

Beaufort County School District

Solicitation Number: 20-013

Date Printed: October 9, 2019

Addendum 1 Date Issued: October 15, 2019 **Procurement Officer:** Kaylee Yinger

Phone: 843-322-2349

Kaylee. Yinger@beaufort.k12.sc.us Email:

Invitation for Bid (IFB)

Wastewater Treatment System Operations & Maintenance DESCRIPTION:

SUBMIT OFFER BY (Opening Date & Time): October 29, 2019 @ 2:00 PM

OUESTIONS MUST BE RECEIVED BY: October 22, 2019 NUMBER OF COPIES TO BE SUBMITTED: One (1) original

Offers must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior.

SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

MAILING ADDRESS: PHYSICAL ADDRESS:

Beaufort County School District Beaufort County School District

Procurement Office Procurement Office P.O. Drawer 309 2900 Mink Point Blvd Beaufort, SC 29901-0309 Beaufort, SC 29902

CONFERENCE TYPE:	LOCATION:	
DATE & TIME:		

AWARDS & AMENDMENTS:

Award will be posted at the Physical Address stated above on or after October 29, 2019. The award, this solicitation, and any amendments will be posted at the following web address: https://beaufortschools.net.

You must submit a signed copy of this form with Your Offer. By submitting a bid or proposal, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of ninety (90) calendar days after the Opening Date.

NAME OF OFFEROR:	(Full legal name of business submitting the offer)	ENTITY TYPE:
AUTHORIZED SIGNATU	URE (Person signing must be authorized to submit bindin	g offer to enter contract on behalf of Offeror named above)
PRINTED NAME		TITLE

PRINTED NAME

Instructions regarding Offeror's name: Any award issued will be issued to, and the contract will be formed with, the entity identified as the Offeror above. An offer may be submitted by only one legal entity. The entity named as the Offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, i.e., a separate corporation, partnership, sole proprietorship, etc.

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(Return Page 1	I'wo with Your Offer)
HOME OFFICE ADDRESS (Address for offeror's home office/Principal place of business):	NOTICE ADDRESS (Address to which all procurement and contract related notices should be sent):
PHONE NUMBER:	
EMAIL ADDRESS:	
PAYMENT ADDRESS (Address to which payments will be sent):	ORDER ADDRESS (Address to which all purchase orders will be sent):
Payment Address Same as Home Office Address	☐ Payment Address Same as Home Office Address
Payment Address Same as Home Notice Address	☐ Payment Address Same as Notice Address
(check one only)	(check one only)
7/	7
ACKNOWLEDGEMENT OF Amendment Number AMENDMENTS:	Amendment Issue Date
Offerors acknowledges Receipt of amendments by Indicating amendment number	
and its date of issue	
MINORITY PARTICIPATION- Are you a Minority I	Business Enterprise: Yes No
If yes, please include a copy of your certification.	

Questions and Answers:

1. Is there sample collection and analysis to be done? If so, where can I find a list of parameters and frequency?

Enclosed is the current permit and two of the relevant attachments to the permit. Also providing 2 months of lab analysis reports as examples. Contractor will provide all monitoring (daily), testing, labor and materials in accordance with SCDHEC regulations regarding the operation and maintenance of the treatment plant in accordance with NPDES permit # SCG570043. Reimbursable charges are outlined in the IFB. Previous reports are attached to this addendum.



Notice of Intent (NOI) - SCG570000 NPDES General Permit for Domestic Wastewater Treatment Plant Discharges (Design flows less than 500,000 gallons per day)

Submission of this Notice of Intent constitutes notice that the party identified in Section I is requesting to be authorized by an NPDES permit issued for Wastewater Treatment Plant discharges in South Carolina at a location(s) identified below. Becoming a permittee obligates such a discharge to comply with all terms and conditions of the issued NPDES General permit. ALL NECESSARY INFORMATION MUST BE INCLUDED WITH THIS FORM. AN ANNUAL OPERATING FEE OF \$100 IS REQUIRED FOR COVERAGE UNDER THIS PERMIT. See Instructions on pages 3.

I. Facility/Owner Information								
Name of Facility: James J. Davis Elementary School								
Facility Site Address: 364 Keans Neck Road								
City: Seabrook State: SC								
Owner Name: Beaufort County School District				Ph	one: <u>(</u>	343)_	322-0	792
Owner Mailing Address: 2950 Mink Blvd								
City:_Beaufort	State:SC		ZIP: 29	9902	(Operato	r Status	
II. Facility Contact Information								77.
Contact Name: Ed Miller					Phone:	(843) 32	2-0792
Contact Title: Director of Maintenance								
Mailing Address: 2950 Mink Blvd								1-
City:_Beaufort					State:	SC		ZIP: 29902
III. Site and Discharge Information		·						
A. SIC or Activity Codes: Primary: 8211	2 nd,	3 rc	1,		√ th,			
B. Does the facility currently have Wastewater Treatment	nent Plant Gene	eral Perr	nit cove	rage?	☑ Ye	s, <u>SCG</u>	5/000	□ No
C. List any other NPDES or ND Permit numbers for	the facility: SC	G5700	43	, <u>SC</u>	00274	81	, <u>ND</u>	······································
D. List the type of discharge (see item F below), the es	timated flow (in	gallons	s per day) assoc	iated wi	ith each	dischar	ge, the latitude and longitude (to the
nearest 15 seconds), and the name of the receiving	water to which	the dis	charge f	lows.	1			
Discharge Type	Flow (gpd)		Latitude	<u> </u>	'	Longitud	e	Receiving Waters
	(6)40)	Deg	Min	Sec	Deg	Min	Sec	
Treated Sanitary Wastewater	8,000	32	33	15	80	42	41	Roadside Drainage Ditch
E. Describe each discharge flow path from the point is needed). Indicate the type of discharge associate			-	t enter	s the rec	eiving	water (a	attach a separate sheet if more space
-		_						
Roadside Drainage Ditch to Halfmoon Creek to Wi	nale Branch Rive	er to Co	osaw Ri	ver				
F. (1) Identify which, if any, of the following are use	d:							
☐ UV disinfection ☐ Activated sludge system								
☐ Aerated lagoon								
☐ Land application of wastewater☐ Facultative lagoon								
☐ Trickling filters or trickling filter processes								
(2) Identify which, if any, of the following statement	ents are true:							
☐ This facility is subject to an existing effluer☐ The wastewater effluent includes hazardous		oils subi	ect to a	nother	regulate	nry mroo	ram	
☐ The wastewater effluent is mixed with other	r wastewater or	categor						ocess wastewater unless those
dischargers are in compliance with a differ	ent NPDES per	mit						
G. Locate the facility and each discharge on a U.S. G			inute qu	ad she	et. An	8½ x 11	сору с	of the portion of the map with the
facility and each discharge identified should be su	bmitted with th	is NOI.	•					francisco.
	•							ı

