



April 4, 2022

original to B-SW

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PARKSON \$

APR -4 PM 2:

Louisiana Department of Environmental Quality OES -Waste Permits Division

Post Office Box 4313

Baton Rouge, LA 70821-4313

Attn: Ms. Yolunda Righteous J.D., Administrator

Re:

Notice of Deficiencies #1 - Closure Plan Modification

Cleco Power, LLC Brame Energy Center

Fly Ash Pond

D-079-0390/P-0005-R1-M1 Agency Interest No. 2922

Dear Ms. Righteous:

Providence Engineering and Environmental Group LLC (Providence) on behalf of Cleco Power LLC (Cleco) Brame Energy Center (BEC) herby submits five copies of a Solid Waste Closure Plan Modification for the Type I surface impoundment (Fly Ash Pond) at the Brame Energy Center. This modification is being submitted to satisfy the Louisiana Department of Environmental Quality's (LDEQ) NOD requesting the closure plan be submitted as a minor permit modification. Also included is the \$1,650 permit review fee.

Should you have any questions or need any additional information, please do not hesitate to contact me at (225) 766-7400 or Samuel Wise at (318) 484-7739.

Sincerely,

Gary Leonards, P.E.

Engineering Services Director

Providence Engineering and Environmental Group LLC



RECEIPT OF CHECK

Master AI #:

2922

Name on Check:

Providence Engineering and Environmental Group

Master File Name:

CLECO Power LLC - Brame Energy Center

Check Received Date: 4/4/2022

Check Date:

4/4/2022

Check Number:

20772

Check Amount (\$):

\$1,650.00

Staff Entry:

P00333122

Date data entered:

4/5/2022

Media:

SOLID WASTE

Comments:

Closure Plan Modification

CLECO POWER LLC

BRAME ENERGY CENTER
ASH MANAGEMENT AREA
LENA, RAPIDES PARISH, LOUISIANA



RESPONSE TO NOTICE OF DEFICIENCIES #1 CLOSURE PLAN MODIFICATION

D-079-0390/P-0005-R1-M1

AGENCY INTEREST NO. 2922

APRIL 2022

Providence Engineering and Environmental Group LLC
1201 Main Street
Baton Rouge, LA 70802
(225) 766-7400
www.providenceeng.com
Providence Project No: 002-286



TABLE OF CONTENTS

RESPONSE SOLID WASTE PERMIT APPLICATION

LIST OF ATTACHMENTS

Attachment

- 3 Zoning Documentation
- 4 Certificate of Registration and/or Certificate of Good Standing from the Secretary of State
- 41 Closure Plan and Drawing of Final Contours (If Applicable)

INTRODUCTION

Cleco Power LLC (Cleco) – Brame Energy Center is an electric utility power station located near Boyce in Rapides Parish, Louisiana. This closure plan modification is being submitted to update the final closure methodology for the Type I surface impoundment, Fly Ash Pond, to comply with federal regulations for the disposal of coal combustion residual (CCR) material.

RESPONSES

Environmental Scientist Comment

General

Due to this submittal being a minor modification, please complete and submit the appropriate Application Form for the facility.

The completed Type I/Type II Surface Impoundments Application Form has been provided for review.

Geology Comments

Section 4.0

Closure Plan Narrative Description states that groundwater concentrations will be verified using groundwater protection standards established per 40 CFR 257.95 for the constituents listed in Appendix IV to 40 CFR Part 257 and that these parameters will be continued to be monitored during the closure period. This is incorrect, as the facility is in Detection monitoring and should be monitoring Appendix III parameters. Update this statement to reference the parameters in Appendix III and the current groundwater monitoring parameters in this permit.

The closure plan has been revised to only address requirements for the Louisiana Solid Waste regulations. While CCR regulations will be addressed, they will be handled separately with EPA. Please see the revised Closure Plan included as Attachment 41.

Under Closure Plan Narrative Description, bullet point five states that groundwater concentrations will be verified using groundwater protection standards established per 40 CFR 257.95 and bullet point six states that samples of the clay liner will be compared to LDEQ Risk Evaluation/Corrective Action Program (RECAP) screening standards. Please clarify whether samples will be held to 40 CFR 257.95 protection standards or RECAP screening standards.

All analytical data will be compared to applicable RECAP standards. The closure plan has been revised to only address requirements for the Louisiana Solid Waste regulations. While CCR regulations will be addressed, they will be handled

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separately with EPA. Please see the revised Closure Plan included as Attachment 41.

Section 9.0

Groundwater Sampling beneath the Fly Ash Pond, and Figure 3, Groundwater Sampling Locations, suggest two locations for sampling beneath the Fly Ash Pond. The Department requests a third sampling location in the middle of the Fly Ash Pond.

Section 9.0 and Figure 3 have been revised to include a third sampling location for the Fly Ash Pond as requested by LDEQ.

Section 10.0

Analytical Testing references oil samples and this should be revised to state groundwater samples. Additionally, current groundwater monitoring constituents are listed as the analytical parameters. Please clarify if Appendix III and IV for 40 CFR 257 will be sampled.

The closure plan has been revised to only address requirements for the Louisiana Solid Waste regulations. While CCR regulations will be addressed, they will be handled separately with EPA. Please see the revised Closure Plan included as Attachment 41.

Section 14.0

Data Evaluation and Reporting references soil samples and this should be revised to state groundwater samples. Additionally, this section states that groundwater samples will be compared to RECAP standards and groundwater protection standards established per 40 CFR 257.95 are not mentioned. Please clarify whether samples will be held to 40 CFR 257.95 protection standards or RECAP screening standards.

Section 12.0 has been revised to address data evaluation and reporting for groundwater and soil. Section 14.0 has been removed as it was duplicate information.

-	TO.			 -
	HILL	PO	WFR	•

SOLID WASTE PERMIT MODIFICATION APPLICATION

Department of Environmental Quality
Office of Environmental Services
Waste Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

Solid Waste Permit Application Type I / Type II Surface Impoundments



NOTE: A Guidance document has been prepared by the Louisiana Department of Environmental Quality (LDEQ) to assist the permit applicant in completing this Louisiana Solid Waste Permit Application for Type I/Type II Surface Impoundments. The Guidance should be consulted and utilized prior to providing responses to the information required to be contained in this application.

ALL facility plans, specifications, and operations represented and described in this application shall be prepared under the supervision of and certified by a professional engineer licensed in the State of Louisiana.

Site geology and groundwater conditions at facilities shall be characterized by a **geologist** or a **professional engineer licensed** in the **State of Louisiana** with **expertise** in geotechnical engineering and hydrogeology.

PLEASE TYPE OR PRINT

1. Facility and Permit Applicant Information	n						
A. Facility Name Cleco Brame Energy Center – Fly Ash Pond				Agency Interest 22	(AI) Number		C. SIC code 4911
D. Mailing Address 2030 Donahue Ferry Rd.		City Pineville			State LA	Zip. 71:	360
E. Type of Application: ☐ New application ☐ Major Modification ☐ Minor Modification	reg	arding the su	ıbm	nment 1 proof of ittal of the permi	t application		
G. Type of Operation (check each applicable box) Type I industrial Type II residential/commer	rcial	H. Operation	nal		te 🛭 Existi ty 🖾 Existi		Proposed Proposed
I. Individual/Company - Name of Owner Cleco Power LLC					Permi	ttee/]	Permit Holder
J. Individual/Company - Name of Operator (if different	t from	Owner)			Permi	ttee/	Permit Holder
K. Parent Company (if applicable)					Permi	ttee/	Permit Holder
L. Ownership Status (if leased, attach a copy of lease in Owned by Applicant Leased yrs. of le		achment 2)		1. Ownership (Cl			
N. Solid Waste Permit or Order to Upgrade Number P-0005R1				regulated utilit municipal gov	ernment		
O. Solid Waste Facility Number GD-079-0390				state government federal govern other, specify			
P. Total site acreage 6,000		Q. Acreag 68.5	ge to	be used for disp	osal		
R. Anticipated proposed remaining life: mos. ≥30 yrs. S. Maximum proposed capacity: your yds³ and 3,127,162.6 wet tons					ons		
T. Provide a brief history of solid waste permitting acti permits, modifications, and closure activities. P-0005 was originally issued in 1981 and most recently				npoundment(s), in	ncluding, but	not	limited to,
U. List the name of all units of the facility that are inclu- Unit 2 Metal Cleaning Waste Pond, the Bottom Ash Pon This modification is applicable to only the Fly Ash Pon	ond, an				in Standard	Pern	nit P-0005-R1.

