09:45	02/13 14:43	MAZ

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 2 of 5  
 Report Printed: 2/16/2017  
 Work Order # 17B0342  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0342-02  
 Client Sample ID: Well UFA-1 100% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/10/17 10:30  
 Received Date: 02/10/17 16:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
<b>Field Parameter (s)</b>										
Specific Conductance (field)	1924		uS/cm	1	1	3	EPA 120.1	02/10 10:30	02/10 10:30	BM
pH (Field)	7.81		pH Units	1	0.100	0.300	SM4500-H+-B	02/10 10:30	02/10 10:30	BM
sulfide (field)	1.65		mg/L	1	0.0100	0.0300	SM 4500-S D	02/10 10:30	02/10 10:30	BM
Temperature (field)	26.5		°C	1	1.00	1.00	EPA 170.1	02/10 10:30	02/10 10:30	BM

Wet Chemistry

Total Alkalinity (pH 4.5)	75.8		mg/L	1	2.00	6.00	EPA 310.2	02/13 10:08	02/13 10:08	YBR
Ammonia as N	0.0767		mg/L	1	0.0140	0.0420	EPA 350.1	02/13 12:11	02/13 12:11	YBR
Nitrate as N	ND	U	mg/L	1	0.0870	0.260	EPA 300.0	02/10 18:47	02/10 18:47	DGK
Silica, Total (SiO2)	12.7		mg/L	1	0.0880	0.265	SM4500-SiO2 C	02/14 12:30	02/14 12:30	SA
Sulfide	3.12		mg/L	10	0.100	0.300	SM 4500-S D	02/13 13:34	02/13 13:34	LLC
Total Dissolved Solids	1200		mg/L	1	10.0	30.0	TDS SM 2540C	02/13 10:00	02/14 14:00	AR
Total Organic Carbon	0.727		mg/L	1	0.168	0.504	TOC SM 5310C	02/13 13:52	02/13 15:08	SA
Total Suspended Solids	ND	U	mg/L	1	1.00	3.00	TSS SM 2540D	02/15 14:30	02/16 10:00	SA

Total Recoverable Metals by EPA 200 Series Methods

Total Hardness	436		mg/L	1			EPA 200.7 Calc	02/13 09:45	02/13 14:49	MAZ
Iron	0.0218		mg/L	1	0.00200	0.00600	EPA 200.7	02/13 09:45	02/13 14:57	MAZ
Strontium	24.8		mg/L	50	0.0105	0.0315	EPA 200.7	02/13 09:45	02/13 14:49	MAZ

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory  
 528 Gooch Rd.  
 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401



Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 3 of 5  
 Report Printed: 2/16/2017  
 Work Order # 17B0342  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0342-03  
 Client Sample ID: Well UFA-1 125% Flow Rate  
 Matrix: Water

Collection Date: 02/10/17 12:35  
 Received Date: 02/10/17 16:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
-----------	--------	----	-------	-----	-----	-----	--------	-----------	-------------	---------

Field Parameter (s)

Specific Conductance (field)	1935		uS/cm	1	1	3	EPA 120.1	02/10 12:35	02/10 12:35	BM
pH (Field)	7.67		pH Units	1	0.100	0.300	SM4500-H+-B	02/10 12:35	02/10 12:35	BM
sulfide (field)	1.65		mg/L	1	0.0100	0.0300	SM 4500-S D	02/10 12:35	02/10 12:35	BM
Temperature (field)	27.0		°C	1	1.00	1.00	EPA 170.1	02/10 12:35	02/10 12:35	BM

Wet Chemistry

Sulfide	3.16		mg/L	10	0.100	0.300	SM 4500-S D	02/13 13:34	02/13 13:34	LLC
Total Suspended Solids	1.30	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/15 14:30	02/16 10:00	SA

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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Report To:  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

Page 4 of 5  
 Report Printed: 2/16/2017  
 Work Order # 17B0342  
 Project:  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

Lab ID: 17B0342-04  
 Client Sample ID: Well UFA-1 125% Flow Rate Duplica  
 Matrix: Water

Collection Date: 02/10/17 12:35  
 Received Date: 02/10/17 16:10  
 Collected By: Bevin Morris

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
<b>Field Parameter (s)</b>										
Specific Conductance (field)	1935		uS/cm	1	1	3	EPA 120.1	02/10 12:35	02/10 12:35	BM
pH (Field)	7.65		pH Units	1	0.100	0.300	SM4500-H+-B	02/10 12:35	02/10 12:35	BM
sulfide (field)	1.95		mg/L	1	0.0100	0.0300	SM 4500-S D	02/10 12:35	02/10 12:35	BM
Temperature (field)	27.1		°C	1	1.00	1.00	EPA 170.1	02/10 12:35	02/10 12:35	BM

Wet Chemistry

Sulfide	3.26		mg/L	10	0.100	0.300	SM 4500-S D	02/13 13:34	02/13 13:34	LLC
Total Suspended Solids	1.80	I	mg/L	1	1.00	3.00	TSS SM 2540D	02/15 14:30	02/16 10:00	SA

Florida-Spectrum Environmental Services, Inc.  
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 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

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 Savannah, GA 31401





**Report To:**  
 Craig Brugger  
 Layne Christensen Co-FL  
 5061 Lockett Road  
 Fort Myers FL, 33905

**Page 5 of 5**  
**Report Printed:** 2/16/2017  
**Work Order #** 17B0342  
**Project:**  
 Brighton WTP - Well UFA-1

1125 BIA Hwy. 282, Brighton, FL

**Notes and Definitions**

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- J-3 The matrix spike recovery exceeded method acceptance limits indicating matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160  
 Unless indicated, soil results are reported on actual (wet) weight basis.  
 Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Suresh (Bobby) Supan - CSM

Authorized CSM Signature (954) 978-6400  
 Florida-Spectrum Environmental Services, Inc.  
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Florida-Spectrum Environmental Services, Inc.  
 1460 W. McNab Road, Fort Lauderdale, FL 33309

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 Fort Mead, FL 33841

Big Lake Laboratory  
 610 Parrot Ave. N.  
 Okeechobee, FL 34972

Spectrum Laboratories  
 630 Indian St.  
 Savannah, GA 31401

SUBMISSION #



CHAIN OF CUSTODY RECORD

1460 W McNab Road Ft Lauderdale FL 33309
940 Alt. 27 South Babson Park, FL 33827
630 Indian Street Savannah, GA 31401
528 Gooch Road Fort Meade FL 33841

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Original-Return w/report Yellow-Lab File Copy Pink-Sampler Copy

Report to: Layne Christensen Company

Invoice to: Layne Christensen Company

Project Name and/or Number : Brighton WTP - Well UFA-1

Mgr: Craig Brugger

Sampler Name: (printed) Benj Moans

Phone: 239.275.1029/239.275.1025

Email: cbrugger@laynechristensen.com

Table with columns: ORDER #, Lab Control Number, Sample ID, Date Sampled, Time Sampled, Matrix, Bottle & Pres., Combo Codes, Number of Containers Received, Analysis Required (TSS, Alkalinity, Iron, Hardness, Ammonia, Nitrate, Strontium, TDS, Total Sulfide), Field Tests (PH, TEMPERATURE, COND), DATE / TIME.

Special Comments: I waive NELAC protocol" (sign here) >

Deliverables: QA/QC Report Needed? Yes No (additional charge)

Sample Custody & Field Comments: Bottle Type, Temp as received, Custody Seals?, Billable Field Time, Misc. Charges

SAMPLE CUSTODY AND TRANSFER SIGNATURES: Relinquished by: Received by: Relinquished by: Received by: www.flenviro.com