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 H. Describe your sludge disposal method. □ No sludge generated. □ Lagoon or other facility with no routine sl □ Disposal at an approved facility, such as a □ Disposal by land application. Indicate NI 	landfill or wa	astewater tr				
I. For each discharge described in D above whe the data is based on actual sampling results coperation and include all parameters on your design flow. In the spaces provided (or on discharge is present, make copies of the table	or, if estimated current permi an attachmen	d, the source t (if any). Th t), list any c	e of the estima ne design flow other pollutan	nted value. I (monthly av ts believed p	Data must be repres rerage) is based on to bresent and their co	entative of the facility's current he wastewater treatment facility
Type of Discharge: Treated Sanitary Wastev	vater					
Parameter	Maximu Va	ım Daily lue	(Monthly	n Flow Average) lluc	Number of Samples	Source of Estimate or Actual Data
Flow (MGD)	0.00)1	0.	008	669	Effluent Sampling
Biochemical Oxygen Demand (BOD ₅), mg/l	8.50)	3.3	AVG	22	Effluent Sampling
Total Suspended Solids (TSS), mg/l	12.00)	4.32	2 AVG	22	Effluent Sampling
Total Residual Chlorine (TRC), mg/l	1.0		0.1	I AVG	22	Effluent Sampling
pH (give high and low in range), S.U.	6.0	7.5	6.68	7.14	669	Effluent Sampling
Dissolved Oxygen (DO) Minimum, mg/l	5.1		5.19	AVG	669	Effluent Sampling
Total Ammonia as Nitrogen (NH ₃ -N), mg/l	N/A	\	N/A		N/A	N/A
Fecal Coliform (MPN), #/100 ML	17		2.68 AVG		22	Effluent Sampling
E. Coliform (MPN), #/100 ML	2,420		260.45	AVG	26	Effluent Sampling
J. Does the applicant own all properties necess Yes No	ary to allow f	or direct dis	scharge of wa	stewaters int	o the Waters of the	State?
If NO, for all private facilities (non-POTW's on the property of the permittee and which d					applicant for any c	onveyances of the discharge not
K. Use the space below to bring to the Department additional sheets if necessary.	ent's attention	n any additio	onal informati	on you feel s	hould be considere	ed in the permit decision. Attach
IV. Certification I certify under penalty of law that this documer designed to assure that qualified personnel gather system, or those persons directly responsible for accurate, and complete. I am aware that there are for knowing violations.	r and evaluate gathering the	the informatio	ation submitte n, the inform	d. Based on ation submit	my inquiry of the p	erson or persons who manage the f my knowledge and belief, true,
Print Name: Ed Miller	· ···			Т	itle: Director of Ma	intenance
Signature:					oate: June 27, 2018	

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P.O. Box 21866 Hilton Head Island, SC 29925 121 Mead Road Suite E Hardeeville, SC 29927

Phone 843.208.2006 Fax 843.208.2006

REPORT OF ANALYSIS

Client: Report Number: 19-1100

Project Name: JJ DAVIS WWTP Sample Matrix: WASTEWATER

Sampled By:

Report Date: 09-24-2019

SAMPLE IDENTIFICATION	LAB SAMPLE ID	COLLECTION DATE AND TIME	DATE AND TIME RECEIVED
Effluent Grab	19-1100-1	09/17/19 07:40	09/17/19 12:25
Effluent Composite	19-1100-2	09/17/19 07:40	09/17/19 12:25

Released by: Sheila Pate

Director of Laboratory Operations

S.C. Laboratory Certification: 27553001

P.O. Box 21866 Hilton Head Island, SC 29925 121 Mead Road Suite E Hardeeville, SC 29927

Phone 843.208.2006 Fax 843.208.2006

REPORT OF ANALYSIS

Lab Sample ID: 19-1100-1 Effluent Composite

Date Collected: 09/17/19 07:40

Parameter	Result	Unit	RL	Qualifier	Analyzed	Dil Fac	Method
Biochemical Oxygen Demand	<2.00	mg/L	2.0	B1,U	09/18/19 09:09		SM 5210B
Total Suspended Solids	3.70	mg/L	2.0		09/19/19 11:20		SM 2540D

Lab Sample ID: 19-1100-2 Effluent Grab

Date Collected: 09/17/19 07:40

Parameter	Result	Unit	RL	Qualifier	Analyzed	Dil Fac	Method
Fecal Coliform, 5 Tube MPN	<1.8	count/100 ml	1.8	F1.U	09/17/19 13:00	1	SM 9221-C F

Lab Data Qualifier and Qualifier Description

- F1 = The result of the following sample is based on a sample volume of 100mL. This result is not an estimated value.
- U = The analyte was analyzed for but not detected in the sample.
- B1 = The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.