Solid Waste:				
P-0379R1 (05/02/2016) P-0005R1 (11/18/2016)				
P-0027R1 (11/18/2016)				
P-0062R1 (11/18/2016)				
Beneficial Use Plan (07/17/2019)				
Air:				
Units 1&2 2360-00030-V4 (02/20/2019),				
PSD-LA-728 (05/08/2008),				
Acid Rain Permit No. 2360-00030-IV5 (2/20/	/2019),			
Unit 3 2927-V6 (05/27/2020),				
PSD-LA-711 (M-3) (02/22/2013), Acid Rain Permit No. 2927-IV5 (2019),				
CAIR Permit No. 2927-IV3 (2019),				
Water:				
LPDES LA008036 (2014) - Renewal submitt	red 03/13/2019			
W. List of all environmental permits for which NA		••	ds to app	ly for, related to this site.
 Facility Physical Location and Pr Nearest Town (in same parish as the facility) 		tion	B.	Parish(es) Rapides
C. Geographic Location: Section 80 Townshi				
D. GPS coordinates				N.
Location	L	atitude		Longitude
Centerpoint of the site	31.397628	decimal degrees		92.719419 decimal degrees
Centerpoint of unit Fly Ash Pond	31.397086	decimal degrees		92.704736 decimal degrees
Centerpoint of unit Bottom Ash Pond	31.397086 decimal degrees			92.704736 decimal degrees
Centerpoint of unit Unit 2 Metal Cleaning Waste Pond	31.399342	decimal degrees		92.725106 decimal degrees
Centerpoint of unit	de	cimal degrees		decimal degrees
Centerpoint of unit	de	cimal degrees		decimal degrees
Centerpoint of unit	de	cimal degrees		decimal degrees
Centerpoint of unit	de	cimal degrees		decimal degrees
Centerpoint of unit		cimal degrees		decimal degrees
Front gate of the site		cimal degrees		decimal degrees
E. Physical Location (identify by street number 275 Rodemacher Rd, Lena, LA 71447		of roads, or by mile	eage and	direction from an intersection.
F. Provide a brief description of the site oper			· · · · · ·	1
Cleco Brame is an electric utility power station G. Provide a description of the modifications.				Dal.
Update the final closure methodology for the l				ms for the disposal of coal
combustion residual material	ing rish rolle to c	ompry with rederar	regulatio	ns for the disposar of cour
3. Local Zoning (updated zoning is not re				wever we recommend providin
copy of most recent zoning if the permit applie			_	17
A. Facility Zoning Classification of the Facilit NA	ty at 1 ime of Appi		Rapides	al Zoning Authority S Parish Zoning Commission
C. Local Zoning Authority Contact Theodore Fontaine, Jr.		Address (Includin 5610 E. Coliseum		Mail Drop, or Division)
City		Zip	Divu.	Business Phone
Alexandria		71303		318-487-5401
D. Attach zoning in Attachment 3 Zoning	affidavit Zor		if required	d by LAC 33:VII.513.B.2)
Other				

V. List of all environmental permits issued to this site (include dates of issuance, permit numbers).

4. Confidentiality						
Is confidentiality being requested for any infor If "yes," list the sections for which co that is separate from this application. this application. Consult Guidance d	onfidentiality is r Information for	equested below. Confi which confidentiality	□Yes ☑No identiality requests require a submittal vis requested should not be submitted with			
5. Fee Information						
Has the required fee been paid in accordance v	vith LAC 33:VII	.1501? X Yes N	o .			
6. LAC 33:I.1701 Requirements						
 A. Does the applicant have federal or state end a similar nature to, the permit for which the partnerships, corporations, or other entition participate in the environmental management in the permit.) 	his application is es who own a co	being submitted? (The introlling interest of 5	nis requirement applies to all individuals, 19% or more in your company, or who			
Cleco Dolet Hills Power Station - P-I V2, Acid Rain Permit 2660-00007-V	0037, P-0038, P	-0039, P-0040, P-004 0760-00001-IR; LPI	1, P-0064R1, Title V 2660-00007- DES permit LA:0062600			
 Cleco Teche Power-Station Title V Per 00007-IR; LPDES permit LA00028 		V2, Acid Rain Permit 2	2660-00007-IV3, CAIR permit 2660-			
 Cleco Coughlin Power Station – Titl 00002-IV2, CAIR permit 0920-000 	e V Permit 092 02-IT; LPDES	0-00002-V3, PSD-La permit LA:0002879	A-635 (MI, Acid Rain Permit 0920-			
 Cleco Acadia Power Station—Title V P IV1, CAIR permit 0040-00105-IR 	ermit 0040-0010	05-V2,PSD-LA-645(M2), Acid Rain Permit 0040-00105-			
 list states in which permits are held: L 	ouisiana					
B. Does the applicant owe any outstanding fe • If "yes", provide an explanation.		lties to the LDEQ?	Yes ⊠No			
 C. Is the applicant a corporation or limited li If "yes," attach a copy of the Certifical State. Attach the appropriate certifical 	te of Registration	and/or Certificate of	Good Standing from the Secretary of			
7. Certification and Signatures						
CERTIFICATION OF RESPONSIBLE O submitted in the attached document, and I he complete to the best of my knowledge, information, including the possibility of	reby certify undensition, and belie	er penalty of law that ef. I am aware that the	this information is true, accurate, and			
Name George Broussard Title Director – Brame Energy Center						
Company Cleco Power LLC	Suite, mail dro	e, mail drop, or division Street or P.O. Box 275 Rodemacher Road				
City Lena	State LA	Zip 71447	Business Phone 318-793-1200			
Signature of responsible official (as defined in	n LAC 33:VII.I		Date: 4 4 2022			
CERTIFICATION OF APPLICATION P and I am familiar with the information submi application meets the requirements of LAC 3 submitting false information, including the pe	tted in this perm 3:VII.Subpart 1.	it application and that I am aware that there	t the facility as described in this permit			
Name Title						

Elizabeth Smith

Waste Services Director

Company Providence Engineering and En	vironmental Gr	oup LLC	Suite, me	ail drop, o	or division		
Street or P.O. Box 1201 Main Street		City	on Rouge			State LA	Zip 70802
Business phone 225-766-7400	Cell Phone (O	ptional)	Email (optional) Elizabethsmith@providence			videnceeng	g.com
Signature of preparer:	fe			. ~			2022
described in the permit applicat knowledge, information, and be	ion were prepar	ed under my	supervisio	n and are			
Name Gary Leonards, PE			Title Engineer	Services	Manager		
Company Providence Engineering and Environmental Group LLC	S	Suite, mail dr	op, or divis	sion		t or P.O. B Main Stree	
City Baton Rouge		State LA	Zip 7080	02	The state of the s	ness Phone 766-7400	
8. Facility Contact Information Select the primary contact by che application. Only <i>one</i> primary contact by the application.	ecking the box a ontact should be	fter the perso	on whom w	da ill be the p		ROFESS	
a. Manager of Facility who is lo Name George Broussard	ocated at site						Primary Contact
Title Director – Brame Energy Center		Comp Cleco	oany Power LL	С		,	
Suite, Mail Drop, or Division			or P.O. Bo				
City State Lena LA			Zip 71447				
Business Phone 318-793-1194	Cell Phon	e (Optional) E-mail (Optional) George.broussard				eco.com	
b. On-site contact regarding wa	iste permit						
Name Elizabeth Lee							Primary Contact
Title Environmental Coordinator			Company Cleco Power LLC				1 9
Suite, Mail Drop, or Division			eet or P.O. Box 5 Rodemacher Rd.				
City	·	State		1	Zip		

voemond	Cell Phone (Optional)			E-mail (Optional) Elizabeth.lee@cleco.com		
respondence s	should be dire	cted				
					Primary Contact	
ger	Com					
Suite, Mail Drop, or Division						
City Pineville			<i>Zip</i> 71367			
					m	
Annual Mair	itenance Fees	□a □t	c ot	her (specify	below)	
					Primary Contact	
	Com	pany				
9	Stree	t or P.O. Box				
City			State Zip			
Cell Ph	one (Optional,	l) E-mail (Optional)				
d Service A	roge					
	leas	Wet to	ns/week	We	t tons/year	
do a build	Waste Ty		Off-Site	On-Site		
	Residentia	1				
	Industrial	2,554		132,822		
	Commerci	al				
	Other					
	Annual Main	Cell Phone (Optional) Annual Maintenance Fees Comp Stree Comp Stree Cell Phone (Optional) Cell Phone (Optional) Master Ty Residentia Industrial Commercia	Cell Phone (Optional) Cell Phone (Optional) Company Street or P.O. Box P.O. Box 5000. State LA Cell Phone (Optional) Company Street or P.O. Box State Cell Phone (Optional) Wet to the disposed: ide a brief e: Waste Type On-Site Residential Industrial 2,554 Commercial	Cell Phone (Optional) E-mail (Optional)	Cleco Power LLC	

C. Areas serviced by the fac	ility				
Only waste generated by		Living	reton	St. M	artin
facility	Concordia	Madis		St. M	The state of the s
All parishes	De Soto	Morel		The second secon	mmany
Out-of-state	East Baton R		itoches	Tangi	
Out-or-state	East Carroll	Orlean		Tensa	
Acadia	East Felicians			Terrel	The state of the s
Allen	Evangeline		emines	Unior	
Ascension	Franklin		Coupee	Verm	
Assumption	Grant	Rapid		Verno	10000 (C)
Avoyelles	☐ Iberia	Red R			ington
Beauregard	☐ Iberville	Richla		Webs	
Bienville	Jackson	Sabine			Baton Rouge
Bossier	Jefferson Day				Carroll
Caddo	☐ Jefferson	St. Ch		and the same of th	Feliciana
Calcasieu	☐ La Salle	St. He		Winn	Circiana
Caldwell	Lafayette	St. Jar		willin	
Cameron	Lafourche		nn the Baptist	Other	
Catahoula	Lincoln	St. La		_ other	
D. Provide the maximum da	ys of operation per wee	k and hours per facility		naximum hou	rs of operation
within a 24-hour period).	7 days/week 24 hrs/da	ny			
Provide the normal days 7 days/week 24 hrs/day	or operation per week o	and hours per facility of	perating day (with	hin a 24-hour	period).
List the hours of operation	during normal operati	no hours.	Sunday	7 am to	7 pm
	7 pm Tuesday		Wednesday	7 am to	7 pm
		$\frac{7}{2}$ am to $\frac{7}{2}$ pm	Saturday	$\frac{7}{7}$ am to	7 pm
	-1 /			_	=1
10. Enforcement Action					
Does the facility presently have					upon the facility
pursuant to any enforcement a					
 If "yes," attach a list of 	of all such enforcement a	actions, settlement agree	ements, and conse	nt decrees fro	m the federal
government or LDEQ issued to the facility and/or entered into between the federal government and/or LDEQ. For each					
action, list the type of action, its tracking number, and the date that the action was issued. Summarize the conditions					
imposed by the enforce	cement action, settlemen	t agreement, and/or con	sent decree in Att	tachment 5.	It is not necessary
to submit a copy of th	e referenced action.				
 If "no," has the facilit 	y been issued any enforce	cement actions and/or en	ntered into any set	ttlement agree	ements, and/or
consent decrees withi	n the last three (3) years	? □Yes □No			
 If "yes," attach a 	summary as described a	bove in Attachment 5.			
11. Location Area Info	rmation				
Airports					
A. List the distance from the	facility to the nearest a	irport.			
B. Does the facility dispose	of putrescible waste?	Yes □ No			
If "yes," is the facility					
	end of the runway for an	v public-use airport us	ed by turbojet air	craft? \ Ye	s \square No
	d of the runway for any				
C. For Type II facilities only					
D. If "yes" to 11.B or 11.C,					
Administration (FAA) in A		greations to the affected	auporijoj unu ir	ic i cuciui A	aution
Master Plan					

