OKALOOSA WATERWORKS, INC.

July 13, 2020

Office of Commission Clerk
Florida Public Service Commission
Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399

Re: Docket No. 20200155-WU - Application for certificate to operate water utility in Okaloosa County by Okaloosa Waterworks, Inc. – Response to Staff Deficiency Letter

Dear Commission Clerk,

Okaloosa Waterworks, Inc. (Okaloosa) hereby provides its response to Staff's Deficiency Letter dated Jun 30, 2020.

1. **Proof of Noticing** – See attached Late Filed Exhibit J – Affidavit of Noticing and Affidavit of Publication
2. **Financial Ability** – This was filed on July 6, 2020. See Document Nos. **0320-2020** and **0321-2020.**
3. **Reports** – See attached Secondary standard test results – also 2019 Consumer Confidence Report
4. **System Maps** – See attached map showing the water treatment plants and distribution system. This was obtained from both Polyengineering Inc., and the FDEP. Also attached is the territory map previously provided which was compiled by USWSC. There is not a map that includes both and it would be cost prohibited to attempt to compile one. All as-builts were submitted to and approved by the FDEP. The FDEP recently sent the following link to their Oculus site that includes all previous documents. If Okaloosa were to be required to obtain these from Polyengineering, this would have to be paid for by the utility and pass onto the customers. Okaloosa believes it has met the requirements of the rule.

   See:

   https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=hitlist&[freeText=]&[folderName=]&[profile=Permitting_Authorization]&[creator=]&[entityType=any]&[createdDateTo=]&[catalog=32]&[searchBy=Profile]&[sortBy=Document+Date]&[createdDate=]&{County=_EQ_OKALOOSA}&{District=_EQ_NWD}&{Facility-Site+ID=_EQ_1464068}

COM ___
AFD ___
APA ___
ECO ___
ENG (2 maps)
GCL ___
IDM ___
CLK ___

4939 Cross Bayou Boulevard ~ New Port Richey, FL 34652
Tel: (866) 753-8292 Fax: (727) 848-7701

Respectfully Submitted,

Troy Rendell
Vice President
Investor Owned Utilities
// for Okaloosa Waterworks, Inc.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application for certificate to operate water utility in Okaloosa County and application for pass through increase of regulatory assessment fees, by Okaloosa Waterworks, Inc.	DOCKET NO. 20200155-WU FILED: July 13, 2020

AFFIDAVIT

Late Filed Exhibit J to Application

STATE OF FLORIDA:
COUNTY OF PASCO:

BEFORE ME, the undersigned authority, personally appeared Troy Rendell, who after being duly sworn, deposes and says:

1. That I, Troy Rendell, am the Authorized Representative of Okaloosa Waterworks, Inc..

2. That I hereby affirm that on July 7, 2020 mailed the Certificate Notice to the customers of Okaloosa Waterworks, Inc. in Okaloosa County, FL. In accordance with Rule 25-30.030 (6) in Okaloosa Waterworks, Inc.'s Application for Approval for certificate to operate water utility in Okaloosa County, Florida.

3. That I hereby affirm that on July 7, 2020 did send by regular U.S. Mail, a copy of the notice attached hereto to each of the utilities, governmental bodies, agencies, and municipalities, in according with the list provided by the Florida Public Service Commission.

4. Further, Affiant sayeth not.

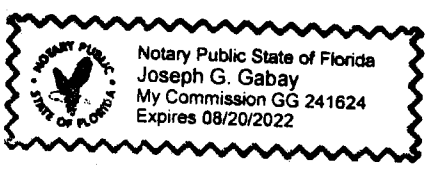
T. Rendell

TROY RENDELL

STATE OF FLORIDA:
COUNTY OF PASCO:

Subscribed and sworn to before me this 13th Day of July 2020, by Troy Rendell, who is personally known to me.

NOTARY PUBLIC
My Commission Expires:



NOTICE OF APPLICATION FOR ORIGINAL WATER CERTIFICATE OF AUTHORIZATION FOR EXISTING UTILITY CURRENTLY CHARGING FOR WATER SERVICE.

DOCKET NO. 20200155-WU

Application for certificate to operate water utility in Okaloosa County and application for pass through increase of regulatory assessment fees, by Okaloosa Waterworks, Inc.

DATE OF NOTICE – July 6, 2020

Notice is hereby given that Okaloosa Waterworks, Inc. has filed an Application for original water certificate of authorization for existing utility currently charging for service in Okaloosa County Florida pursuant to Section 367.031; 367.045; and 367.081, Florida Statutes, and Rule 24-30.034, Florida Administrative Code.

WATER SERVICE TERRITORY LEGAL DESCRIPTION

All of Section 26, Township 6 North, Range 25 West, Section 25, Township 6 North, Range 25 West, Section 30, Township 6 North, Range 24 West, Section 29, Township 6 North, Range 24 West, Section 28, Township 6 North, Range 24 West, Section 27, Township 6 North, Range 24 West, Section 26, Township 6 North, Range 24 West, Section 25, Township 6 North, Range 24 West, the Northwest ¼ of the Northwest 1/4, the Southwest ¼ of the Northwest ¼, the Northwest ¼ of the Southwest ¼ and the Southwest ¼ of the Southwest ¼ of Section 30, Township 6 North, Range 23 West.

All of Section 35, Township 6 North, Range 25 West, Section 36, Township 6 North, Range 25 West, Section 31, Township 6 North, Range 24 West, Section 32, Township 6 North, Range 24 West, Section 33, Township 6 North, Range 24 West, Section 34, Township 6 North, Range 24 West, Section 35, Township 6 North, Range 24 West, Section 36, Township 6 North, Range 24 West, the Northwest ¼ of the Northwest 1/4, the Southwest ¼ of the Northwest ¼, the Northwest ¼ of the Southwest ¼ and the Southwest ¼ of the Southwest ¼ of Section 31, Township 6 North, Range 23 West.

All of Section 02, Township 5 North, Range 25 West, Section 01, Township 5 North, Range 25 West, Section 06, Township 5 North, Range 24 West, Section 05, Township 5 North, Range 24 West, Section 04, Township 5 North, Range 24 West, Section 03, Township 5 North, Range 24 West, Section 02, Township 5 North, Range 24 West, Section 01, Township 5 North, Range 24 West, the Northwest ¼ of the Northwest 1/4, the Southwest ¼ of the Northwest ¼, the Northwest ¼ of the Southwest ¼ and the Southwest ¼ of the Southwest ¼ of Section 06, Township 5 North, Range 23 West.