P.O. Box 21866 Hilton Head Island, SC 29925

CHAIN OF CUSTODY RECORD

121 Mead Road, Suite E Hardeeville, SC 29927

1. Relinquished By 116 9-17	9-16-19 03-16 9-15		Composite Start Date/Time: Composite End Date/Time:			17-11 00-2 EFFLUENT				Preservation Used: 1 = None-Cool <6°C; 2 = Container Type: P = Plastic; G = Glass	Contact e-mail	Fax No				Phone 843.208.2006 Fax 843.208.2006	
		-19 6140	ite/Time:					Sample Description		$2 = Na_2S_2O_3/Icc; \ 3 = H_2SO_4; \ 4 = HCI; \ 5 = HNO_3; \ 6 = Other$							
	19-19	osite Temp°				9-17-19	9-13-1	Date Sampled		HCl; 5 = HNO ₃ ; 6 =	PO No:	Sampled by:	The state of the s	Project No.	Project Name: JJ DAVIS		
	Time 1225"	2				9-17-19 0240	9-13-19 0340	Time Sampled		Other				19-1100	JJ DAVIS		
2. Received by GELI:	1. Received By:					_	2	No. of Containers								CHAIN	
oy GELI:	By:					ס	ס	Container Type								CHAIN OF CUSTODY RECORD	
0					-	×	×	Grab Composite		+						STOD	
50						×	×	Wastewater	1.							Y RE	
0								Groundwater	PRESERVATIVE							COF	
3		-			-			Drinking Water	ERVA							9	
8								Other:	TIVE								
							×	BOD	_								
							×	rss	_	11							
		-				×		FECAL COLIFORM	2								
Date	Date									Ar			7	Regulatory Non-Regulatory			
20	0	+				-				alysi		5 days	124 hours	Regulatory			
1)19		-					-			Rec			U)	ory			
	Time									Analysis Required		0					
120	त			-								Coutine	☐ 48 Hours	□ Non-Regulatory		PAGE	
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INSTRUCTIONS FOR COMPLETING THE SLUDGE DISPOSAL SUPPLEMENT

1. Purpose:

This supplement will be completed as part of the NPDES or ND permit application. These applications and this supplement are submitted with the Preliminary Engineering Report (PER) submittal to DHEC on a new wastewater treatment plant (WWTP) or other sludge treatment facility. Also, this supplement will be used when reapplying for an expiring NPDES or ND permit.

2. Item by Item Instructions:

- I. Existing Facilities: Check the appropriate item. Where required in the item checked, fill in the blank with the appropriate date. Also, when required in the item checked, please include the appropriate sludge disposal report or other required information with the submittal of this supplement. Skip this section if the facility is proposed.
- II. Proposed Facilities: Check the appropriate item. Where required in the item checked, fill in the blank with the appropriate date. Also, when required in the item checked, please include the appropriate sludge disposal report or other required information with the submittal of this supplement. Attach a copy of the PER for the proposed facility. Skip this section if the facility is existing.

3. Office Mechanics:

Staple the Sludge Disposal Supplement to the NPDES or ND permit application. For reapplication of an expiring NPDES or ND permit, send to the Permit and Data Administration Section at the following Address:

Department of Health & Environmental Control Bureau of Water 2600 Bull Street Columbia, South Carolina 29201

For a new facility, an expansion of an existing facility, or a commercial sludge or septage disposal site, send the application package with the PER to the appropriate Section Manager at the above address. The application will be processed by the procedures of the Bureau of Water. Also, it will be filed in the Bureau's project file.

SLUDGE DISPOSAL AT ANOTHER WWTP: SLUDGE DISPOSAL REPORT A

REQUIREMENTS FOR A SLUDGE REPORT A

The following information, at a minimum, must be addressed in report format with the supporting documents included in the report.

A. Sludge Generator

- 1. Name.
- 2. Address.
- 3. Phone Number,
- 4. County.
- 5. NPDES or ND Permit Number (if applicable).
- 6. Plant capacity (MGD).
- 7. Amount of sludge generated per year (dry weight tons).
- 8. Size, description, and location of sludge storage.
- 9. Amount of stockpiled sludge and sludge age.
- Description of sludge treatment (sludge must be stabilized)
 Process to Significantly Reduce Pathogens (PSRP)*, if any.
 Process to Further Reduce Pathogens (PFRP)*, if any.
- 11. Current method of sludge disposal.
- 12. Letter of acceptance, including NPDES or ND number, of facility accepting sludge.
- 13. Amount of sludge transported, reported in dry tons per year.
- 14. Estimated percent solids and total liquid volume.
- * Provide a short description of PSRP or PFRP from State Regulation 61-9.503.32.

B. Sludge Analysis Information

- 1. TCLP toxicity test with acceptable ignitability, corrosivity, and reactivity lab report or rationale to demonstrate the non-hazardous nature of the sludge. (for existing facilities, a signed statement that no change in sludge constituents has occurred since the last EP or TCLP toxicity test and provide copy of the latest test results.)
- Name of the certified lab conducting the analysis (if applicable). address.
 phone number.
- 3. Other compounds required by NPDES or ND permit or present in effluent to treatment plant (if applicable).

Note: You may request a copy of the State Regulation 61-9.503, "State Domestic Sludge Management", and/or the SCDHEC guidance manual, "Beneficial Use of Wastewater Biosolids", dated February, 1996, for use in preparing documentation.

July 1, 1998

SLUDGE DISPOSAL AT A LANDFILL: SLUDGE DISPOSAL REPORT B

REQUIREMENTS FOR A SLUDGE REPORT B

The following information, at a minimum, must be addressed in report format with the supporting documents included in the report.