E. Attach in Attachment 7 an area master plan, which shall show the current facility, the road network, major drainage systems, drainage flow patterns, location of closest population centers, nearest public use airport (if disposing of putrescible waste) within a 5-mile radius, the location of the 100-year flood plain, and other pertinent information.
F. Describe access to the facility.
Traffic and Land Use
G. For facilities receiving waste from offsite, attach in Attachment 8 a copy of a letter from the appropriate agency or agencies stating that the facility will not have a significant negative impact on the traffic flow of area roadways and that the construction, maintenance, or proposed upgrading of such roads is adequate to withstand the weight of the vehicles.
H. Describe the existing land use within a three-mile radius of the facility.
I. Attach a <u>current</u> aerial photograph representative of current land use within a one-mile radius surrounding the facility in Attachment 9 .
Population
J. Describe the estimated population and the population density within a three-mile radius of the facility. (Provide the source of this information.)
Environmental Characteristics
 K. Is the facility perimeter located within 1,000 feet of any of the following critical/sensitive environmental sites: wetlands, estuaries, wildlife-hatchery areas, habitats of endangered species, archaeological sites, historic sites, publicly-owned recreation areas, and similar critical environmental areas? Yes No If "yes," describe the measures the applicant will implement to prevent any impacts to areas from surface impoundment operations and list all known areas within 1,000 feet in Attachment 10.
L. Attach documentation from the appropriate state and federal agencies substantiating the above areas in Attachment 11.
M. Has the facility received waste prior to October 9, 1993? Yes No
 N. If wetlands are present on site, does the applicant have a 404 permit? Yes No N/A (NOTE: The wetland determination letter should be attached in Attachment 11.) If "yes," attach a copy of the 404 permit in Attachment 12. If "no," has the facility applied for a 404 permit? Yes No If "yes," attach a copy of the 404 application in Attachment 12.
Wells and Faults
O. Attach in Attachment 13 a scaled map showing the location of all known or recorded shot holes, seismic lines, and wells within the facility and within 2,000 feet of the facility perimeter.
P. Attach a scaled map showing the location of all water wells within one mile of the facility perimeter in Attachment 14.
 Q. Are there any known or recorded shot holes, seismic lines, and/or wells located within the facility? (Provide the source of this information.) Yes No If "yes," provide a plan to prevent adverse effects on the environment from the shot holes, seismic lines, and/or wells located within the facility.
R. Attach a scaled map showing the location of all recorded faults within the facility and within one mile of the facility perimeter in Attachment 15 .
S. Are there any existing faults extending through the facility? (Provide the source of this information.) \[\subseteq \text{Yes} \subseteq \text{No} \]
• If "yes," attach in Attachment 16 geophysical mapping or stratigraphic correlation of boring logs verifying their presence and provide a discussion of measures that will be taken to mitigate adverse effects on the facility and the environment.
T. For units that have not received waste prior to October 9, 1993 , are there any existing faults within 200 feet of the facility that have had displacement in Holocene time? (Provide the source of this information.) \(\sumsymbol{\substack}\) Yes \(\sumsymbol{\substack}\) No
 If "yes," attach a demonstration that an alternate setback distance of 200 feet will prevent damage to the structural integrity of the unit and will be protective of human health and the environment in Attachment 17.
Seismic Impact

U. Is the facility located within a seismic impact zone? (Provide the source of this information.) \(\subseteq \text{Yes} \subseteq \text{No} \)
• If "yes," attach in Attachment 18 a demonstration that the facility will be designed and operated so that it can withstand the stresses caused by the maximum ground motion on all structural components, including liners, leak-detection systems, leachate collection, treatment, and removal systems; final covers; and run-on/run-off systems.
Unstable Areas
 V. Is the facility located in an unstable area? (Provide the source of this information.) Yes No If "yes," attach in Attachment 19 a demonstration that the facility will be designed to ensure the integrity of all structural components, including liners, leak-detection systems, leachate collection, treatment, and removal systems; final covers; run-on/run-off systems.
Utilities
W. Attach a scaled map showing the location of all pipelines, power lines, and rights-of-way within the site in Attachment 7.
Emergency Response (NOT required for modifications)
X. Attach a copy of the facility's emergency response plan AND approval of the plan from the State Fire Marshal in Attachment 20.
12. Facility Characteristics
A. Attach in Attachment 7 drawing(s) including, as applicable, property lines, original contours (shown at not greater than five foot intervals), buildings, units of the facility, drainage, ditches, and roads.
B. Provide a description of the perimeter barriers and other control measures used to prevent unauthorized ingress or egress except by willful entry. At a minimum, each facility entry point shall be continuously manned, monitored, or locked during operating hours; each facility entry point shall be locked during non-operating hours; and facilities that receive waste from off-site sources shall post readable signs that list the types of waste that can be received at the facility.
C. Attach in Attachment 7 a figure demonstrating that there is an adequate buffer zone at the site. At a minimum, the buffer zone should be 200 feet between the facility and the property line.
 D. Did the units of the facility exist prior to April 1, 2010? Yes No If "no" and the adjacent property contains a structure currently being used as a church prior to the submittal of a permit application, then no less than 300 feet shall be provided between the facility and the common property line. This requirement shall not apply to any surface impoundment or disposal facility existing prior to April 1, 2010; to any portion of such facility that has been closed or that has ceased operations; or to future expansions of the permitted disposal area of any such facility.
E. If a reduction in the buffer zone requirements is requested, attach in Attachment 21 copies of notarized affidavits from all landowners having an ownership interest in property located less than 200 feet from the facility (or 300 feet for a church). Additionally, attach copies of approved buffer waivers in Attachment 21.
F. Provide a description of the device or method used to determine wet weight tonnage, sources (in-state or out-of-state and, if industrial waste, where it was generated), and types of incoming waste (commercial, residential, infectious, etc.). This description shall also include the facility's central control and record keeping system for tabulating this information.
G. Provide a description of the device or method used to control entry of the waste and to prevent entry of unauthorized deliverables (examples, hazardous waste, TSCA-regulated PCB waste, or unauthorized solid waste). This description shall also include the facility's central control and record keeping system for tabulating this information.
13. Surface Hydrology
A. Provide a description of the method(s) to be used to prevent surface drainage through the operating areas of the facility.

B. Attach a description of the facility runoff collection system in Attachment 22 . At a minimum, provide the design for surface-runoff-diversion levees, canals, or devices to prevent drainage from the units of the facility that have not received final cover. The proposed system shall be designed to collect and control at least the water volume resulting from a 24-hour/25-year storm event and/or the peak discharge from a 25-year storm event.
C. Describe how runoff from operating areas or areas that contain solid waste and have not yet received interim compact cover or final cover are managed such that this contaminated runoff is not allowed to mix with non-contaminated surfarunoff.
D. Describe the facility run-on control system. At a minimum, a run-on control system shall be installed to prevent runduring the peak discharge from a 25-year storm event and/or to collect and control at least the water volume result from a 24-hour/25-year storm event.
E. Provide the rainfall amount from a 24-hour/25-year storm event. (Provide the source of this information.)
 F. Are there any aquifer recharge areas in the site or within 1,000 feet of the site perimeter? (Provide the source of this information.) ☐ Yes ☐ No If "yes," attach a map of aquifer recharge areas and describe the measures planned to protect those areas from the adverse impact of operations at the facility in Attachment 23. (Provide the source of this information.)
G. Is the facility located in a 100-year flood plain? Yes No (Provide the source of this information.) Attach a map of the 100-year flood plain with the facility location clearly identified on the map in Attachment 24.
H. Describe how the facility plans to prevent restriction or reduction of the flow of the 100-year base flood or reduction the temporary water-storage capacity of the flood plain. At a minimum the site shall be filled to bring site elevation about flood levels, or perimeter levees or other measures must be provided to maintain adequate protection against a 100-year flood.
I. Describe how the facility is designed to ensure that the flooding does not affect the integrity of the facility or result in a washout of solid waste.
14. Facility Plans and Specifications General
A. What is the proposed maximum final elevation? ft National Geodetic Vertical Datum (NGVD) Elevation of maximum excavation? ft NGVD Width at widest point? ft Length at longest point? ft
B. Attach in Attachment 25 plan-view drawings showing original contours, proposed elevations of the base of units prior to installation of the liner system, proposed final contours, slopes, levees, and other pertinent features. Include detailed rawings as necessary.
C. Attach in Attachment 26 representative cross-sectional drawings showing original and final grades, elevations, drainage, the location and type of liner, leachate collection system, and other pertinent information. Include detailed drawings as necessary.
Liners
D. Attach in Attachment 27 a description of the liner system, which shall include verification the liner(s) is/are designed and operated in accordance with LAC 33:VII.713.B.3 and rationales for particular designs of such systems. If the applicant seeks approval for an alternate liner system, describe how the alternate system would offer equivalent or greater groundwater protection at the site as compared to the composite liner design as outlined in LAC 33:VII.713.B.3.d.
E. Attach in Attachment 28 a quality assurance/quality control plan for excavation and liner construction and maintenar that ensures liners are designed, constructed, installed, and maintained properly.
Levee Construction
F. Attach in Attachment 30 a description of the levee system, which shall include the type, source, and volume of material required for levee construction. In order to protect the facility against a 100-year flood, the levee shall be engineered minimize wind and water erosion, have a grass cover or other protective cover to preserve structural integrity, and provide adequate freeboard protection against a 100-year flood.
Gas Collection/Treatment or Removal System

G. Does the facility have a gas collection/treatment or removal syste	n installed or to be installed in accordance with 40
CFR Part 60, Subpart WWW? Yes No	
 If "no," does the facility need to install a gas collection/treatm 	ent or removal system to limit methane gas to the lower-
explosive limit at the facility boundary or 25 percent of the low	er explosive limit in facility buildings? Yes No
H. Describe the facility's gas collection/treatment or removal system protocol, chain of custody, and test methods to be used, or explain not required.	