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Common Street Names Affected by Transfer: Hwy 189N; Hwy C-180; Red Barrow Rd; Thames Rd; Sunny Barrow Rd; Mormon Temple Rd; Tommy Steele Rd; Peacock Rd; State Line Rd; Grady Baggett Rd; Jordon Rd; Nana Rd; Horse Creek Rd; Mountain City Rd., all in Blackman, Florida.

For more information concerning this notice, please contact the Utility at the address below.

Okaloosa Waterworks, Inc.
c/o 4939 Cross Bayou Blvd.
New Port Richey, FL 34652
Office (727) 848-8292
Fax: (727) 848-7701
E-mail: trendell@uswatercorp.net

Any objection to the said application must be made in writing and filed with the Office of Commission Clerk, Florida Public Service Commission, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, no later than thirty (30) days after the last date that the notice was mailed or published, whichever is later.

CRESTVIEW
News Bulletin
CRESTVIEW NEWS BULLETIN EXTRA
Published Bi-Weekly
Crestview, Okaloosa County, Florida

STATE OF FLORIDA
COUNTY OF OKALOOSA

Before the undersigned authority personally appeared Ashley Davis, who on oath says that she is Receptionist of the Crestview News Bulletin, a bi-weekly newspaper published at Crestview in Okaloosa County, Florida; that the attached copy of advertisement, being a

Legal # 02020228

NOTICE OF APPLICATION FOR ORIGINAL WATER CERTIFICATE OF AUTHORIZATION FOR EXISTING UTILIITY

in the matter of

US WATER SERVICES CORP.

in the Okaloosa County Court, was published in said newspaper in the issues of

07/11/2020

Affiant further says that the said Crestview News Bulletin is a newspaper published at Crestview in said Okaloosa County, Florida, and that the said newspaper has heretofore been continuously published in said Okaloosa County, Florida, each week and has been entered as periodicals matter at the post office in Crestview, in said Okaloosa County, Florida, for a period of 1 year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

(Signature of Applicant)

Sworn to and subscribed before me this 1st day of July, 2020 by Ashley Davis , X who is personally known to me or who has produced identification.

(Signature of Notary Public-State of Florida)

CAROLYN V. BARNES
MY COMMISSION # GG 259443
EXPIRES: November 12, 2022
Bonded Thru Notary Public Underwriters

Notary Public

2020228
NOTICE OF APPLICATION FOR ORIGINAL WATER CERTIFICATE OF AUTHORIZATION FOR EXISTING UTILITY CURRENTLY CHARGING FOR WATER SERVICE.

DOCKET NO. 20200155-WU

Application for certificate to operate water utility in Okaloosa County and application for pass through increase of regulatory assessment fees, by Okaloosa Waterworks, Inc.

DATE OF NOTICE - June XX, 2020

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For more information concerning this notice please contact the Utility at the address below.

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c/o 4939 Cross Bayou Blvd.
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Office (727) 848-8292
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E-mail trendell@uswatercorp.net

Any objection to the said application must be made in writing and filed with the Office of Commission Clerk Florida Public Service Commission, 254 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, no later than thirty (30) days after the last date that the notice was mailed or published whichever is later.
7/11/2020
2020228

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

PUBLIC WATER SYSTEM INFORMATION (to be completed by sampler - please type or print legibly)

System Name: Blackman Community PWS I.D. #: 1464068

System Type (check one): [X] Community [ ] Non-transient Non-community [ ] Transient Non-community

Address: 7626 Hwy 189 N

City: Baker, FL ZIP Code: 32531

Phone # (850)537-2527 Fax #: E-Mail Address: bcwsinc@gmail.com

SAMPLE INFORMATION (to be completed by sampler)

Sample Number: 35394864001 Sample Date: 5/29/2018 Sample Time: 1:20 AM (PM) (Circle One)

Sample Location (be specific): Well 1 EP Location Code:

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): _____ mg/L Field pH:8.0

Sample Type (Check Only One)

- [ ] Distribution
- [X] Entry Point (to Distribution)
- [ ] Plant Tap (not for compliance with 62-550)
- [ ] Raw (at well or intake)
- [ ] Max Residence Time
- [ ] Ave Residence Time
- [ ] Near First Customer

Reason(s) for Sample (Check all that apply)

- [X] Routine Compliance with 62-550
- [ ] Confirmation of MCL Exceedance*
- [ ] Confirmation of Multiple Sites**
- [ ] Other:
- [ ] Replacement (of Invalidated Sample)
- [ ] Special (not for compliance with 62-550)
- [ ] Clearance (permitting)

Sampling Procedure Used or Other Comments:

*See 62-550.500(6) for requirements and restrictions. And 62-550.512(3) for nitrate or nitrite exceedances.

**See 62-550.550(4) for requirements and attach a results page for each site.

SAMPLER CERTIFICATION

I, _____ (Print Name), _____ (Print Title), do HEREBY CERTIFY that the above public water system and sample collection information is complete and correct.

Signature: _____ Date: _____

Certified Operator #: _____ Phone #: _____ Sampler's Fax #: _____

Sampler's E-mail: _____

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab - please type or print legibly)

Lab Name: Pace Analytical Services, Inc. Florida DOH Certification #: E83079 Certification Expiration Date: 6/30/2018

ATTACH CURRENT DOH ANALYTE SHEET*

Address: 8 East Tower Circle, Ormond Beach, FL 32174 Phone # (386) 672-5668

Were any analyses subcontracted? [X] Yes [ ] No If yes, please provide DOH certification numbers(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab) Date Sample(s) Received: 5/30/2018

PWS ID (From Page1): 1464068 Sample Number (From Page1): 35394864001 Lab Assigned Report # or Job ID: 35394864001

Group(s) Analyzed & Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

Inorganics	Synthetic Organics	Volatile Organics	Disinfection Byproducts	Radionuclides	Secondaries
[X] All Except Asbestos	[ ] All 30	[X] All 21	[X] Trihalomethanes	[X] Single Sample	[X] All 14
[ ] Partial	[ ] All Except Dioxin	[ ] Partial	[ ] Haloacetic Acids	[ ] Qtrly Composite**	[ ] Partial
[ ] Nitrate	[ ] Partial		[ ] Chlorite		
[ ] Nitrite	[ ] Dioxin Only		[ ] Bromate		
[ ] Asbestos					

LAB CERTIFICATION

I, Sakina Mckenzie (Print Name), Project Manager (Print Title), do HEREBY CERTIFY

that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature: Sa on. Mc Date: 06/18/2018

* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failture to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION & NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE OR NITRITE MCL EXCEEDANCES

NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

COMPLIANCE DETERMINATION (to be completed by DEP or DOH -- attach notes as necessary)

Sample Collection & Analysis Satisfactory: [ ] Yes [ ] No _____ Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

INORGANIC CONTAMINANTS
62-550.310(1)