Sludge Generator

- Name.
- Address.
- Phone Number.
- County.
- NPDES or ND Permit Number (if applicable).
- Plant capacity (MGD).
- Amount of sludge generated per year (dry weight tons).
- Size, description, and location of sludge storage.
- Amount of stockpiled sludge and sludge age.
- 10. Description of sludge treatment (sludge must be stabilized) Process to Significantly Reduce Pathogens (PSRP)*, if any. Process to Further Reduce Pathogens (PFRP)*, if any.
- 11. Current method of sludge disposal.
- 12. Letter of acceptance from an official of the landfill accepting the sludge for disposal. If the landfill is not SWAIP (special waste) approved, an additional approval letter from SCDHEC, Bureau of Solid and Hazardous Waste Management must be submitted.
- 13. Amount of sludge transported, reported in dry tons per year.
- 14. Estimated percent solids and total liquid volume.
- * Provide a short description of PSRP or PFRP from State Regulation 61-9.503.32.

Sludge Analysis Information

- TCLP toxicity test with acceptable ignitability, corrosivity, and reactivity lab report or rationale to demonstrate the non-hazardous nature of the sludge. (for existing facilities, a signed statement that no change in sludge constituents has occurred since the last EP or TCLP toxicity test and provide copy of the latest test results.)
- Name of the certified lab conducting the analysis (if applicable). address. phone number.
- Other compounds required by NPDES or ND permit or present in effluent to treatment plant (if applicable).

You may request a copy of the State Regulation 61-9.503, "State Domestic Sludge Management", and/or the Note: SCDHEC guidance manual, "Beneficial Use of Wastewater Biosolids", dated February, 1996, for use in preparing documentation.

A minimum of 15% solids is usually required for disposal at most landfills. Contact landfill owner for specific requirements.

SLUDGE DISPOSAL BY LAND APPLICATION OR OTHER BENEFICIAL USE: SLUDGE DISPOSAL REPORT C

REQUIREMENTS FOR A SLUDGE REPORT C

The following information, at a minimum, must be addressed in report format with the supporting documents included in the report.

A. Sludge Generator

- 1. Name.
- Address.
- 3. Phone Number.
- 4. County.
- 5. NPDES or ND Permit Number (if applicable).
- 6. Plant capacity (MGD).
- 7. Amount of sludge generated per year (dry weight tons).
- 8. Size, description, and location of sludge storage.
- 9. Amount of stockpiled sludge and sludge age.
- Description of sludge treatment (sludge must be stabilized)
 Process to Significantly Reduce Pathogens (PSRP)*, if any.
 Process to Further Reduce Pathogens (PFRP)*, if any.
- 11. Current method of sludge disposal.
- 12. Letter of acceptance, including NPDES or ND number, of facility accepting sludge (if applicable).
- 13. Amount of sludge transported, reported in dry tons per year.
- 14. Estimated percent solids and total liquid volume.
- * Provide a short description of PSRP or PFRP from State Regulation 61-9.503.32.

B. Sludge Analysis Information

- 1. TCLP toxicity test with acceptable ignitability, corrosivity, and reactivity lab report or rationale to demonstrate the non-hazardous nature of the sludge. (for existing facilities, a signed statement that no change in sludge constituents has occurred since the last EP or TCLP toxicity test and provide copy of the latest test results.)
- 2. Name of the certified lab conducting the analysis (if applicable). address.
 - phone number.
- 3. Other compounds required by NPDES or ND permit or present in effluent to treatment plant (if applicable).
- 4. Method used to determine the reliability of sludge composition.
- 5. Total organic nitrogen (mg/kg).
- 6. Total inorganic nitrogen (mg/kg).
- 7. Ammonia nitrogen (mg/kg)
- 8. pH
- 9. Calcium Carbonate Equivalency (only required if the sludge is lime or alkaline treated).
- 10. Percent total solids.
- 11. Total arsenic (mg/kg).
- 12. Total cadmium (mg/kg).
- 13. Total copper (mg/kg).
- 14. Total lead (mg/kg)
- 15. Total mercury (mg/kg).
- 16. Total molybdenum (mg/kg).
- 17. Total nickel (mg/kg).
- 18. Total selenium (mg/kg).
- 19. Total zinc (mg/kg).

C. Application of Sludge (only required if the permittee will be land applying the sludge)

- 1. Description of method of transport to the proposed land sites.
- 2. Approximate time of year or schedule for the sludge application and how it relates to crop planting and/or harvesting.
- 3. Description of application method(s).
- 4. Name of contractor applying sludge (if applicable).

address.
phone number.

5. Type of equipment used to spread the sludge.

D. Application Site Information (only required if the permittee will be land applying the sludge)

1. General

- a. Name, address, and signature of landowner.
- b. Name, address, and party managing the site.
- c. Approximate schedule for sludge application.
- d. Previous sludge application amounts covered under Permit#____
- e. Additional soil additives applied on site (if any).
- f. Description of method to control access to the site.
- g. Method of odor control.
- h. Letter from each county stating that the proposed land application activity is consistent with the county solid waste management plan (new and/or expanding projects only).

2. Site Description

Scale Maps (preferably topographic & soils maps) indicating:

- a. Site location.
- b. Slope and drainage characteristics including the surrounding land.
- c. Adjacent land usage and locations of inhabited dwellings.
- d. All water supply wells within 1000 feet.
- e. Adjacent surface water bodies.
- f. Sludge disposal boundaries and buffer zones.
- g. location of proposed or existing groundwater monitoring wells (if applicable).
- h. Private roads, public roads, and right-of-ways.
- i. Certification of site suitability (see the Beneficial Use of Wastewater Biosolids manual, appendix E for more information).

3. Site Monitoring Plan

Proposed method of site monitoring indicating:

- a. Groundwater monitoring well locations and proposed construction details and method of sampling (if applicable).
- o. Soil monitoring methods and locations.
- c. Surface water sampling methods and locations (if applicable).
- d. Proposed parameters and frequency of sampling groundwater, surface water and/or soil.
- e. Metals testing, if required, due to previous application.
- f. Monitoring schedule to insure that soil pH will remain in agronomic ranges during the land application project.