15. Facility Administrative Procedures

- A. Describe the recordkeeping system, including the types of records to be kept and the use of records by management to control operations as required. This description will include the annual report. (Refer to Guidance document for details.)
- B. Provide an estimate of the minimum personnel, listed by general job classification, required to operate the facility.
- C. For Type II facilities only, provide the number and levels of certified facility operators determined and certified by the Louisiana Solid Waste Operator Certification and Training Program Board (R.S. 37:3151 et seq. and LAC 46:Part XXIII).

16. Facility Operations and Implementation

- A. Attach a comprehensive operational plan describing the total operation in Attachment 35. The operational plan shall include types of waste and minimum equipment, waste-handling procedures, waste segregation procedures, inclement procedures, contingency procedures, provisions for controlling vectors, salvaging procedures and control, scavenging control, air monitoring procedures, traffic control, support facilities, day-to-day activities, quality-assurance/quality-control plan, and inspections of incoming waste.
- **B.** Attach in Attachment 20 a plan outlining procedures, equipment, and contingency plans for protecting employees and the general public from accidents, fires, explosions, etc., and provisions for emergency response and care, should an accident occur.
- C. Attach an implementation plan in Attachment 40. The implementation plan shall include construction schedules for existing facilities including the beginning and ending time frames and time frames for the installation of all major features; details on phase implementation for any proposed facility to be constructed in phases; and a plan for closing and upgrading existing operating areas if proposing expansion of a facility or construction of a replacement facility. All time frames shall be specified in days, with day 1 as the date of standard permit issuance.

17. Facility Closure

A. Attach a closure plan in Attachment 41. The closure plan shall include the date of final closure, the method to be used and steps necessary for closing the facility, an itemized cost to close the facility by a third party, a description of final cover, the methods and procedures used to install the final cover, an estimate of the largest area of the facility ever requiring a final cover at any time during the active life, an estimate of the maximum inventory of solid waste ever on site over the active life of the facility, a schedule for completing all activities necessary for closure, a sequence of final closure of each unit of the facility, and a copy of the document that will be filed upon closure of the facility with the official parish record keeper.

NOTE: Separate closure requirements for those facilities clean closed in accordance with LAC 33:VII.713.E.3.b.

B. Attach a drawing showing final contours of the facility in Attachment 41.

18. Facility Post-Closure

Attach a post-closure plan in **Attachment 42**. The post-closure plan shall include a discussion of the long-term use of the facility after closure and an itemized cost of conducting post-closure at the facility by third party at a minimum. Additionally, if the facility is not clean closed in accordance with LAC 33:VII.713.E.3.b, the post-closure plan shall include a method for conducting post-closure activities; method for abandonment of monitoring systems, gas collection systems, etc.; measures planned to ensure public safety; and a description of the planned uses of the facility during post-closure.

19. Financial Responsibility

A. Provide the name and address of the polyname		Company	
Suite, Mail Drop, or Division	Street or P.O.	Day	
Suite, Mult Drop, or Division	Street or F.O.	. DOX	
City	State	Zip	Business Phone
B. Provide the name and address of the pe	erson or company who wil	l own the land if	f the standard permit is granted.
Name		Company	
Suite, Mail Drop, or Division	Street or P.O.	Box	
City	State	Zip	Business Phone
	ort (attach in Attachment officers. If this information No nechanism for this facility. nowledgement that financi	43), or if otherv n is available on	wise, the names of the principal owners, line, referencing a weblink is acceptable.
parking and turnaround areas? (Thes groundwater aquifers underlying the a conduit to such aquifers.) • If "yes," attach a demonstration i • If "no," attach a design for surface	rea or to an underlying sa No n <mark>Attachment 44</mark> .	and or other perm	neable stratum that would provide a
B. Attach boring logs for each borehole, follow the LDEQ's and Louisiana Dep Geotechnical Boreholes and Groundw and Standards in LAC 56. Boring logs the intervals that were cored continuous NOTE: The facilities shall comply with the greater than 450 feet, the elevation (NGV) below the lowest point of excavation with extend to 100 feet below grade to character.	cartment of Transportation atter Monitoring Systems I shall include the ground susly, and the depth of first the following boring requires D) of the lowest point of excontinuous sampling; and	and Developme <u>Handbook</u> and La surface elevation encountered grown ements: geotechno acavation; boring	ant (LDOTD)'s Construction of DOTD's Water Well Rules, Regulations, in with respect to NGVD, lithology and bundwater. nical borehole spacing shall be nog depth shall extend to at least 30 feet
C. Attach a plan-view map in Attachment borings, monitoring wells, and piezom			hic contours and locations of all
surface, and any interconnection of aq that have their upper surface within 20 all recognized aquifers that have their	feet below the ground surf uifers, from all available i 00 feet of the ground surfac upper surface within 200 j	ace. The areal enformation shall be. Provide direct feet of the ground	extent, thickness, and depth to the upper be provided for all recognized aquifers ctions and rates of groundwater flow for d surface.
	thologic and boring log de cations and depths of borin and plugged and abandon as faults, slurry walls, grou	nta for all boring ngs, monitoring w ed monitoring w undwater dewate	vells and piezometers; groundwater ering systems; and identification of

- F. Attach in Attachment 49 structure maps and contour maps depicting the areal extent, depths, and thickness of all permeable zones, confining units, and faults to a depth of at least 30 feet below the lowest point of excavation. G. Attach in Attachment 50 potentiometric maps depicting groundwater flow directions using a minimum of three piezometers or monitoring wells in each water-bearing zone, including zones that comprise the uppermost aquifer and uppermost water-bearing permeable zone(s). Piezometers and monitoring wells shall be constructed, and wellcompletion diagrams submitted, in accordance with the applicable well construction standards in LAC 33;VII.805,A.3. H. Attach at least four scaled quarterly potentiometric surface maps for each saturated permeable zone to a depth of at least 30 feet below the lowest point of excavation in Attachment 50. Include the location of the facility, monitoring well and piezometer locations, and corresponding water level elevation measurements. 21. Groundwater Monitoring A. Provide a description and designation of each zone that will be monitored. B. Attach in Attachment 51 a map for each groundwater monitoring zone that depicts the locations of all monitoring wells. including proposed monitoring wells, and each zone's relevant point of compliance. Designate each monitoring well as either background/upgradient or downgradient. An adequate number of monitoring wells shall be located hydraulically upgradient of the facility to yield samples that represent background groundwater quality. Additionally, an adequate number of monitoring wells shall be located hydraulically downgradient from the facility to yield samples that are representative of the groundwater passing the relevant point of compliance. The downgradient wells shall be screened in the same zone as the upgradient wells. Spacing between downgradient wells shall not exceed 800 feet. C. Attach a completed copy of the "Table of Well Construction Details" provided in Appendix A of the Type I-II Surface Impoundment Permit Application Guidance that lists pertinent well construction details for each monitoring well in Attachment 52. Include the coordinates, designation of each well as either upgradient or downgradient, the unit(s) being monitored, elevation (NGVD) of a reference point for measuring water levels, elevation of the ground surface (NGVD), drilled depth (in feet), depth to which the well is cased (in feet), the depth to the top and bottom of the bentonite seal (in feet), the depth to the top and bottom of the screen (in feet), the slot size, the casing size, the type of grout, and as-built diagrams (cross sections) of each well providing the aforementioned well construction details. **D.** Is the facility new? Yes No • If "yes," attach a plan to install monitoring wells in Attachment 53. Monitoring wells shall be sampled quarterly for one year, and groundwater data shall be submitted after each quarterly sampling event and prior to waste • If "no," does the facility have an existing groundwater monitoring system? ☐ Yes ☐ No • If "yes," attach all background data and at least four years of detection monitoring data from monitoring wells in place at the time of the permit application in Attachment 54. • If "no," attach a plan to install monitoring wells in Attachment 53. Monitoring wells shall be sampled quarterly for one year, and groundwater data shall be submitted within 90 days after each quarterly sampling event. E. What phase of groundwater monitoring is the facility currently implementing? Detection Monitoring Assessment Monitoring Corrective Action Attach in Attachment 55 any plan associated with the above phases. F. Attach a Groundwater Sampling and Analysis Plan (SAP) in Attachment 55. The SAP shall include a description of the permeable zones being monitored; the locations of monitoring wells and piezometers; potentiometric maps showing gradient positions of the monitoring wells and piezometers; selection and justification of parameters to be sampled; sample collection, preservation, and shipment procedures; chain of custody control; analytical methods including practical quantitation limits; quality assurance/quality control methods; statistical evaluation methods (if applicable); reporting requirements; and any other pertinent information. NOTE: Please be advised that if the facility is in assessment monitoring or corrective action, statistical evaluation methods should not be provided.
 - 22. Capacity Evaluation

If this application is for a new Type II Surface Impoundment, attach a copy of the capacity evaluation submitted before this application and LDEQ's response in Attachment 56.

23. Additional Information

Attach any additional information needed to support the application. These should be included as additional attachments. Fill in the blanks on the last page of the checklist as needed.