Report Number / Job ID: 35394864001

PWS ID (From Page 1): 1464068

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification #
1040	Nitrate as N	10	mg/L	0.025	U	EPA 353.2	0.025	05/30/2018	18:01	E83079
1041	Nitrite as N	1	mg/L	0.025	U	EPA 353.2	0.025	05/30/2018	18:01	E83079
1005	Arsenic	0.010	mg/L	0.0023		EPA 200.8	0.00050	06/05/2018	10:25	E83079
1010	Barium	2	mg/L	0.0060	I	EPA 200.7	0.0050	06/05/2018	23:13	E83079
1015	Cadmium	0.005	mg/L	0.00050	U	EPA 200.7	0.00050	06/05/2018	23:13	E83079
1020	Chromium	0.1	mg/L	0.0025	U	EPA 200.7	0.0025	06/05/2018	23:13	E83079
1024	Cyanide	0.2	mg/L	0.0050	U	EPA 335.4	0.0050	06/08/2018	10:23	E83079
1025	Fluoride	4.0	mg/L	0.14		EPA 300.0	0.034	06/04/2018	20:20	E83079
1030	Lead	0.015	mg/L	0.00050	U	EPA 200.8	0.00050	06/05/2018	10:25	E83079
1035	Mercury	0.002	mg/L	0.00010	U	EPA 245.1	0.00010	05/31/2018	20:43	E83079
1036	Nickel	0.1	mg/L	0.0025	U	EPA 200.7	0.0025	06/05/2018	23:13	E83079
1045	Selenium	0.05	mg/L	0.00050	U	EPA 200.8	0.00050	06/05/2018	10:25	E83079
1052	Sodium	160	mg/L	4.0		EPA 200.7	0.50	06/05/2018	23:13	E83079
1074	Antimony	0.006	mg/L	0.00050	U	EPA 200.8	0.00050	06/05/2018	10:25	E83079
1075	Beryllium	0.004	mg/L	0.00050	U	EPA 200.7	0.00050	06/05/2018	23:13	E83079
1085	Thallium	0.002	mg/L	0.00050	U	EPA 200.8	0.00050	06/05/2018	10:25	E83079
1094	Asbestos	7 MFL	MFL							

*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, *, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

SECONDARY CONTAMINANTS
62-550.320

Report Number / Job ID: 35394864001

PWS ID (From Page 1): 1464068

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification #
1002	Aluminum	0.2	mg/L	0.050	U	EPA 200.7	0.050	06/05/2018	23:13	E83079
1017	Chloride	250	mg/L	3.8	I	EPA 300.0	2.5	06/04/2018	20:20	E83079
1022	Copper	1	mg/L	0.00093	U	EPA 200.8	0.00093	06/05/2018	10:25	E83079
1025	Fluoride	2.0	mg/L	0.14		EPA 300.0	0.034	06/04/2018	20:20	E83079
1028	Iron	0.3	mg/L	0.18		EPA 200.7	0.020	06/05/2018	23:13	E83079
1032	Manganese	0.05	mg/L	0.0026	I	EPA 200.7	0.0025	06/05/2018	23:13	E83079
1050	Silver	0.1	mg/L	0.0025	U	EPA 200.7	0.0025	06/08/2018	15:42	E83079
1055	Sulfate	250	mg/L	5.6		EPA 300.0	2.5	06/04/2018	20:20	E83079
1095	Zinc	5	mg/L	0.010	U	EPA 200.7	0.010	06/05/2018	23:13	E83079
1905	Color	15	units	5.0		SM2120B-01	5.0	05/31/2018	12:09	E83079
1920	Odor	3	TON	2.0		SM 2150B	1.0	05/30/2018	13:08	E83079
1925	pH	6.5 - 8.5	Std. Units	7.7	Q	SM 4500-H+B	0.10	05/31/2018	09:36	E83079
1930	Total Dissolved Solids	500	mg/L	149		SM 2540C	5.0	06/01/2018	10:40	E83079
2905	Foaming Agents	0.5	mg/L	0.099	U,J	SM 5540C	0.099	05/30/2018	15:59	E83079

Q - Sample held beyond the accepted holding time.
J - Estimated value. Batch accepted based on LCS recovery.

*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, *, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

DISINFECTION BYPRODUCTS
62-550.310(3)

Report Number / Job ID: 35394864001
Disinfect Residual (mg/L): _____
PWS ID (From Page 1): 1464068

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Regulatory MRL**	Analysis Date	Analysis Time	DOH Lab Certification #
1009	Chlorite	1000	ug/L					20***			
1011	Bromate	10	ug/L					5.0 or 1.0****			

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Regulatory MRL**	Analysis Date	Analysis Time	DOH Lab Certification #
2450	Monochloroacetic Acid	N/A	ug/L					2.0			
2451	Dichloroacetic Acid	N/A	ug/L					1.0			
2452	Trichloroacetic Acid	N/A	ug/L					1.0			
2453	Monobromoacetic Acid	N/A	ug/L					1.0			
2454	Dibromoacetic Acid	N/A	ug/L					1.0			
2456	Total Haloacetic Acids (HAA5)	60	ug/L					---			

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Regulatory MRL**	Analysis Date	Analysis Time	DOH Lab Certification #
2941	Chloroform	N/A	ug/L					1.0			
2942	Bromoform	N/A	ug/L					1.0			
2943	Bromodichloromethane	N/A	ug/L					1.0			
2944	Dibromochloromethane	N/A	ug/L					1.0			
2950	Total Trihalomethanes (TTHM)	80	ug/L	0.32	U	EPA 524.2	0.32	---	06/05/2018	16:54	E83079

** Laboratories are required to adhere to the minimum reporting level (MRL) requirements of 40 CFR 141.131(b)(2)(iv).

*** Applicable to monitoring as prescribed in 40 CFR 141.132.(b)(2)(i)(B) and (b)(2)(ii).

**** Laboratories that use EPA Methods 317.0 Revision 2.0, 326.0 or 321.8 must meet a 1.0 µg/L MRL for bromate.

NOTE: Do not round values. Report results to the accuracy, precision, and sensitivity of the analytical method used.

*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, *, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

RADIONUCLIDES
62-550.310(6)

Report Number / Job ID: 35394864001

PWS ID (From Page 1): 1464068

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	RDL	Analysis Error	Analysis Date	Analysis Time	DOH Lab Certification #
4000	Gross Alpha (Excl Uranium)	15	pCi/L					3				
4002	Gross Alpha (Incl Uranium)	***	pCi/L	1.85	U	EPA 900.0	1.85	3	0.692	06/11/2018	19:18	E87683
4006	Combined Uranium**** (U-234, U-235, & U-238)	20	pCi/L					.67				
		30	ug/L					1				
4020	Radium-226	5	pCi/L	0.857	U	EPA 903.1	0.857	1	0.413	06/12/2018	21:45	E87683
4030	Radium-228			0.847	U	EPA 904.0	0.847	1	0.416	06/11/2018	11:29	E87683

** If the result exceeds 5 pCi/L, a measurement for radium-226 is required. Uranium is reported separately under Contam ID 4006.