Sludge Application Plan

- a. Typical crops to be grown and crop management plan.
- b. Sludge application rate (tons/acre on a dry weight basis).
- c. Total organic nitrogen (mg/kg).
- d. Total inorganic nitrogen (mg/kg).
- e. Ammonia nitrogen (mg/kg)
- f. pF
- g. Calcium Carbonate Equivalency (only required for lime/alkaline treated sludge).
- h. Percent total solids.

- i. Total arsenic (mg/kg).
- j. Total cadmium (mg/kg).
- k. Total copper (mg/kg).
- 1. Total lead (mg/kg)
- m. Total mercury (mg/kg).
- n. Total molybdenum (mg/kg).
- o. Total nickel (mg/kg).
- p. Total selenium (mg/kg).
- q. Total zinc (mg/kg).
- r. Formula and calculations used to determine plant available nitrogen and application rate.
- s. Estimated hydraulic loading rate (if applicable).
- t. Certification of crop management plan (see the Beneficial Use of Wastewater Biosolids manual, appendix E for more information).

E. Distribution & Marketing or other Alternative Programs

- 1. If a Class "A/EQ" material is produced for sale or give away, please attach the product use information sheet that is distributed with the sludge.
- 2. Include an explanation of how the product is made available to the consumer (truck pick up, bag, bulk, etc).
- 3. For proposed distribution and marketing programs, explain the anticipated user base and possible product demand for the material compared to projected production.
- 4. For existing distribution and marketing programs, please summarize the last calendar year's product production versus actual material sold and/or given away.
- 5. For other alternative beneficial uses (landfill cover, brick making, etc), please attach a detailed PER regarding the proposed use.
- 6. Include a letter from the county stating that the proposed sludge use activity is consistent with the county solid waste management plan (new and/or expanding projects only).

Note: You may request a copy of the State Regulation 61-9.503, "State Domestic Sludge Management", and/or the SCDHEC guidance manual, "Beneficial Use of Wastewater Biosolids", dated February, 1996, for use in preparing documentation.



NPDES Attachment Practical Quantitation Limits (PQLs) and EPA-Approved Methods (listing based on EPA Form 20)

EPA-Approved Methods must be used for the analysis of these pollutants or pollutant parameters. "EPA-Approved Methods" refers to the methods that have been approved under 40 CFR part 136 or are required under 40 CFR Chapter I, subchapter N or O. This includes analytical methods for CWA pollutants developed by the EPA, voluntary consensus standards bodies (VCSBs), and other governmental agencies (such as the U.S. Geological Survey), as well as Alternative Test Procedures (ATPs) developed by commercial method developers for nation-wide use. When more than one test procedure is approved under 40 CFR part 136 for the analysis of a pollutant or pollutant parameter, the test procedure used must be sufficiently sensitive as defined at 40 CFR 122.21(e)(3) and 122.44(i)(1)(iv).

"PQL" is the lowest minimum level (reporting limit) derived from the concentration of the lowest calibration standard taking into consideration the weights and/or volumes of the samples and all preparation and analysis steps in the method, if the SCDHEC certified laboratory performing the analysis can achieve a lower PQL than listed below, then the lower PQL must be reported.

"Alternative or Department Approved Methods" may be used for pollutants where there are no methods specified in 40 CFR part 136. The alternative method listed below must be used or a method approved by the Department, Laboratories may combine CWA and SW-846 methodologies for analysis of organic contaminants (e.g. EPA 624 and EPA 8260B). When combining CWA and SW-846 methodology, the most stringent calibration and QC criteria between the two methods must be met and both methods must be reported. The approved method must be reported as listed in 40 CFR 136 along with the "Alternative or Department Approved Methods" listed below (e.g. EPA 624/8260B):

R TOMAS EST				
No	Section V Part A			Alternative or Department Approved Methods
	Blochemical oxygen demand	2000	Composite	
b	Chemical oxygen demand	20,000	Composite	
C,	Total organic carbon	1000	Grab	
d.	Total suspended solids	1000	Composite	
e.	Ammonla	100	Composite	
	Total Kjeldahi Nitrogen (⊤KN)	100	Composite	
g _i h.	Temperature	-	Grab	
	pH		Grab.	
No:	Section V Part B	PQL (µg/l)	Sample Type	Alternative or Department Approved Methods
a.	Bromide	2000	Composite	
b.	Chlorine, total residual	50	Grab	
C,	Color (Platinum Colbalt)	5 CU	Grab	
	Color (ADMI)	25 CU	Grab	
	Fecal Coliform (MPN)	2/100mL	Grab	
d.	Fecal Coliform (MF)	1/100mL	Grab	
u.	Fecal Coliform(Colilert 18® ATP MPN)	1/100mL	Grab	
	E, coli	1/100mL	Grab	
e.	Fluoride	100	Composite	
f.	Nitrate-Nitrite	20	Composite	
g.	Nitrogen, total organic	-		
'n.	Oll & Grease	5 mg/l	Grab	
1.	Phosphorus, total	50	Composite	
].	Radioactivity	-	-	
<u>j(1)</u>	Alpha, total	-	Composite	
j(2)	Beta, total	-	Composite	
](3)	Radium, total	10	Composite	
J(4)	Radium 226, total	10	Composite	
k.	Sulfate	5000	Composite	
Ι,	Sulfide	1000	Grab	
	Sulfide (Un-Ionized)	100	Gian	
m.	Sulfite	2000	Composite	
n.	Surfactants	50	Grab	
0,	Aluminum, total	50	Composite	
p,	Barlum	50	Composite	
q.	Boron	50	Composite	
r.	Cobalt	20	Composite	
S,	Iron	20	Composite	