24. Environmental Assessment Statement (EAS or IT Question Responses)

Attach a discussion of the following questions in Attachment 57. Consult the Guidance document for details of what each statement discussion should include.

NOTE: Applications for **renewal** of an existing permit are **not** required to submit answers to these questions, unless said renewal or extension encompasses changes that would constitute a major modification.

Applications for a minor modification of an existing permit are not required to submit answers to these questions.

- **A.** Demonstrate that the potential and real adverse environmental effects of the facility have been avoided to the maximum extent possible.
- **B.** Provide a cost-benefit analysis demonstrating that the social and economic benefits of the facility outweigh the environmental-impact costs.
- **C.** Discuss and describe possible alternative projects that would offer more protection to the environment without unduly curtailing nonenvironmental benefits.
- **D.** Discuss possible alternative sites that would offer more protection to the environment without unduly curtailing nonenvironmental benefits.
- E. Discuss and describe the mitigating measures which would offer more protection to the environment than the facility, as proposed, without unduly curtailing nonenvironmental benefits.

SOLID WASTE PERMIT APPLICATION ATTACHMENT LIST AND CHECKLIST

Page 1 of 2

Instructions: Complete this checklist and submit it with the completed solid waste permit application. Each line should have a "yes," "no," or "N/A" checked. If one of the attachments is marked as "N/A," subsequent attachments should still be labeled with the corresponding attachment letter listed in the first columns. If additional attachments are needed, fill in the title(s) on the last page or the additional page provided in the guidance. **Not all attachments will be used for this application.**

Attachment	Item Description	Yes	No	N/A
1	Proof of publication of notice to submit a solid waste permit application			\boxtimes
2	Copy of lease			\boxtimes
3	Zoning documentation	\boxtimes		
4	Certificate of Registration and/or Certificate of Good Standing from the Secretary of State	\boxtimes		
5	Summary of enforcement actions			\boxtimes
6	Airport or FAA notifications			\boxtimes
7	Master plan to include: scaled map of location of pipelines, power lines, and right-of- ways; figure(s) showing property lines, original contours, buildings, units of the facility, drainage, ditches, and roads; and figure of buffer zone			\boxtimes
8	Traffic flow letter			\boxtimes
9	Aerial photograph of land use within one-mile radius			\boxtimes
10	Description of measures used to isolate surface impoundment operations from all environmentally sensitive sites within 1,000 feet and a list of all known areas within 1,000 feet			\boxtimes
11	Letters from state and federal agencies regarding environmentally sensitive sites			\boxtimes
12	Copy of US Army Corps of Engineers 404 permit or copy of (and proof of submittal) US Army Corps of Engineers 404 permit application			\boxtimes
13	Scaled map showing location of shot holes, seismic lines, and wells within 2,000 feet			\boxtimes
14	Scaled map of all water wells within one mile			\boxtimes
15	Scaled map of all recorded faults within one mile			\boxtimes
16	Geophysical mapping or stratigraphic correlation of boring logs and discussion of measures to be taken to mitigate adverse effects			\boxtimes
17	Demonstration of alternate setback distance			\boxtimes
18	Demonstration of ability to withstand stresses caused by maximum ground motion			\boxtimes
19	Demonstration of integrity of structural components			\boxtimes
20	Copy of Emergency Response Plan and State Fire Marshal's approval of plan and/or Contingency plan (if different than Emergency Response Plan)			\boxtimes
21	Copies of notarized affidavits from landowners less than 200 (or 300) feet from the facility			\boxtimes
22	Description of facility runoff collection system			\boxtimes
23	Map of aquifer recharges areas and description of the measures planned to protect them			\boxtimes
24	Map of 100-year floodplain			\boxtimes
25	Plan-view drawings showing original contours, proposed elevations, proposed final contours, slopes, levees, and other pertinent features			\boxtimes
26	Cross-sectional drawings showing original contours, elevations, drainage, location and type of liner, leachate collections system, and other pertinent features			

Attachment	Item Description	Yes	No	N/A
27	Description of liner system			

ATTACHMENT LIST AND CHECKLIST

Page 2 of 2

Attachment	Item Description	Yes	No	N/A
28	Quality assurance/quality control plan for liners			\boxtimes
29	Description of leachate collection system			\boxtimes
30	Description of levee system			\boxtimes
31	Description of daily fill and cover			\boxtimes
32	Description of interim and interim compacted cover			\boxtimes
33	Calculations for volume of material for daily, interim, and final cover			\boxtimes
34	Slope stability analysis			\boxtimes
35	Comprehensive operation plan			\boxtimes
36	Description of method to handle process waters			\boxtimes
37	Plan for disposal and testing of ash			\boxtimes
38	Description of testing and uses for fuel or compost			\boxtimes
39	Description of marketing procedures			\boxtimes
40	Implementation plan			\boxtimes
41	Closure plan and drawing of final contours (if applicable)	\boxtimes		
42	Post-closure plan			\boxtimes
43	Annual report for public corporation			\boxtimes
44	Demonstration of natural soil permeability or Design for surfacing natural soils			\boxtimes
45	Boring logs for boreholes, monitoring wells, and piezometers			\boxtimes
46	Plan-view map of existing topographic contours and locations of all borings, monitoring wells, and piezometers			\boxtimes
47	Regional geologic cross sections depicting stratigraphy to a depth of at least 200 feet below ground surface			\boxtimes
48	Geologic cross sections along perimeter of the facility and along each transect			\boxtimes
49	Structure and contour maps showing areal extent, depths, and thickness			\boxtimes
50 51 52	Scaled quarterly potentiometric surface maps, groundwater flow direction, and well- completion diagrams			\boxtimes
51	Maps of groundwater monitoring zones			\boxtimes
52	Table of well construction details (use the copy provided in Appendix A of the Type I- II Surface ImpoundmentPermit Application Guidance)			\boxtimes
53	Plan for installation of monitoring wells			\boxtimes
54	Background data and monitoring data from past four years			\boxtimes
55	Detection Monitoring Sampling and Analysis Plan (SAP), Assessment Monitoring SAP, and/or Corrective Action Plan			\boxtimes
56	Capacity Evaluation			\boxtimes
57	Environmental Assessment Statement (IT Questions)			\boxtimes
58				
59				

ATTACHMENT 3 ZONING DOCUMENTATION



June 7, 2021

Providence

RE: 275 Rodemacher Rd Lena, La 71447 Cleco Brame Energy Center Ash Management Area Solid Waste Permit Modification Application Type I Industrial Landfill and Surface Impoundment Providence Project No. 002-278

To Whom It May Concern:

Please be advised that <u>no zoning</u> exists outside of the incorporated limits of Rapides Parish. The above referenced project/location is located in <u>unincorporated</u> Rapides Parish. If you have any questions or need any further assistance, please don't hesitate to call. Thank you for your cooperation.

Sincerely,

Blake Powell GIS/Addressing

ATTACHMENT 4

CERTIFICATE OF REGISTRATION AND/OR CERTIFICATE OF GOOD STANDING FROM THE SECRETARY OF STATE

State of Louisiana Secretary of State



COMMERCIAL DIVISION 225.925.4704

Fax Numbers 225.932.5317 (Admin. Services) 225.932.5314 (Corporations) 225.932.5318 (UCC)

Name

Type

City

Status

CLECO POWER LLC

Limited Liability Company

PINEVILLE

Active

Previous Names

Business:

CLECO POWER LLC

Charter Number:

35014212K

Registration Date:

12/12/2000

Domicile Address

2030 DONAHUE FERRY RD. PINEVILLE, LA 713605226

Mailing Address

C/O LAUREN LABORDE 2030 DONAHUE FERRY RD. PINEVILLE, LA 713605226

status

Status:

Active

Annual Report Status: In Good Standing

File Date:

12/12/2000

Last Report Filed:

12/9/2020

Type:

Limited Liability Company

Registered Agent(s)

Agent:

LAUREN SOILEAU LEBOEUF

Address 1:

2030 DONAHUE FERRY ROAD

City, State, Zip: PINEVILLE, LA 71360

Appointment

8/21/2019

Date: Agent:

LAUREN LABORDE

Address 1:

2030 DONAHUE FERRY ROAD

City, State, Zip:

PINEVILLE, LA 71360

Appointment

Date:

12/9/2020

fficer(s)

Additional Officers: No

Utficer:

CLECO CORPORATE HOLDINGS LLC

Title:

Member

Address 1:

2030 DONAHUE FERRY RD

City, State, Zip: PINEVILLE, LA 71360

Officer: ANDREW CHAPMAN

Title: Manager

dress 1: 2030 DONAHUE FERRY RD

Cicy, State, Zip: PINEVILLE, LA 71360

Officer: RICHARD GALLOT, JR

Title: Manager

Address 1: 2030 DONAHUE FERRY RD City, State, Zip: PINEVILLE, LA 71360

Officer: DAVID GILCHRIST

Title: Manager

Address 1: 2030 DONAHUE FERRY RD City, State, Zip: PINEVILLE, LA 71360

Officer: CHRISTOPHER LESLIE

Title: Manager

Address 1: 2030 DONAHUE FERRY RD City, State, Zip: PINEVILLE, LA 71360

Officer: PEGGY SCOTT
Title: Manager

Address 1: 2030 DONAHUE FERRY RD

City, State, Zip: PINEVILLE, LA 71360

ficer: STEVEN TURNER

:le: Manager

Address 1: 2030 DONAHUE FERRY RD City, State, Zip: PINEVILLE, LA 71360

Officer: BRUCE WAINER

Title: Manager

Address 1: 2030 DONAHUE FERRY RD City, State, Zip: PINEVILLE, LA 71360

Officer: WILLIAM FONTENOT

Title: Manager

Address 1: 2030 DONAHUE FERRY RD City, State, Zip: PINEVILLE, LA 71360

Officer: GERALD HANRAHAN

Title: Manager

Address 1: 2030 DONAHUE FERRY RD City, State, Zip: PINEVILLE, LA 71360

Officer: JON PERRY
Title: Manager

Address 1: 2030 DONAHUE FERRY RD ty, State, Zip: PINEVILLE, LA 71360

Officer: AARON RUBIN
Title: Manager

Address 1: 2030 DONAHUE FERRY RD

City, State, Zip: PINEVILLE, LA 71360

Officer: MELISSA STARK

Title: Manager

dress 1: 225 W. WASHINGTON

STE. 2200

City, State, Zip: CHICAGO, IL 60606

Officer: PARASKEVAS FRONIMOS

Title: Manager

Address 1: 2030 DONAHUE FERRY ROAD

City, State, Zip: PINEVILLE, LA 71360

Mergers (3)