*** If the results exceed 5 pCi/L, a measurement for radium-226 is required. If the results exceed 15 pCi/L, a measurement for Combined Uranium must be reported separately. The DEP/DOH will subtract the U value from the Gross Alpha (ID 4002) to determine compliance with MCL for Gross Alpha (Excl. U) of 15pCi/L. If the result for ID 4002 Gross Alpha (Including Uranium) does not exceed 15pCi/L, Combined Uranium need not be measured nor reported.

**** If using Uranium testing methods ASTM D5174 or EPA 200.8 only, then Analysis Error need not be reported.

*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, *, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

VOLATILE ORGANICS
62-550.310(4)(a)

Report Number / Job ID: 35394864001

PWS ID (From Page 1): 1464068

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	RDL	Analysis Date	Analysis Time	DOH Lab Certification #
2378	1,2,4-Trichlorobenzene	70	ug/L	0.41	U	EPA 524.2	0.41	0.5	06/05/2018	16:54	E83079
2380	cis-1,2-Dichloroethylene	70	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2955	Xylenes (total)	10,000	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2964	Dichloromethane	5	ug/L	0.44	U	EPA 524.2	0.44	0.5	06/05/2018	16:54	E83079
2968	o-Dichlorobenzene	600	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2969	para-Dichlorobenzene	75	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2976	Vinyl chloride	1	ug/L	0.39	U	EPA 524.2	0.39	0.5	06/05/2018	16:54	E83079
2977	1,1-Dichloroethylene	7	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2979	trans-1,2-Dichloroethylene	100	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2980	1,2-Dichloroethane	3	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2981	1,1,1-Trichloroethane	200	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2982	Carbon tetrachloride	3	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2983	1,2-Dichloropropane	5	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2984	Trichloroethylene	3	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2985	1,1,2-Trichloroethane	5	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2987	Tetrachloroethylene	3	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2989	Monochlorobenzene	100	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2990	Benzene	1	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2991	Toluene	1,000	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2992	Ethylbenzene	700	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079
2996	Styrene	100	ug/L	0.25	U	EPA 524.2	0.25	0.5	06/05/2018	16:54	E83079

NOTE: Results indicating non-detection with a reported lab MDL > .5 µg/L will not be accepted for compliance.

*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, *, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

OTHER CONTAMINANTS

Report Number / Job ID: 35394864001

PWS ID (From Page 1): 1464068

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification #
	pH		units	7.7		SM2120B-01		05/31/2018	12:09	E83079

*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, *, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

June 13, 2018

Ms. Jennifer Boone
Future Laboratories
5756 Stewart Street
Milton, FL 32570

RE: Project: Blackman 2018 Chem
Pace Project No.: 35394864

Dear Ms. Boone:
Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Baylor

Jeff Baylor for
Sakina Mckenzie
sakina.mckenzie@pacelabs.com
(386)672-5668
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Blackman 2018 Chem
Pace Project No.: 35394864

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Blackman 2018 Chem
Pace Project No.: 35394864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35394864001	**Well 1 EP**	Drinking Water	05/29/18 13:20	05/30/18 11:30

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Blackman 2018 Chem
Pace Project No.: 35394864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35394864001	Well 1 EP	EPA 200.7	LEC, SC1	11	PASI-O
		EPA 200.8	FDV	6	PASI-O
		EPA 245.1	AMS	1	PASI-O
		EPA 524.2	JLR	25	PASI-O
		EPA 900.0	NEG	1	PASI-PA
		EPA 903.1	KAC	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA
		SM2120B-01	AGS	2	PASI-O
		SM 2150B	SEW	2	PASI-O
		SM 2540C	MAJ	1	PASI-O
		SM 4500-H+B	KEK	1	PASI-O
		SM 5540C	CLL	2	PASI-O
		EPA 300.0	CMD	3	PASI-O
		EPA 335.4	BMU	1	PASI-O
		EPA 353.2	JDW	2	PASI-O

Pace Analytical Services, LLC
8 East Tower Circle
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ANALYTICAL RESULTS

Project: Blackman 2018 Chem
Pace Project No.: 35394864

Sample: Well 1 EP **Lab ID: 35394864001** Collected: 05/29/18 13:20 Received: 05/30/18 11:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	**0.050 U**	mg/L	0.10	0.050	1	06/04/18 23:42	06/05/18 23:13	7429-90-5	
Barium	**0.0060 I**	mg/L	0.010	0.0050	1	06/04/18 23:42	06/05/18 23:13	7440-39-3	
Beryllium	**0.00050 U**	mg/L	0.0010	0.00050	1	06/04/18 23:42	06/05/18 23:13	7440-41-7	
Cadmium	**0.00050 U**	mg/L	0.0010	0.00050	1	06/04/18 23:42	06/05/18 23:13	7440-43-9	
Chromium	**0.0025 U**	mg/L	0.0050	0.0025	1	06/04/18 23:42	06/05/18 23:13	7440-47-3	
Iron	**0.18**	mg/L	0.040	0.020	1	06/04/18 23:42	06/05/18 23:13	7439-89-6	
Manganese	**0.0026 I**	mg/L	0.0050	0.0025	1	06/04/18 23:42	06/05/18 23:13	7439-96-5	
Nickel	**0.0025 U**	mg/L	0.0050	0.0025	1	06/04/18 23:42	06/05/18 23:13	7440-02-0	
Silver	**0.0025 U**	mg/L	0.0050	0.0025	1	06/07/18 15:00	06/08/18 15:42	7440-22-4	
Sodium	**4.0**	mg/L	1.0	0.50	1	06/04/18 23:42	06/05/18 23:13	7440-23-5	
Zinc	**0.010 U**	mg/L	0.020	0.010	1	06/04/18 23:42	06/05/18 23:13	7440-66-6	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Antimony	**0.00050 U**	mg/L	0.0010	0.00050	1	06/04/18 23:45	06/05/18 10:25	7440-36-0	
Arsenic	**0.0023**	mg/L	0.0010	0.00050	1	06/04/18 23:45	06/05/18 10:25	7440-38-2	
Copper	**0.00093 U**	mg/L	0.0010	0.00093	1	06/04/18 23:45	06/05/18 10:25	7440-50-8	
Lead	**0.00050 U**	mg/L	0.0010	0.00050	1	06/04/18 23:45	06/05/18 10:25	7439-92-1	
Selenium	**0.00050 U**	mg/L	0.0010	0.00050	1	06/04/18 23:45	06/05/18 10:25	7782-49-2	
Thallium	**0.00050 U**	mg/L	0.0010	0.00050	1	06/04/18 23:45	06/05/18 10:25	7440-28-0	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	**0.00010 U**	mg/L	0.00020	0.00010	1	05/31/18 14:23	05/31/18 20:43	7439-97-6	
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	71-43-2	
Carbon tetrachloride	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	56-23-5	
Chlorobenzene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	108-90-7	
1,2-Dichlorobenzene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	95-50-1	
1,4-Dichlorobenzene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	106-46-7	
1,2-Dichloroethane	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	107-06-2	
1,1-Dichloroethene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	75-35-4	
cis-1,2-Dichloroethene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	156-59-2	
trans-1,2-Dichloroethene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	156-60-5	
1,2-Dichloropropane	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	78-87-5	
Ethylbenzene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	100-41-4	
Methylene Chloride	**0.44 U**	ug/L	0.50	0.44	1		06/05/18 16:54	75-09-2	
Styrene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	100-42-5	
Tetrachloroethene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	127-18-4	
Toluene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	108-88-3	
Total Trihalomethanes (Calc.)	**0.32 U**	ug/L	1.0	0.32	1		06/05/18 16:54		
1,2,4-Trichlorobenzene	**0.41 U**	ug/L	0.50	0.41	1		06/05/18 16:54	120-82-1	
1,1,1-Trichloroethane	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	71-55-6	
1,1,2-Trichloroethane	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	79-00-5	
Trichloroethene	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	79-01-6	
Vinyl chloride	**0.39 U**	ug/L	0.50	0.39	1		06/05/18 16:54	75-01-4	
Xylene (Total)	**0.25 U**	ug/L	0.50	0.25	1		06/05/18 16:54	1330-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Blackman 2018 Chem
Pace Project No.: 35394864