				Y
<u>t.</u>	Magneslum	50	Composite	
u.	Molybdenum	20	Composite	
٧.	Manganese	10	Composite	
W.	Tin	10	Composite	
Xi	Titanium	50	Composite	
	Section V Part G: Metals: Cyanide !!			
	and Phenois	PQL (µg/l)		Alternative or Department Approved Methods
1M	Antimony	5.0	Composite	《中華文章·美術》(1944年)。 1956年(1957年)
2M	Arsenic, total	5.0	Composite	
ЗМ	Beryllium	1.0	Composite	
4M	Cadmium, total	0.1	Composite	
5M.	Chromlum, total	5.0	Composite	
6M	Copper, total	10	Composite	
.7M	Lead	2.0	Composite	
8M	Mercury	0.0005	Grab	EPA 1669 (sampling); EPA 1631E (analysis)
9M	Nickel	10	Composite	
10M:	Selenium	5.0	Composite	
11M.	Silver, total	5.0	Composite	
12M	Thallium	0.5	Composite	
13M		10	Composite	
	Cyanide, total	10	Grab	
	Phenois, Total	5.0	Grab	
	Section V.Part G. Dioxin	PQL (µg/l)		Alternative or Department Approved Methods/
111.7.1E	2,3,7,8-Tetrachlorodibenzo-p-dioxin	10 pg/l	Composite	Sure Individual and Supplied to the sure of the sure o
Market .	Section V/Part C: GC/MS Volatile	To pgn	Composite	
751-15-11 finite	Compounds	Mun log	Sample Type	Alternative or Department Approved Methods
	Acrolein	5.0	Grab	
	Acrylonitrile	5.0	Grab	
3V	Benzene	2.0	Grab	
4V	Bis (Chloromethyl) Ether	2.0	Composite	
5V	Bromoform	2.0	Grab	
6V	Carbon Tetrachloride	2.0	Grab :	
7V	Chlorobenzene	2.0	Grab	
8V	Chlorodibromomethane	2.0		
9V	Chloroethane	2.0	Grab Grab	
	2-Chloroethyl vinyl ether			
117	Chloroform	5.0	Grab	
	Dichlorobromomethane	2.0	Grab	
	Dichlorodifluoromethane	2.0	Grab	
	1,1-Dichloroethane	2.0	Grab	
~		2.0	Grab	
	1,2-Dichloroethane	2.0	Grab	- my man and a second
	1,1-Dichloroethene	2.0	Grab	
	1,2-Dichloropropane	2.0	Grab	
	1,3-Dichloropropylene	2.0	Grab	,
	Ethylbenzene	2.0	Grab	
	Methyl bromide	2.0	Grab	
	Methyl chloride	2.0	Grab	
	Methylene chloride	2.0	Grab	
	1,1,2,2-Tetrachloroethane	2.0	Grab	
	Tetrachloroethylene	2.0	- Grab	
	Toluene	2.0	Grab	
	1,2-trans-dichloroethylene	2.0	Grab	
	1,1,1-Trichloroethane	2.0	Grab	
28V	1,1,2-Trichloroethane	2.0	Grab	
29V	Trichloroethylene	2.0	Grab	
	Trichlorofluoromethane	2.0	Grab	
	Vinyl chloride	2.0	Grab	
Q V				1
强聚	Section V Part C: GC/MS Fraction Acid Compounds	34643065		Water Barrier St. President William Control of the

1 1 1	2-Chlorophenol	10	Commodia	
1A	2,4-Dichlorophenol	10	Composite	
2A		. 10	Composite	
3A	2,4-Dimethylphenol	10	Composite	
4A	4,6-Dinitro-o-cresol	10	Composite	
5A	2,4-Dinitrophenol	50	Composite	
.6A	2-Nitrophenol	10	Composite	
7A	4-Nitrophenol	10	Composite	
	4-Chloro-3-methylphenol (P-Chloro-m-			
8A	cresol)	10	Composite	
9A	Pentachlorophenol	10	Composite	
10A	Phenol	10.	Composite	
.11A	2,4,6-Trichlorophenol	10	Composite	
SEP.	Section V Part C: GC/MS Fraction			
No	Base-Neutral Compounds	PQL (µg/l)	Sample Type	Alternative or Department Approved Methods
1B	Acehaphthene	10	Composite	3,000
2B	Acenaphthylene	10	Composite	
3B	Anthracene	10	Composite	
4B	Benzidine	100	Composite	
5B	Benzo(a)anthracene	10	Composite	
6B	Benzo(a)pyrene	10	Composite	
7B	3,4-benzofluoranthene	10	Composite	
8B	Benzo(ghl)perylene	10	Composite	
9B	Benzo(k)fluorantherie		Composite	
	Bis(2-chloroethoxy) methane	10		
		10	Composite	
11B	Bls(2-chloroethyl)ether	10 .	Composite	
	Bls (2-Chloro-1-methylethyl)ether			
	(2,2'-Oxybis(2-chloro-propane)) ¹	10	Composite	
	Bis(2-ethylhexyl) phthalate	10	Composite	
	4-Bromophenyl phenyl ether	10	Composite	
	Butyl Benzyl Phthalate	10	Composite	
	2-Chloronaphthalene	10	Composite	
17B	4-Chlorophenyl phenyl ether	10	Composite	
THAT	Section V Part C GC/MS Fraction	FAMILIES		
No	Base-Neutral Compounds	PQL (µg/l)	Sample Type	Alternative or Department Approved Methods
	Chrysene	10	Composite	and the second
19B	Dibenzo(a,h)anthracene	10	Composite	
	1,2-Dichlorobenzene	2.0	Grab	See Footnote 3
	1,3-Dichlorobenzene	2.0	Grab	See Footnote 3
22B	1,4-Dichlorobenzene	2.0	Grab	See Footnote 3
	3,3'-Dichlorobenzidine	10	Composite	OCC 7 GOLITOLO G
	Diethyl phthalate	10		
	Dimethyl phthalate	10	Composite	
	Di-n-butyl phthalate		Composite	
	8 4 5 4 10 4 1	10	Composite	
		10	Composite	
	2,6-Dinitrotoluene	10	Composite	
	Di-n-octyl phthalate	10	Composite	
	1,2 Diphenylhydrazine	10	Composite	8270D
	Fluoranthene	10	Composite	
	Fluorene	10	Composite	
	Hexachlorobenzene	10	Composite	
34B	Hexachlorobutadlene	10	Composite	
35B	Hexachlorocyclopentadiene	10	Composite	
	Hexachloroethane	10	Composite	
	Indeno(1,2,3-c,d)pyrene	10	Composite	
	Isophorone	10	Composite -	
	Naphthalene	10	Composite	
	Nitrobenzene			·
	n-Nitrosodimethylamine	10	Composite	
	n-Nitrosodi-n-propylamine	10	Composite	
	HISINII OSOHISESOFODVIAMINE	10	Composite	