Filed Date	Effective Date:	Туре	Charter#	Chater Name	Role	
12/27/2000	12/27/2000	MERGE	35014212K	CLECO POWER LLC	SURVIVOR	
			14900050D	CLECO UTILITY GROUP INC.	NON-SURVIVOR	
2/25/2010	2/23/2010	MERGE	35014212K	CLECO POWER LLC	SURVIVOR	
			40128423K	POWER BLOCK 1, LLC	NON-SURVIVOR	
3/14/2014	3/15/2014	MERGE	35014212K	CLECO POWER LLC	SURVIVOR	
			41453665K	COUGHLIN TRANSCO LLC	NON-SURVIVOR	

Amendments on File (27)

escription	Date
merger	12/27/2000
Domestic LLC Agent/Domicile Change	2/12/2001
Domestic LLC Agent/Domicile Change	7/6/2001
Appointing, Change, or Resign of Officer	10/12/2001
Appointing, Change, or Resign of Officer	5/13/2002
Appointing, Change, or Resign of Officer	1/8/2003
Appointing, Change, or Resign of Officer	5/15/2003
Domestic LLC Agent/Domicile Change	6/24/2003
Appointing, Change, or Resign of Officer	7/30/2003
Appointing, Change, or Resign of Officer	1/29/2004
Domestic LLC Agent/Domicile Change	6/8/2005
Appointing, Change, or Resign of Officer	2/20/2006
Appointing, Change, or Resign of Officer	5/11/2006
Appointing, Change, or Resign of Officer	5/26/2006
Domestic LLC Agent/Domicile Change	7/31/2006
Appointing, Change, or Resign of Officer	8/4/2006
Domestic LLC Agent/Domicile Change	8/23/2006
pointing, Change, or Resign of Officer	10/24/2006
Appointing, Change, or Resign of Officer	1/30/2007
Merger	2/25/2010
Restated Articles	5/26/2010

Appointing, Change, or Resign of Officer	5/26/2010
Merger	3/14/2014
Restated Articles	4/13/2016
pointing, Change, or Resign of Officer	9/14/2016
Appointing, Change, or Resign of Officer	4/12/2017
Domestic LLC Agent/Domicile Change	8/21/2019

Print

ATTACHMENT 41

CLOSURE PLAN AND DRAWING OF FINAL CONTOURS (IF APPLICABLE)

CLECO POWER LLC

BRAME ENERGY CENTER LENA, RAPIDES PARISH, LOUISIANA



REVISED CLOSURE PLAN

FLY ASH POND

AGENCY INTEREST NO. 2922

D-079-0390/P-0005-R1

SEPTEMBER 2021 REVISED MARCH 2022

Providence Engineering and Environmental Group LLC
1201 Main Street
Baton Rouge, LA 70802
(225) 766-7400
www.providenceeng.com
Providence Project No: 002-286



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1.0 INTRODUCTION

Cleco Power LLC (Cleco) owns and operates an electric utility power station known as the Brame Energy Center (BEC) located near Boyce, Rapides Parish, Louisiana. Cleco received the solid waste permit, Permit P-0005-R1, from the Louisiana Department of Environmental Quality (LDEQ) to construct and operate the Unit 2 Metal Cleaning Waste Pond, the Bottom Ash Pond, and the Fly Ash Pond which are all located within the BEC property.

This Facility Closure Plan (Plan) includes the pre-closure and closure methods and activities that Cleco will implement to close the Fly Ash Pond as shown in **Figure 1**, in accordance with the applicable standards of LAC 33:VII.519.B.6 (general requirements), LAC 33:VII.713.E and F (surface impoundment requirements) and applicable sections of 40 CFR 257.102 (Coal Combustion Residuals (CCR)).

Closure under CCR will be addressed in a separate closure plan submitted to the Environmental Protection Agency. Details of the risk-based closure that address the Louisiana Solid Waste regulations for the Fly Ash Pond are included in the following sections.

2.0 BACKGROUND

The waste surface area of the Fly Ash Pond is approximately 36 acres as noted in P-0005R1, however the overall size of the Fly Ash Pond is approximately 43.3 acres. The Fly Ash Pond received fly ash, abrasives, sodium carbonate (tank bottoms), neutralized waste/fly ash, and spent activated carbon/trona. Excavated sludge from the metal cleaning waste ponds was also placed in the Fly Ash Pond on an as needed basis.

Rainwater that collects in the Fly Ash Pond is pumped to the Bottom Ash Pond. A floating pump is used to pump water from the Fly Ash Pond to the Bottom Ash Pond and a second stationary pump is utilized as a backup in emergency conditions. Under normal operating conditions, the water level is monitored and pumped to the Bottom Ash Pond on an as needed basis.

The types of materials handled within the Fly Ash Pond are non-hazardous, onsite generated materials only. None of the materials disposed are characteristic or listed hazardous wastes as defined by LAC 33:V Subpart I or by federal regulations as confirmed by the process knowledge of each waste.

Cleco has temporarily ceased placement of waste into the Fly Ash Pond, pending USEPA's review of Cleco's Part B (liner equivalency) application allowed by 40 CFR 257.71(d). Cleco is planning a risk-based closure of the surface impoundment, that meets the risk-based requirements of the Louisiana solid waste regulations. Cleco intends to complete the closure activities in 2024. The Fly Ash Pond is considered valuable real estate and Cleco plans to convert the area to a non-CCR landfill as part of the existing landfill onsite.

The estimate of maximum inventory ever on site for the Fly Ash Pond is 530,000 cubic yards.

3.0 PRE-CLOSURE ACTIVITIES

The materials are not classified as characteristic or listed hazardous wastes as defined by LAC 33:V.Subpart 1 or by federal regulations; therefore, an analysis of the materials is not required prior to being hauled to an appropriately permitted disposal facility. Cleco utilizes process knowledge of the waste material source, which is limited to the ash material generated during the operation and maintenance of the utility boilers for Unit 2.

3.1 Notification of Intent to Close

Pursuant to LAC 33:VII.713.E.1, Cleco will notify the LDEQ Office of Environmental Services in writing at least 90 days before closure or intent to close with the following closure information:

- · date of planned closure
- updated Closure Plan
- · closure schedule and
- · estimated cost for closure

The closure process requires notifications to be completed prior and subsequent to closure activities.

3.2 Dewatering

Standing water within the Fly Ash Pond will be used to solidify ash or will be pumped to the Bottom Ash Pond. The ash forms a cement-type material when wet; therefore, excess stormwater will be pumped to the Bottom Ash Pond.

Dewatering will be achieved by using the existing pump system that discharges to the Bottom Ash Pond. Also, trailer mounted pumps located at localized low points of the Fly Ash Pond may be used to facilitate dewatering efforts that will also discharge to the Bottom Ash Pond per the current Louisiana Pollution Discharge Elimination System (LPDES) permit.

3.3 Run-off Diversion System

The run-off diversion system for the Fly Ash Pond will be maintained during closure of the Fly Ash Pond. While the Fly Ash Pond is in the closure process, the run-off and run-on control systems will be maintained and utilized. Storm water and water in contact with the ash will be pumped to the Bottom Ash Pond which is discharged through LPDES Outfall 401.

Cleco will conduct sampling and inspection of the outfall in accordance with requirements of the associated LPDES permit to ensure compliance with water quality standards and to ensure the effective operation of the run-on/run-off diversion system for the facility during the closure period.

4.0 CLOSURE PLAN NARRATIVE DESCRIPTION

Cleco will implement the risk-based closure method for the closure of the Fly Ash Pond. The detailed sequence of events to complete the risk-based closure include the following:

- Mobilization of contractor personnel and equipment. The contractor will mobilize his personnel and equipment to the site to begin closure operations.
- The contractor will remove any additional water remaining in the Fly Ash Pond to allow for removal of the waste material. The dewatering of the Fly Ash Pond will consist of pumps and hoses to pump the water to the Bottom Ash Pond as required by the LPDES permit.
- Once dewatering of the Fly Ash Pond has been completed, mechanical excavation and removal of any remaining waste within the pond will commence. Excavated material will be placed into haul trucks and hauled to an appropriately permitted disposal facility.
- The contractor will continue to mechanically remove waste until visible wastes are not present within the pond. Based on visual observation, decontamination of the clay liner and all areas affected by waste within the pond, the contractor will over excavate approximately six inches of clay liner material on the bottom of the pond and on the side slopes.
- Groundwater monitoring of area surrounding the Fly Ash Pond will continue in its present form as this area is proposed to be incorporated into currently permitted landfill.
- Confirmatory sampling will be conducted of the clay liner to ensure that the
 remaining constituent concentrations are protective of human health and
 the environment. Confirmatory samples will be compared to LDEQ Risk
 Evaluation/Corrective Action Program (RECAP) standards. If residual
 concentrations exceed the screening standards, Cleco may either elect to
 remove additional materials and resample the area or further evaluate the
 area under RECAP Management Options.
- Documentation of closure activities will be completed, and a Final Closure Report will be submitted to LDEQ.
- Closure inspection by LDEQ per LAC 33:VII.407.E.
- All closure activities will be inspected by a Professional Engineer to ensure that closure has proceeded according to plan. Then, certification by a qualified professional engineer in the State of Louisiana that the closure has been completed in accordance with the amended Closure Plan, will be concluded.