Sample: Well 1 EP **Lab ID: 35394864001** Collected: 05/29/18 13:20 Received: 05/30/18 11:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/05/18 16:54	460-00-4	Y
Toluene-d8 (S)	100	%	70-130		1		06/05/18 16:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/05/18 16:54	17060-07-0	
2120B Apparent Color	Analytical Method: SM2120B-01								
Apparent Color	**5.0**	units	5.0	5.0	1		05/31/18 12:09		
pH	**7.7**	units			1		05/31/18 12:09		
2150B Threshold Odor Number	Analytical Method: SM 2150B								
Temperature, Water (C)	**39.6**	deg C			1		05/30/18 13:08		
Threshold Odor Number	**2.0**	TON	1.0	1.0	1		05/30/18 13:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**149**	mg/L	5.0	5.0	1		06/01/18 10:40		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.7**	Std. Units	0.10	0.10	1		05/31/18 09:36		Q
5540C MBAS Surfactants	Analytical Method: SM 5540C Preparation Method: SM 5540C								
LAS Molecular Weight, g/mol	**320**				1	05/30/18 15:00	05/30/18 15:59		
MBAS, Calculated as LAS	**0.099 U**	mg/L	0.20	0.099	1	05/30/18 15:00	05/30/18 15:59		J(M1)
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.8 I**	mg/L	5.0	2.5	1		06/04/18 20:20	16887-00-6	
Fluoride	**0.14**	mg/L	0.050	0.034	1		06/04/18 20:20	16984-48-8	
Sulfate	**5.6**	mg/L	5.0	2.5	1		06/04/18 20:20	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	**0.0050 U**	mg/L	0.010	0.0050	1	06/07/18 07:10	06/08/18 10:23	57-12-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		05/30/18 18:01	14797-55-8	
Nitrogen, Nitrite	**0.025 U**	mg/L	0.050	0.025	1		05/30/18 18:01	14797-65-0	

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 451191
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 35394864001

METHOD BLANK: 2444307 Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00010 U	0.00020	0.00010	05/31/18 19:52	

LABORATORY CONTROL SAMPLE: 2444308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.002	0.0020	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2444309 2444310

Parameter	Units	2076817001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	<0.00010	.002	.002	0.0020	0.0019	94	91	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2444311 2444312

Parameter	Units	265281001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.008	.008	0.0066	0.0049	81	60	70-130	29	20	J(M1), J(R1)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 452094
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET Drinking Water
Associated Lab Samples: 35394864001

METHOD BLANK: 2448593
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	0.050 U	0.10	0.050	06/05/18 22:44	
Barium	mg/L	0.0050 U	0.010	0.0050	06/05/18 22:44	
Beryllium	mg/L	0.00050 U	0.0010	0.00050	06/05/18 22:44	
Cadmium	mg/L	0.00050 U	0.0010	0.00050	06/05/18 22:44	
Chromium	mg/L	0.0025 U	0.0050	0.0025	06/05/18 22:44	
Iron	mg/L	0.020 U	0.040	0.020	06/05/18 22:44	
Manganese	mg/L	0.0025 U	0.0050	0.0025	06/05/18 22:44	
Nickel	mg/L	0.0025 U	0.0050	0.0025	06/05/18 22:44	
Sodium	mg/L	0.50 U	1.0	0.50	06/05/18 22:44	
Zinc	mg/L	0.010 U	0.020	0.010	06/05/18 22:44	

LABORATORY CONTROL SAMPLE: 2448594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	2.5	2.5	100	85-115	
Barium	mg/L	.25	0.25	98	85-115	
Beryllium	mg/L	.025	0.025	98	85-115	
Cadmium	mg/L	.025	0.025	101	85-115	
Chromium	mg/L	.25	0.25	101	85-115	
Iron	mg/L	2.5	2.5	100	85-115	
Manganese	mg/L	.25	0.25	101	85-115	
Nickel	mg/L	.25	0.25	102	85-115	
Sodium	mg/L	12.5	12.3	98	85-115	
Zinc	mg/L	1.2	1.3	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2448595 2448596

Parameter	Units	35394978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/L	0.050 U	2.5	2.5	2.5	2.5	98	98	70-130	0	20	
Barium	mg/L	0.0057 I	.25	.25	0.25	0.25	99	99	70-130	0	20	
Beryllium	mg/L	0.00050 U	.025	.025	0.025	0.025	100	100	70-130	0	20	
Cadmium	mg/L	0.00050 U	.025	.025	0.025	0.025	100	99	70-130	0	20	
Chromium	mg/L	0.0025 U	.25	.25	0.25	0.25	101	101	70-130	0	20	
Iron	mg/L	0.020 U	2.5	2.5	2.5	2.6	102	102	70-130	0	20	
Manganese	mg/L	0.0025 U	.25	.25	0.25	0.25	100	100	70-130	0	20	
Nickel	mg/L	0.0025 U	.25	.25	0.25	0.25	99	99	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2448595 2448596