43B	n-Nitrosodiphenylamine	10	Composite	
	Phenanthrene	10	Composite	
	Pyrene	10	Composite	
	1,2,4-Trichlorobenzene	2.0	Grab	See Footnote 3
	Section V. Parti CV. Pesticides	PQL (µg/l)		
1P	Aldrin	0.050	Composite	Alternative or Department Approved Methods
	alpha-BHC			
2P	beta-BHC	0,050	Composite	
3P.		0.050	Composite	
4P	gamma-BHC	0.050	Composite	
5P	delta-BHC	0.050	Composite	
6P	Chlordane	0.50	Composite	
	4,4'-DDT	0.050	Composite	
8P	4,4'-DDE	0.050	Composite	
9P	4,4'-DDD	0.050	Composite	
{		0.050	Composite	
	Endosulfan I (a-Endosulfan)	0.050	Composite	
	Endosulfan II (b-Endosulfan)	0.050	Composite	
13P	Endosulfan sulfate	0.050	Composite	
14P	Endrin	0.050	Composite	
	Endrin aldehyde	0.050	Composite	
	Heptachlor	0.050	Composite	
17P	Heptachlor Epoxide	0.050	Composite	
	Polychlorinated Biphenyls (PCBs,			
18-24F	Aroclors)	0.50	Composite	
25P	Toxaphene	0.50	Composite	
把	Other Parameters/	PQL (µg/l)	Sample:Type:	Alternative or Department Approved Methods
	Acetone	50	Grab '	8260B
	Alachlor	0.05	Composite	8081B
	Atrazine	1.0	Composite.	8141B
	AOX (Adsorbable Organic Halldes)	20	·	
	n-Butylbenzene	5.0	Grab	8260B
	sec-Butylbenzene	5.0	Grab	8260B
· ·	tert-Butylbenzene	5.0	Grab	8260B
	Carbofuran	10 .	Composite	8318A
	3-Chlorophenol	10	Composite	8270D
	4-Chlorophenol	10	Composite	8270D
	Chlorophenoxy Herblcide 2,4,5,-TP	5.0	Composite	
ļ	Chlorophenoxy Herbloide 2,4-D	5.0	Composite	
	Chloropyrifos	1.0	Composite	8141B
	Chromium III	10	Composite	Chromlum total result minus Chromlum VI result
	Chromlum VI	10	Grab	on one of the original of the
9480G	Other Parameters	PQL (µg/l)		Alfernative or Department Approved Methods
PER PROPERTY	Dalapon	5.0	Composite	8151A
	Demeton, O & S	2.0	Composite	8141B
	Di(2-ethylhexyl) adipate	10	Composite	525,2
	Enter out yntersyn adipate	10	Composite	020,2
	1,2-Dibromo-3-chloropropane (DBCP)	0.02	Grab	8011
	1,1-Dichloroethylene			
	1,2–cls-Dichloroethylene	2.0	Grab	9260B
	1,2-trans-Dichloroethylene	2.0	Grab	8260B
	2,3-Dichlorophenol	2.0	Grab	99705
		10	Composite	8270D
	2,6-Dichlorophenol	10	Composite	8270D
	2,6-Dichlorophenol	10	Composite	8270D
	3,4-Dichlorophenol	10	Composite	8270D
	Dilsopropylether		Grab	8260B
	Dilsopropylether Dinoseb	2.0	Grab Composite	8151A
	Dilsopropylether Dinoseb 1,4 Dioxane	2.0 2.0		8151A 8260B SIM
	Dilsopropylether Dinoseb		Composite	8151A

Endothall	20	-	548.1
Enterococcus	1/100mL	Grab	
Ethylene dibromide (EDB)	0.02	Grab	8011
Formaldehyde	. 50	Grab	8315
Glyphosate	10		547
Guthlon (Azinphos-methyl)	1.0	Composite	8141B
2-Hexanone	10	Grab	8260B
Isopropylbenzene	5.0	Grab	8260B
p-lsopropyltoluene	5.0	Grab	8260B
Malathlon	1.0	Composite	
2-Methyl-4-Chlorophenol	20	Composite	8270D
3-Methyl-6-Chlorophenol	20	Composite	8270D
4-Methyl-2-Pentanone	. 10	Grab	8260B
1-Methylnaphthalene	-	Composite	8270D
2-Methylnaphthalene	10	Composite	8270D
Methoxychlor	0.50	Composite	See Footnote 2
Mirex	10	Composite	
Nitrate	20	Composite	
Nitrite	20	Composite	
Nitrosodibutylamine	10 .	Composite	8270D
Nitrosodiethylamine	10	Composite	8270D
Nitrosopyrrolidine	10	Composite	8270D
Oxamyl	20	Composite	531.1, 8321B
Parathion, methyl & ethyl	0.20	Composite	
Pentachlorobenzene	10	Composite	8270D .
Pentachlorethane	2.0	Grab	8260B(DAI)
Picloram	1.0	Composite	8151A
n-Propylbenzene	5.0	Grab	8260B
Salinity	н.	Grab	
Simazine	0.10	Composite	8141B
Styrene	2.0	Grab	8260B
1,2,4,5-Tetrachlorobenzene	10	Composite	8270D
2,3,4,6-Tetrachiorophenol	10	Composite	8270D
Tetrahydrofuran	20	Grab	
Tributyltin	-	<u> </u>	
Trichlorofluoromethane	2.0	Grab	
2,4,5-Trichlorophenol	10	Composite	8270D
1,2,4-Trimethylbenzene	5.0	Grab	8260B
1,3,5-Trimethylbenzene	5.0	Grab	8260B
Turbidity	1 NTU	Grab	
Vlnyl Acetate	5.0	Grab	8260B
Xylenes, total	6.0	Grab	8260B

¹ Formerly Bis(2-chlorolsopropyl) ether

 $^{^{2}}$ EPA 608 may be used for Methoxychlor, however the QC requirements from EPA 608.2 must be met.