 As-built drawings of the risk-based closure will be provided at the time of the Final Closure Report.

5.0 CLOSURE OF FLY ASH POND

Cleco plans to remove the waste and decontaminate the Fly Ash Pond in accordance with recognized and generally accepted good engineering practices.

Per LAC 33:VII.519.B.6.b.iii, the maximum inventory of solid waste ever onsite over the entire life of the facility is approximately 530,000 cubic yards.

5.1 Equipment and Structures Requiring Decontamination

During closure operations, the following pieces of equipment utilized will be decontaminated as follows:

- Earth Moving Equipment steam cleaning with rinse water
- Transporting Hose/Piping/etc. steam cleaning with rinse water
- Haul Trucks steam cleaning with rinse water

Prior to off-site disposal, any mechanical equipment removed during closure will be steam cleaned with rinse water. Residual solids from decontamination will be disposed in an onsite landfill or at an appropriately permitted landfill. The rinse water will be discharged through a permitted outfall.

6.0 SOIL SAMPLING

Soil sampling to support the risk-based closure of the Fly Ash Pond will be conducted in accordance with the following sections and with LDEQ RECAP requirements. Cleco proposes to collect soil samples from several locations within the Fly Ash Pond based on a grid layout. Proposed sampling locations are shown in **Figure 2**.

6.1 Field Preparation Procedures

Prior to sampling, field personnel will obtain clearance for all sampling locations with the appropriate site personnel and Louisiana One Call. Any required health and safety training will also be completed prior to initiation of fieldwork. In addition, coordination with the analytical laboratory regarding sample containers and the minimum required sample quantitation limits will be conducted in preparation for fieldwork.

6.2 Sample Identification and Labeling

Each sample will receive a unique identification number. All sample containers used will be properly labeled immediately upon sample collection. The following information will be included on each sample label:

- · Sample identification number
- · Time and date of sample collection
- · Initials of the sample collector
- Contract laboratory
- Facility name
- Analyses to be performed
- Preservative used (if required)

6.3 Soil Sample Collection

Underlying soil samples will be collected from locations shown on **Figure 2**. Samples will be collected with a hand auger from the 0 to 6-inch depth interval. The impoundment will be divided into one-acre quadrants. Two samples from each quadrant representing the base of the impoundment for each acre will be taken. One sample per acre from the side slopes will be taken from each quadrant. Sampling locations may be relocated based on accessibility and/or other obstructions within the Fly Ash Pond. Sampling locations will be easily accessed from within the bottom of the pond after all visible waste materials and approximately six inches of clay liner from the base and side slopes has been removed.

Soil samples will be collected from a dry pond bottom and along the side slopes. Discreet samples collected will be placed in a stainless-steel mixing bowl directly from the ponar or drive tube sampler.

All soil samples collected from the grid sampling locations will be analyzed for the following parameters based on process and site knowledge and the groundwater semiannual monitoring requirements for the Fly Ash and Bottom Ash Ponds:

- pH
- Sulfate
- Arsenic
- Cadmium
- Copper
- Nickel
- Vanadium
- Zinc

Analytical testing methods are specified in Section 7.0.

6.4 Field Decontamination Procedures

Field decontamination procedures will be used to remove contaminants to the extent practicable from sampling equipment to minimize crosscontamination. Decontamination will be performed on all non-disposable sampling equipment before each individual sample collection. Sampling equipment will be decontaminated between sampling locations, as required. Sampling equipment will be cleaned with a phosphate-free detergent and scrub brushes to remove debris and contaminants. The equipment will then be triple-rinsed using lab-quality deionized water and allowed to air dry prior to re-use.

6.4.1 Sample Containers and Handling

6.4.1.1 Sample Containers

The contract laboratory will provide all containers for sample collection and/or transfer. All containers will be prepared in accordance with good laboratory practices and made chemically clean pursuant to sample collection and container requirements of the approved analytical procedures for the respective analyses to be conducted. Containers not provided by the laboratory will not be substituted in the field. Any required preservatives will be added to the containers by the contract laboratory prior to use in the field. Field personnel will be responsible for ensuring the correct preservative has been used. When filling a container, care will be taken to avoid loss of preservatives and injury to personnel due to contact with the preservatives. Containers will be filled completely to minimize or eliminate headspace as appropriate.

6.4.1.2 Sample Handling

Powder-free latex or nitrile gloves will be worn during the collection of each sample. Care will be taken to ensure that samples are not inadvertently contaminated by contact with anything other than the designated containers. Immediately upon collection, all sample containers will be properly labeled and then stored in an ice chest containing a sufficient amount of wet ice to maintain a maximum temperature of 4°C.

6.4.1.3 Chain-of-Custody Procedures

Field sampling personnel will be responsible for the samples throughout the sampling period. All samples will be stored in ice chests (on wet ice at a temperature not to exceed 4°C) for transportation to the contract laboratory. Appropriate chain-of-custody forms detailing the analytical requirements will be completed by the designated sampling personnel and will accompany the samples to the laboratory.

When transferring possession of samples, the transferor and the recipient will sign and record the date and time on the chain-of-custody form. A standardized chain-of-custody form will be

used that is designed to prompt the user(s) to complete all required sample collection and transport information.

7.0 ANALYTICAL TESTING - CONFIRMATORY SOIL SAMPLES

The soil samples will be analyzed for the current groundwater detection monitoring parameters for the Fly Ash and Bottom Ash Ponds. Specific conductance and alkalinity, which are included in the current groundwater monitoring program, will not be among the parameters used for closure verification. The analysis will be performed by a subcontracted analytical laboratory that is certified through the Louisiana Environmental Laboratory Accreditation Program (LELAP). Analytical parameters and testing methods will include the following, as applicable:

- pH
- Sulfate using EPA SW-846 Method 9056
- Arsenic using EPA SW-846 Method 6020
- Cadmium using EPA SW-846 Method 6020
- Copper using EPA SW-846 Method 6020
- Nickel using EPA SW-846 Method 6020
- Vanadium using EPA SW-846 Method 6020
- Zinc using EPA SW-846 Method 6020

All analyses will be performed in accordance with the most recently applicable approved method for each respective parameter for which testing is required.

8.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) MEASURES

Data collection and laboratory analyses will be conducted in a manner consistent with RECAP (LDEQ, 2003) requirements. The specific QA/QC procedures to be followed in the field and in the laboratory are described below.

8.1 Field QA/QC

Field QA/QC procedures will include the collection of sample blanks and analysis for the same constituents for which the actual sampled media are being tested. The determination of the types, number, and frequency of QA/QC sample collection will be based upon the following considerations, as applicable:

- One field duplicate sample per 20 field samples per medium sampled
- One matrix spike/matrix spike duplicate (MS/MSD) sample per 20 field samples per medium sampled
- One rinsate blank per 20 samples
- · One field blank per day of sampling
- One trip blank per cooler containing volatile samples (i.e., VOCs, TPH-GRO, and VPH)

8.2 Laboratory QA/QC

Standard analytical laboratory QA/QC procedures and the analytical methods specified in Section 7.0 will be followed. Documentation for the following will be requested from the laboratory at the time the samples are submitted for analysis:

- Sample documentation
- Initial and continuing calibration data
- · Documentation of detection limits
- · Analyte identification and quantification
- Quality control blanks
- · Matrix spike recovery results
- Performance evaluation data set
- Analytical error determination
- Total measurement error determination

8.3 Sample Documentation

Sample collection, field preparation, preservation, and shipment will be documented. This will include field documentation, a sample documentation log, sample location documentation, soil boring logs, equipment calibration logs, sample labeling, and proper chain-of-custody documentation.

9.0 GROUNDWATER SAMPLING BENEATH THE FLY ASH POND

Groundwater sampling to support the risk-based closure of the Fly Ash Pond will be conducted in accordance with the following sections and with LDEQ RECAP requirements. Groundwater samples will be collected from three temporary piezometer locations installed in the floor of the Fly Ash Pond based on a grid layout. Proposed sampling locations are shown in **Figure 3**.

The underlying groundwater will be sampled after all visible waste materials and approximately six inches of clay liner from the base and side slopes have been removed from the Fly Ash Pond.

Groundwater sample collection methods and procedures are further described below.

9.1 Field Preparation Procedures

Prior to sampling, field personnel will obtain clearance for all sampling locations with the appropriate site personnel and Louisiana One Call. Any required health and safety training will also be completed prior to initiation of fieldwork. In addition, coordination with the analytical laboratory regarding sample containers and the minimum required sample quantitation limits will be conducted in preparation for fieldwork.

9.2 Sample Identification and Labeling

Each sample will receive a unique identification number. All sample containers used will be properly labeled immediately upon sample collection. The following information will be included on each sample label:

- · Sample identification number
- Time and date of sample collection
- Initials of the sample collector
- Contract laboratory
- Facility name
- · Analyses to be performed
- Preservative used (if required)

9.3 Groundwater Sample Collection

Underlying groundwater samples will be collected from three temporary piezometers that will be installed at locations shown on **Figure 3**. Sampling locations may be relocated based on accessibility and/or other obstructions within the Fly Ash Pond. Sampling locations should be easily accessed from within the bottom of the pond after all visible waste materials and approximately 6 inches of clay liner from the base and side slopes has been removed.

All groundwater samples collected from the temporary piezometer sampling locations will be analyzed for the constituents included in Section 7.0.