Parameter	Units	35394978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sodium	mg/L	7.0	12.5	12.5	19.6	19.6	101	101	70-130	0	20	
Zinc	mg/L	0.010 U	1.2	1.2	1.3	1.3	100	100	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 452942
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET Drinking Water
Associated Lab Samples: 35394864001

METHOD BLANK: 2453400 Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Silver	mg/L	0.0025 U	0.0050	0.0025	06/08/18 15:23	

LABORATORY CONTROL SAMPLE: 2453401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver	mg/L	.025	0.026	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2453402 2453403

Parameter	Units	35394861001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silver	mg/L	0.0025 U	.025	.025	0.027	0.027	106	107	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 452095
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Drinking Water
Associated Lab Samples: 35394864001

METHOD BLANK: 2448599 Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00050 U	0.0010	0.00050	06/05/18 09:58	
Arsenic	mg/L	0.00050 U	0.0010	0.00050	06/06/18 09:11	
Copper	mg/L	0.00093 U	0.0010	0.00093	06/06/18 09:11	
Lead	mg/L	0.00050 U	0.0010	0.00050	06/06/18 09:11	
Selenium	mg/L	0.00050 U	0.0010	0.00050	06/05/18 09:58	
Thallium	mg/L	0.00050 U	0.0010	0.00050	06/05/18 09:58	

LABORATORY CONTROL SAMPLE: 2448600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.05	0.052	103	85-115	
Arsenic	mg/L	.05	0.052	104	85-115	
Copper	mg/L	.05	0.053	105	85-115	
Lead	mg/L	.05	0.051	102	85-115	
Selenium	mg/L	.05	0.052	105	85-115	
Thallium	mg/L	.05	0.049	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2448601 2448602

Parameter	Units	35394972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.56 I ug/L	.05	.05	0.051	0.052	101	102	70-130	1	20	
Arsenic	mg/L	11.1 ug/L	.05	.05	0.063	0.064	105	105	70-130	1	20	
Copper	mg/L	0.065	.05	.05	0.12	0.12	110	109	70-130	0	20	
Lead	mg/L	0.0049	.05	.05	0.057	0.056	104	103	70-130	1	20	
Selenium	mg/L	0.50 U ug/L	.05	.05	0.049	0.051	98	101	70-130	3	20	
Thallium	mg/L	0.50 U ug/L	.05	.05	0.050	0.050	99	100	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2448603 2448604

Parameter	Units	35395467001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	<0.00050	.05	.05	0.051	0.050	101	101	70-130	0	20	
Arsenic	mg/L	0.0020	.05	.05	0.054	0.054	104	103	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2448603 2448604

Parameter	Units	35395467001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	<0.00093	.05	.05	0.052	0.052	103	103	70-130	0	20	
Lead	mg/L	<0.00050	.05	.05	0.051	0.051	102	102	70-130	0	20	
Selenium	mg/L	<0.00050	.05	.05	0.050	0.050	100	100	70-130	0	20	
Thallium	mg/L	<0.00050	.05	.05	0.050	0.051	101	101	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 452335
QC Batch Method: EPA 524.2
Associated Lab Samples: 35394864001

Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV

METHOD BLANK: 2449754 Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
1,1,2-Trichloroethane	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
1,1-Dichloroethene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
1,2,4-Trichlorobenzene	ug/L	0.41 U	0.50	0.41	06/05/18 16:30	
1,2-Dichlorobenzene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
1,2-Dichloroethane	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
1,2-Dichloropropane	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
1,4-Dichlorobenzene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Benzene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Carbon tetrachloride	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Chlorobenzene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
cis-1,2-Dichloroethene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Ethylbenzene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Methylene Chloride	ug/L	0.44 U	0.50	0.44	06/05/18 16:30	
Styrene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Tetrachloroethene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Toluene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Total Trihalomethanes (Calc.)	ug/L	0.32 U	1.0	0.32	06/05/18 16:30	
trans-1,2-Dichloroethene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Trichloroethene	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
Vinyl chloride	ug/L	0.39 U	0.50	0.39	06/05/18 16:30	
Xylene (Total)	ug/L	0.25 U	0.50	0.25	06/05/18 16:30	
1,2-Dichloroethane-d4 (S)	%	104	70-130		06/05/18 16:30	
4-Bromofluorobenzene (S)	%	97	70-130		06/05/18 16:30	
Toluene-d8 (S)	%	99	70-130		06/05/18 16:30	

LABORATORY CONTROL SAMPLE & LCSD: 2449755 2449756

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	21.7	111	109	70-130	2	40	
1,1,2-Trichloroethane	ug/L	20	19.8	19.9	99	99	70-130	0	40	
1,1-Dichloroethene	ug/L	20	21.5	20.9	107	104	70-130	3	40	
1,2,4-Trichlorobenzene	ug/L	20	19.0	19.4	95	97	70-130	2	40	
1,2-Dichlorobenzene	ug/L	20	20.2	20.4	101	102	70-130	1	40	
1,2-Dichloroethane	ug/L	20	21.9	21.1	109	105	70-130	4	40	
1,2-Dichloropropane	ug/L	20	21.8	21.5	109	107	70-130	1	40	
1,4-Dichlorobenzene	ug/L	20	19.4	19.9	97	100	70-130	3	40	
Benzene	ug/L	20	22.3	22.4	112	112	70-130	0	40	
Carbon tetrachloride	ug/L	20	21.3	21.1	106	105	70-130	1	40	
Chlorobenzene	ug/L	20	20.1	20.4	100	102	70-130	2	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

LABORATORY CONTROL SAMPLE & LCSD: 2449755 2449756

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	21.3	22.1	107	110	70-130	3	40	
Ethylbenzene	ug/L	20	21.3	21.6	107	108	70-130	1	40	
Methylene Chloride	ug/L	20	23.7	24.3	119	121	70-130	2	40	
Styrene	ug/L	20	20.3	20.2	102	101	70-130	1	40	
Tetrachloroethene	ug/L	20	16.2	17.2	81	86	70-130	6	40	
Toluene	ug/L	20	20.4	20.6	102	103	70-130	1	40	
Total Trihalomethanes (Calc.)	ug/L	80	80.2	80.2	100	100	70-130	0	40	
trans-1,2-Dichloroethene	ug/L	20	21.8	22.1	109	110	70-130	1	40	
Trichloroethene	ug/L	20	22.5	22.6	112	113	70-130	1	40	
Vinyl chloride	ug/L	20	22.1	23.0	110	115	70-130	4	40	
Xylene (Total)	ug/L	60	61.4	61.9	102	103	70-130	1	40	
1,2-Dichloroethane-d4 (S)	%				100	97	70-130			
4-Bromofluorobenzene (S)	%				105	104	70-130			
Toluene-d8 (S)	%				101	102	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 451207
QC Batch Method: SM2120B-01
Analysis Method: SM2120B-01
Analysis Description: 2120B Color
Associated Lab Samples: 35394864001