 $^{^3}$ 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and 1,2,4-Trichlorobenzene are regulated as volatile compounds. Refer to 40 CFR Part 136.

P.O. Box 21866 Hilton Head Island, SC 29925 121 Mead Road Suite E Hardeeville, SC 29927

Phone 843.208.2006 Fax 843.208.2006

REPORT OF ANALYSIS

Client: BEAUFORT GROUP LLC

ATTN: MR. BOB GROSS

PO BOX 1028

BEAUFORT, SC 29901-1028

Report Number: 19-1100

Project Name: JJ DAVIS WWTP Sample Matrix: WASTEWATER

Sampled By: BRETT OBERHOLTZER (CLIENT)

Report Date: 09-24-2019

SAMPLE IDENTIFICATION	LAB SAMPLE ID	COLLECTION DATE AND TIME	DATE AND TIME RECEIVED
Effluent Grab Effluent Composite	19-1100-1	09/17/19 07:40	09/17/19 12:25
	19-1100-2	09/17/19 07:40	09/17/19 12:25

Released by: Sheila Pate

Director of Laboratory Operations

S.C. Laboratory Certification: 27553001

P.O. Box 21866 Hilton Head Island, SC 29925 121 Mead Road Suite E Hardeeville, SC 29927

Phone 843.208.2006 Fax 843.208.2006

REPORT OF ANALYSIS

Lab Sample ID: 19-1100-1 Effluent Composite

Date Collected: 09/17/19 07:40

Parameter	Result	Unit	RL	Qualifier	Analyzed	Dil Fac	Method
Biochemical Oxygen Demand	<2.00	mg/L	2.0	B1,U	09/18/19 09:09		SM 5210B
Total Suspended Solids	3.70	mg/L	2.0		09/19/19 11:20		SM 2540D

Lab Sample ID: 19-1100-2 Effluent Grab

Date Collected: 09/17/19 07:40

Parameter	Result	Unit	RL	Qualifier	Analyzed	Dil Fac	Method
Fecal Coliform, 5 Tube MPN	<1.8	count/100 ml	1.8	F1.U	09/17/19 13:00	1	SM 9221-C F

Lab Data Qualifier and Qualifier Description

- F1 = The result of the following sample is based on a sample volume of 100mL. This result is not an estimated value.
- U = The analyte was analyzed for but not detected in the sample.
- B1 = The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.

P.O. Box 21866 Hilton Head Island, SC 29925 Phone 843.208.2006 Fax 843.

121 Mead Road, Suite E Hardeeville, SC 29927

Phone 843.208.2006 Fax 843 208 2006	RAR DAR DANK			CHAI	CHAIN OF CUSTODY RECORD	USTO	Ϋ́	EC(RD											-	•	
Client BEAUFORT GROUP	JP																		PAGE	1	0	OF J
Report Address: PO BOX 1028	co l	Project Name	Project Name: JJ DAVIS											CC	MPLI	NCE	MONI	TORIN	COMPLIANCE MONITORING: YES		No No	5
BEAUFORT, SC 29901-1028	-1028	Invoice Address	17 1100												Q	Regulatory	Ž		□ Non-Regulatory	egulat	No.	1
Attn: BOB GROSS		HINOICE VOILE	S												7	1 24 hours			☐ 48 Hours	SIL		
Phone No: (843) 982-0606														_	☐ 5 days	lays		3	A Boutine	Ф		
Fax No		Sampled by	1.1	1	1													(
Contact e-mail:		PO No.	Die	Olean	10	150																
Preservation Used: 1 = None-Cool <6°C; Container Type: P = Plastic: G = Glass	$e\text{-Cool} \le 6^{\circ}\text{C}; \ 2 = \text{Na}_{2}S_{3}O_{3}\text{flee}; \ 3 = \text{H}_{2}\text{SO}_{6}; \ 4 = \text{HCI}; \ 5 = \text{HNO}_{3}; \ 6 = \text{Other}$	HCl; 5 = HNO ₃ ; 6 =	Other								H			1	Ana	lysis	Req	Analysis Required				
								PR	SER	PRESERVATIVE			2									
Sample ID	Sample Description	Date Sampled	Time Sampled	lo. of Containers	ontainer Type	Frab	Composite	Vastewater roundwater	rinking Water	ther:	D	3	CAL COLIFORM									
1-0011-61	EFFLUENT	9.13.	9-13-19 174	2	ס ס	-			-	-	BC	TS	-				-		-			
19-11-00-n	EFFLUENT	0 -	0.0				>	+			×	×					-					
		7-17-1	7-17-19 0240	_	ס	×	×						×									
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Composite Start Date/Time: Composite End Date/Time:	omposite End Date/Time:																					
9-16-19 07-16	9-17-19 0340	Composite Temp °C	2																			
2. Relinguation By:	- All	9-19-19	Time 1225"	1. Received By:	By:										Date			Time	Tie I			
Comments:		Date *	Time 2	2. Received by GELI:	by GELI:	E STATE OF THE STA	1 03	0	8	E					Dateq)	7/17	19	=	80:1/ bl	ig	7	
								Rece	ived	Received on ice (circle): (res	ircle)	(E)		No O	ice Pack	*		ZD ec	Receipt Temp°C	Temp	°°	
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