9.4 Field Decontamination Procedures

Field decontamination procedures will be used to remove contaminants to the extent practicable from sampling equipment to minimize cross-contamination. Decontamination will be performed on all non-disposable sampling equipment before each individual sample collection. Sampling equipment will be decontaminated between sampling locations, as required. Sampling equipment will be cleaned with a phosphate-free detergent and scrub brushes to remove debris and contaminants. The equipment will then be triple-rinsed using lab-quality deionized water and allowed to air dry prior to re-use.

9.4.1 Sample Containers and Handling

9.4.1.1 Sample Containers

The contract laboratory will provide all containers for sample collection and/or transfer. All containers will be prepared in accordance with good laboratory practices and made chemically clean pursuant to sample collection and container requirements of

the approved analytical procedures for the respective analyses to be conducted. Containers not provided by the laboratory will not be substituted in the field. Any required preservatives will be added to the containers by the contract laboratory prior to use in the field. Field personnel will be responsible for ensuring the correct preservative has been used. When filling a container, care will be taken to avoid loss of preservatives and injury to personnel due to contact with the preservatives. Containers will be filled completely to minimize or eliminate headspace as appropriate.

9.4.1.2 Sample Handling

Powder-free latex or nitrile gloves will be worn during the collection of each sample. Care will be taken to ensure that samples are not inadvertently contaminated by contact with anything other than the designated containers. Immediately upon collection, all sample containers will be properly labeled and then stored in an ice chest containing a sufficient amount of wet ice to maintain a maximum temperature of 4°C.

9.4.1.3 Chain-of-Custody Procedures

Field sampling personnel will be responsible for the samples throughout the sampling period. All samples will be stored in ice chests (on wet ice at a temperature not to exceed 4°C) for transportation to the contract laboratory. Appropriate chain-of-custody forms detailing the analytical requirements will be completed by the designated sampling personnel and will accompany the samples to the laboratory.

When transferring possession of samples, the transferor and the recipient will sign and record the date and time on the chain-of-custody form. A standardized chain-of-custody form will be used that is designed to prompt the user(s) to complete all required sample collection and transport information.

10.0 ANALYTICAL TESTING – GROUNDWATER SAMPLES

Groundwater samples will be analyzed for the current groundwater detection monitoring parameters for the Fly Ash and Bottom Ash Ponds. Specific conductance and alkalinity, which are included in the current groundwater monitoring program, will not be among the parameters used for closure verification. The analysis will be performed by a subcontracted analytical laboratory that is certified through the Louisiana Environmental Laboratory Accreditation Program (LELAP). Analytical parameters and testing methods will include the following, as applicable:

- pH
- Sulfate using EPA SW-846 Method 300.0
- Arsenic using EPA SW-846 Method 6020
- Cadmium using EPA SW-846 Method 6020
- Copper using EPA SW-846 Method 6020
- Nickel using EPA SW-846 Method 6020
- Vanadium using EPA SW-846 Method 6020
- Zinc using EPA SW-846 Method 6020

All analyses will be performed in accordance with the applicable approved method for each respective parameter for which testing is required.

11.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) MEASURES

Data collection and laboratory analyses will be conducted in a manner consistent with RECAP (LDEQ, 2003) requirements. The specific QA/QC procedures to be followed in the field and in the laboratory are described below.

11.1 Field QA/QC

Field QA/QC procedures will include the collection of sample blanks and analysis for the same constituents for which the actual sampled media are being tested. The determination of the types, number, and frequency of QA/QC sample collection will be based upon the following considerations, as applicable:

- One field duplicate sample per 20 field samples per medium sampled
- One matrix spike/matrix spike duplicate (MS/MSD) sample per 20 field samples per medium sampled
- · One rinsate blank per 20 samples
- · One field blank per day of sampling
- One trip blank per cooler containing volatile samples (i.e., VOCs, TPH-GRO, and VPH)

11.1.1 Laboratory QA/QC

Standard analytical laboratory QA/QC procedures and the analytical methods specified in Section 7.0 will be followed. Documentation for the following will be requested from the laboratory at the time the samples are submitted for analysis:

- Sample documentation
- Initial and continuing calibration data
- · Documentation of detection limits
- Analyte identification and quantification
- Quality control blanks

- Matrix spike recovery results
- Performance evaluation data set
- Analytical error determination
- Total measurement error determination

11.1.2 Sample Documentation

Sample collection, field preparation, preservation, and shipment will be documented. This will include field documentation, a sample documentation log, sample location documentation, soil boring logs, equipment calibration logs, sample labeling, and proper chain-ofcustody documentation.

12.0 DATA EVALUATION AND REPORTING

Upon receipt of analytical results, detected concentrations of COCs in soils and groundwater will be compared to applicable RECAP standards to determine if impacts are present prior to removal and disposition as part of risk-based closure of the Fly Ash Pond.

A Final Closure Report will be completed to detail sampling and testing methods used, comparison of analytical results to applicable RECAP standards and closure activities will be prepared and submitted to LDEQ.

13.0 SCHEDULE

Closure of the existing Fly Ash Pond is expected to take approximately 3 years to complete. The table below provides a listing of major milestones necessary to close the Fly Ash Pond, with an estimated duration and an estimated year of completion. Cleco estimates that closure will be completed in 2024.

Task Description	Estimated Duration	Estimated Year of Completion ¹
Place Amended Closure Plan in Facility Operating Record (FOR).	1 Day	2021/2022
Send Amended Closure Plan to LDEQ for Review	1 Month	2021/2022
LDEQ Review and Approval of Amended Closure Plan	6 Months	2021/2022
Dewatering of the Fly Ash Pond and In Situ waste material	3 Months	2022
Removal of the waste and decontamination of the In Situ Clay Liner by over excavation of approximately 6 inches based on visual observation of waste material.	18 Months	2023
Analytical testing to verify risk-based closure	3 Months	2024
Inspection by LDEQ	1 Month	2024
Certification report and completion of closure by Professional Engineer licensed in the State of Louisiana	1 Month	2024
Approval by LDEQ	1 Month	2024

¹Timeframes noted in schedule may change based on weather conditions or other external factors.

FIGURE 1
SITE MAP

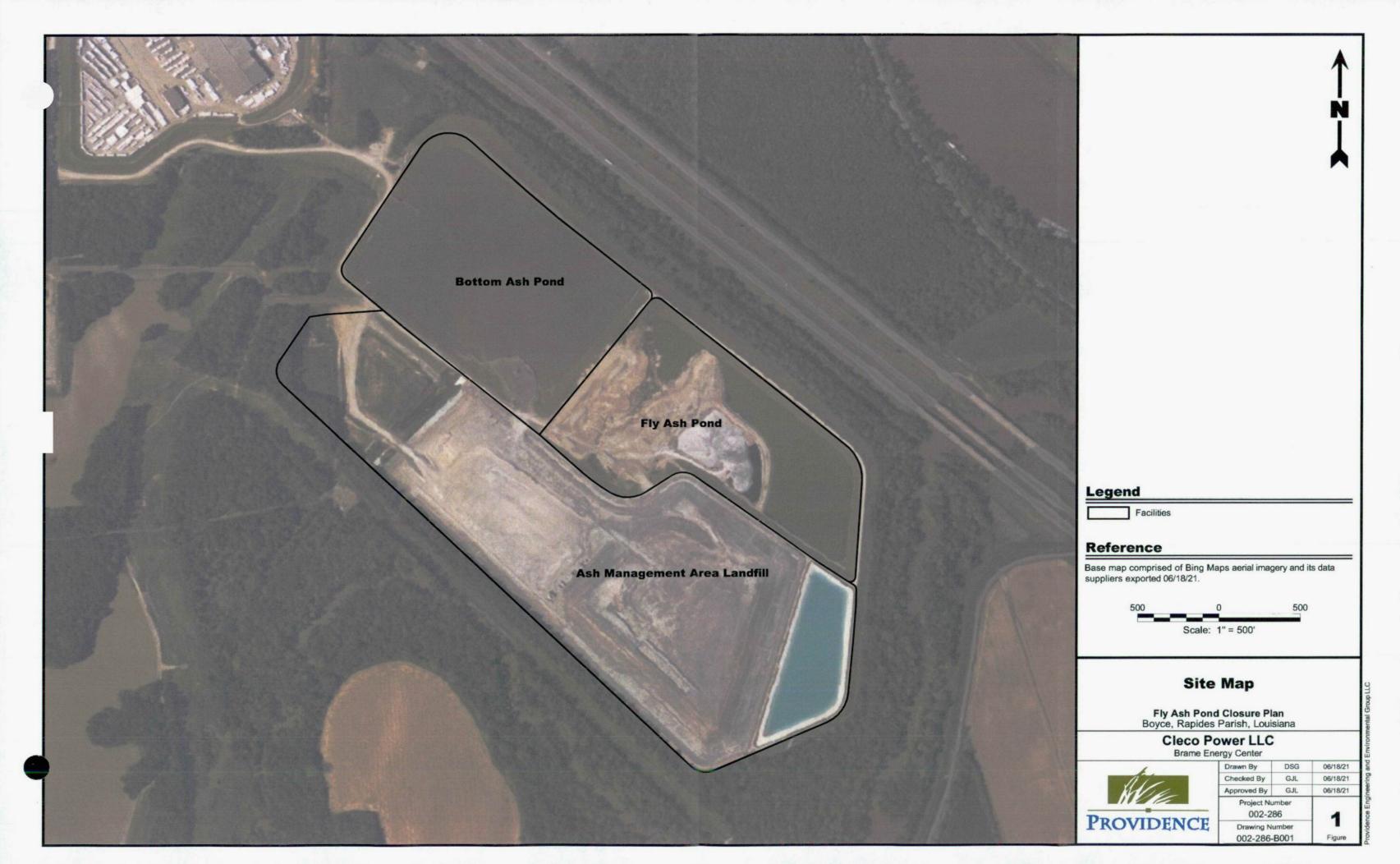


FIGURE 2 SOIL SAMPLING LOCATIONS



FIGURE 3 GROUNDWATER SAMPLING LOCATIONS