METHOD BLANK: 2444347
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Apparent Color	units	5.0 U	5.0	5.0	05/31/18 12:06	
pH	units	5.5			05/31/18 12:06	

SAMPLE DUPLICATE: 2444348

Parameter	Units	35394864001 Result	Dup Result	RPD	Max RPD	Qualifiers
Apparent Color	units	5.0	5.0	0	20	
pH	units	7.7	7.7	0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 451004
QC Batch Method: SM 2150B
Analysis Method: SM 2150B
Analysis Description: Threshold Odor Number
Associated Lab Samples: 35394864001

METHOD BLANK: 2442804
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Temperature, Water (C)	deg C	39.6			05/30/18 13:08	
Threshold Odor Number	TON	1.0 U	1.0	1.0	05/30/18 13:08	N2

SAMPLE DUPLICATE: 2443070

Parameter	Units	35394864001 Result	Dup Result	RPD	Max RPD	Qualifiers
Temperature, Water (C)	deg C	39.6	39.6		20	
Threshold Odor Number	TON	2.0	2.0	0	20	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 451394
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35394864001

METHOD BLANK: 2445251
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	06/01/18 10:39	

LABORATORY CONTROL SAMPLE: 2445252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	305	102	90-110	

SAMPLE DUPLICATE: 2445253

Parameter	Units	265516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	22.0	23.0	4	5	

SAMPLE DUPLICATE: 2445254

Parameter	Units	35394849002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	62.0	65.0	5	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 451136
QC Batch Method: SM 5540C
Associated Lab Samples: 35394864001

Analysis Method: SM 5540C
Analysis Description: 5540C MBAS Surfactants

METHOD BLANK: 2444067
Associated Lab Samples: 35394864001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
LAS Molecular Weight, g/mol		320			05/31/18 13:38	
MBAS, Calculated as LAS	mg/L	0.099 U	0.20	0.099	05/31/18 13:38	

LABORATORY CONTROL SAMPLE: 2444068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol			320			
MBAS, Calculated as LAS	mg/L	.3	0.32	107	90-110	

MATRIX SPIKE SAMPLE: 2444070

Parameter	Units	35394864001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol		0 U		320			
MBAS, Calculated as LAS	mg/L	0.099 U	.3	0.19 I	57	90-110	J(M1)

SAMPLE DUPLICATE: 2444069

Parameter	Units	35394864001 Result	Dup Result	RPD	Max RPD	Qualifiers
LAS Molecular Weight, g/mol		320	320			
MBAS, Calculated as LAS	mg/L	0.099 U	0.099 U		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 451816
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35394864001

METHOD BLANK: 2447525
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	06/04/18 10:21	
Fluoride	mg/L	0.034 U	0.050	0.034	06/04/18 10:21	
Sulfate	mg/L	2.5 U	5.0	2.5	06/04/18 10:21	

LABORATORY CONTROL SAMPLE: 2447526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	5	5.0	100	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2447527 2447528

Parameter	Units	35394861001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8 I	50	50	50.0	50.3	92	93	90-110	1	20	
Fluoride	mg/L	0.14	5	5	5.0	5.0	96	97	90-110	0	20	
Sulfate	mg/L	5.6	50	50	52.0	52.1	93	93	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2447529 2447530

Parameter	Units	35395525002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	78.8	50	50	127	127	96	97	90-110	0	20	L
Fluoride	mg/L	0.16	5	5	4.4	4.5	85	86	90-110	1	20	J(M1)
Sulfate	mg/L	17.3	50	50	60.3	60.7	86	87	90-110	1	20	J(M1)

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QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 452204
QC Batch Method: EPA 335.4
Associated Lab Samples: 35394864001

Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total

METHOD BLANK: 2449139 Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	0.0050 U	0.010	0.0050	06/08/18 10:01	

LABORATORY CONTROL SAMPLE: 2449140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.051	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449141 2449142

Parameter	Units	35394789002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0050 U	.025	.025	0.017	0.017	67	64	90-110	4	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449143 2449144

Parameter	Units	35395428001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0050 U	.025	.025	0.024	0.026	94	101	90-110	7	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 451094
QC Batch Method: EPA 353.2
Associated Lab Samples: 35394864001

Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

METHOD BLANK: 2443454
Associated Lab Samples: 35394864001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	05/30/18 17:28	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	05/30/18 17:28	

LABORATORY CONTROL SAMPLE: 2443455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 2443459

Parameter	Units	35394891002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	0.025 U	1	0.90	88	90-110	J(M1)

SAMPLE DUPLICATE: 2443458

Parameter	Units	35394891002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	
Nitrogen, Nitrite	mg/L	0.025 U	0.025 U		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Blackman 2018 Chem
Pace Project No.: 35394864

Sample: Well 1 EP **Lab ID: 35394864001** Collected: 05/29/18 13:20 Received: 05/30/18 11:30 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	**1.85U ± 0.692 (1.85) C:NA T:NA**	pCi/L	06/11/18 19:18	12587-46-1	
Radium-226	EPA 903.1	**0.857U ± 0.413 (0.857) C:NA T:81%**	pCi/L	06/12/18 21:45	13982-63-3	
Radium-228	EPA 904.0	**0.847U ± 0.416 (0.847) C:75% T:86%**	pCi/L	06/11/18 11:29	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 301261
QC Batch Method: EPA 900.0
Analysis Method: EPA 900.0
Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 35394864001

METHOD BLANK: 1474094
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.092 ± 0.196 (0.571) C:NA T:NA	pCi/L	06/11/18 19:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 301192
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Associated Lab Samples: 35394864001

METHOD BLANK: 1473734
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.244 ± 0.422 (0.755) C:NA T:85%	pCi/L	06/12/18 20:45	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: Blackman 2018 Chem
Pace Project No.: 35394864

QC Batch: 301193
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Associated Lab Samples: 35394864001

METHOD BLANK: 1473735
Matrix: Water
Associated Lab Samples: 35394864001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.493 ± 0.359 (0.690) C:75% T:81%	pCi/L	06/11/18 11:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Blackman 2018 Chem
Pace Project No.: 35394864

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
L	Off-scale high. Actual value is known to be greater than value given.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
Q	Sample held beyond the accepted holding time. Analysis initiated more than 15 minutes after sample collection.
Y	The laboratory analysis was from an improperly preserved sample.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Blackman 2018 Chem
Pace Project No.: 35394864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35394864001	Well 1 EP	EPA 200.7	452094	EPA 200.7	452120
35394864001	Well 1 EP	EPA 200.7	452942	EPA 200.7	453019
35394864001	Well 1 EP	EPA 200.8	452095	EPA 200.8	452119
35394864001	Well 1 EP	EPA 245.1	451191	EPA 245.1	451395
35394864001	Well 1 EP	EPA 524.2	452335		
35394864001	Well 1 EP	EPA 900.0	301261		
35394864001	Well 1 EP	EPA 903.1	301192		
35394864001	Well 1 EP	EPA 904.0	301193		
35394864001	Well 1 EP	SM2120B-01	451207		
35394864001	Well 1 EP	SM 2150B	451004		
35394864001	Well 1 EP	SM 2540C	451394		
35394864001	Well 1 EP	SM 4500-H+B	451176		
35394864001	Well 1 EP	SM 5540C	451136	SM 5540C	451765
35394864001	Well 1 EP	EPA 300.0	451816		
35394864001	Well 1 EP	EPA 335.4	452204	EPA 335.4	453099
35394864001	Well 1 EP	EPA 353.2	451094		

WO# : 35394864

35394864

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SHORT HOLD

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Future Laboratories	Report To:	Jennifer Boone	Attention:	
Address:	5756 Stewart Street	Copy To:		Company Name:	
Milton, FL 32570				Address:	
Email:	futurelabsinc@gmail.com	Purchase Order #:		Pace Quote:	
Phone:	850-910-3490 Fax:	Project Name:	Blackman ~~Pb/Sec, VOCs, Rads~~ 2018 Chem	Pace Project Manager:	sakina.mckenzie@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	4833 Line 9 and 10, Line 4 for Rads

Regulatory Agency

State / Location

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	200.7 ICP Metals, 200.8, Hg	Cyanide	TDS, MBAS, Color, Anions,	Odor	VOC 524.2	Radium 226	Radium 228	Gross Alpha	Residual Chlorine (Y/N)
1	Well 1 EP	DW	G	5/29/18	1320														X	X	X	X	X	X	X	X	
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SHORT HOLDS: ODOR, pH, Nitrate/Nitrite, MBAS, COLOR, Asbestos	HCL	5/28/18	14:51							
	Wanda Patterson	5/29/18	1430	Jennifer Boone	5/29/18	1430				
	Jennifer Boone	5/29/18	1500	Ted Batt PACE	5/30/18	1130	0.6 D338	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Wanda Patterson

SIGNATURE of SAMPLER: Wanda Patterson DATE Signed: 5/29/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.6 D338	Y	N	Y

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

WO#: 35394864

PM: SMM **Due Date: 06/13/18**

CLIENT: FUTLAB

Project #

Project Manager:

Client:

Date and Initials of person:
Examining contents: SB2
Label:
Deliver:
pH: SB2

Thermometer Used: T338 Date: 5/30/18 Time: 1130 Initials: KBI

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	0.6 (Visual)	0 (Correction Factor)	0.6 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	0.3 (Visual)	0 (Correction Factor)	0.3 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☑ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☑ Unknown

Tracking # 4278 3971 4071 / 4278 3970 0075

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: 1150 Qty: 2 coolers

		Comments:
Chain of Custody Present	☑Yes ☐No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐No ☐N/A	
Rush TAT requested on COC	☐Yes ☑No ☐N/A	
Sufficient Volume	☑Yes ☐No ☐N/A	
Correct Containers Used	☑Yes ☐No ☐N/A	
Containers Intact	☑Yes ☐No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐No ☐N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑Yes ☐No ☐N/A	
Headspace in VOA Vials? (>6mm):	☐Yes ☑No ☐N/A	
Trip Blank Present:	☐Yes ☐No ☑N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

2019 Annual Drinking Water Quality Report
BLACKMAN COMMUNITY WATER SYSTEM

We are pleased to report that our drinking water meets all federal and state requirements.

We're very pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water. Our water source is ground water from 2 wells which are shown on our data table. However, at the present time we are only using well #1. The wells draw from the Floridan Aquifer. Because of the excellent quality of our water, the only treatment required is chlorine for disinfection purposes. If you have any questions about this report or concerning your water quality, please contact Wanda Patterson at (850)603-2802. We encourage our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the 2nd Monday in each month at 6:30PM at the Blackman Community Center.

In the table on the following page, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
Picocurie per liter (pCi/L) - measure of the radioactivity in water.
"ND" means not detected and indicates that the substance was not found by laboratory analysis.
Parts per million (ppm) or Milligrams per liter (mg/l) – one part by weight of analyte to 1 million parts by weight of the water sample.
Parts per billion (ppb) or Micrograms per liter (µg/l) – one part by weight of analyte to 1 billion parts by weight of the water sample.
Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Blackman Community Water System has been routinely monitoring for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019 and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

2019 TEST RESULTS TABLE

Inorganic Contaminants

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Fluoride (ppm)	Mar & May 2018	N	0.15	0.14-0.15	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm
Sodium (ppm)	Mar & May 2018	N	4.7	3.9-4.7	N/A	160	Salt water intrusion, leaching from soil
Arsenic (ppb)	Mar & May 2018	N	5.7	2.3-5.7	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	Mar & May 2018	N	0.0066	0.0058-0.0066	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Lead (point of entry) (ppb)	Mar & May 2018	N	1.2	ND-1.2	0	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Exceeded (Y/N)	90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	Jun – Sep 17	N	0.0063	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm) Stage 1	Jan-Dec 19	N	0.2442	0.2 - 0.3	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	Aug-19	N	1.5	NA	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	Aug-19	N	10.7	NA	NA	MCL = 80	By-product of drinking water disinfection

Radioactive Contaminants

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228 or combined radium (pCi/L)	Mar & May 2018	N	0.697	ND-0.697	0	5	Erosion of natural deposits

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

(A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

(B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

(C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

(D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

(E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

In 2018 The Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are no sources of contamination identified for this system. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp or they can be obtained from Blackman Community Water System at 537-2527.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

In the wake of the recent national events, Blackman Community Water System is aware of elevated concern about lead levels in drinking water. We want to reassure you that our most recent lead and copper testing has shown our levels to be well within Federal limits. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Blackman Community Water System is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

We at Blackman Community Water System, Inc., would like you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to insuring the quality of your water. If you have any questions or concerns, please feel free to call any of the numbers listed above.