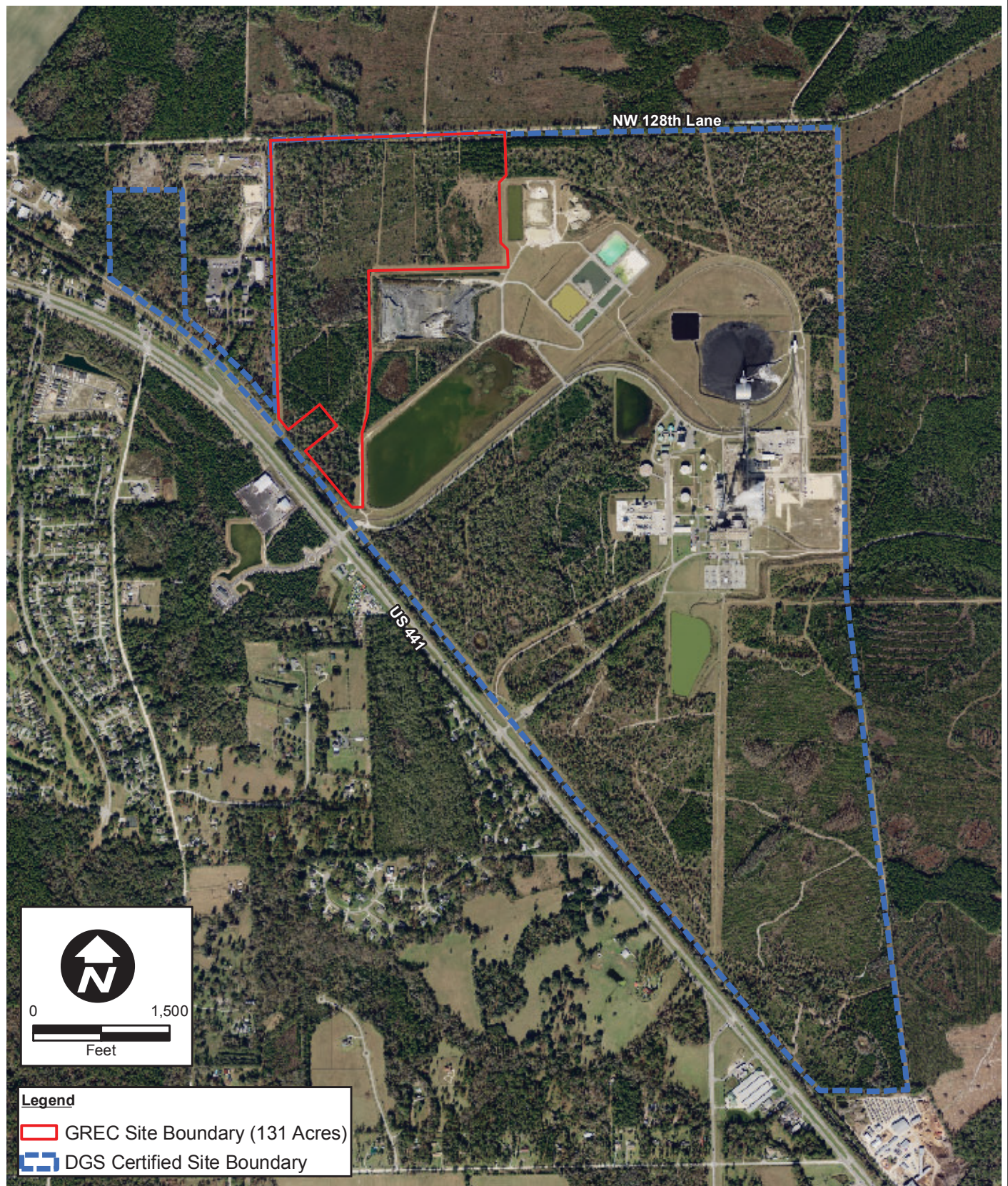


ATTACHMENTS

ATTACHMENT A: Maps

(to be attached - referenced in Section A. Condition I. Scope)



Sources: GRU, 2009; FDOT, 2008; GENESIS, 2009; ECT, 2009.

ATTACHMENTS

ATTACHMENT B: Surface Water Management System Operation and Maintenance Requirements

ATTACHMENT B: Surface Water Management System Operation and Maintenance Requirements

1. In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all stormwater management systems, dams, impoundments, reservoirs, appurtenant works, or works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity. The operation and maintenance shall be in accordance with the designs, plans, calculations, and other specifications that are submitted with any amendment or modification and approved by the Department.
2. A registered professional must perform inspections annually after conversion of the project to the operation and maintenance phase to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of the stormwater management system or other surface water management systems that may endanger public health, safety, or welfare, or the water resources, and to insure that systems are functioning as designed and approved. Within 30 days of the inspection, a report shall be submitted electronically or in writing to the Department using Form 62-330.311(1), "Operation and Maintenance Inspection Certification".
3. If deficiencies are found, the Deerhaven Generating Station will be responsible for correcting the deficiencies so that the project is returned to the operational functions as designed and approved. The corrections must be done a timely manner to prevent compromises to flood protection and water quality.
4. If the operational maintenance and corrective measures are insufficient to enable the systems to meet the performance standards of this chapter, the Deerhaven Generating Station must either replace the systems or construct an alternative design.
5. The Deerhaven Generating Station shall provide for periodic inspections in addition to the annual inspections, especially after heavy rain. It must maintain a record of each inspection, including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and approved, and make such record available upon request of the Department. Within 30 days of any failure of any system or deviation from the permit, a report shall be submitted electronically or in writing to the Department using Form 62-330.311(1), "Operation and Maintenance Inspection Certification," describing the remedial actions taken to resolve the failure or deviation.
6. The Deerhaven Generating Station shall immediately notify the Department by telephone whenever a serious problem occurs at this facility. Notification shall be made to the Northeast District Office at (904) 256-1700. Within 7 days of telephone notification, a report shall be submitted electronically or in writing to the Department using Form 62-330.311(1), "Operation and Maintenance Inspection Certification," describing the extent of the problem, its cause, the remedial actions taken to resolve the problem.
7. The following operational maintenance activities shall be performed on approved systems on a regular basis or as needed:
 - (1) Removal of trash and debris from the surface water management systems,

(2) Inspection of culverts, culvert risers, pipes and screwgates for damage, blockage, excessive leakage or deterioration, if applicable,

(3) Inspection of stormwater berms, if applicable,

(4) Inspection of pipes for evidence of lateral seepage,

(5) Inspection of flapgates for excessive backflow or deterioration, if applicable,

(6) Removal of sediments when the storage volume or conveyance capacity of the surface water management system is below design levels,

(7) Stabilization and restoration of eroded areas,

(8) Inspection of pump stations for structural integrity and leakage of fuel or oil to the ground or surface water, if applicable, and

(9) Inspection of monitoring equipment, including pump hour meters and staff gauges, for damage and operational status, if applicable.

8. In addition to the practices listed above, specific operational maintenance activities are required, if applicable, depending on the type of approved system, as follows:

(1) Overland flow systems shall include provisions for:

a. Mowing and removal of clippings, and

b. Maintenance of spreader swales and overland flow areas to prevent channelization.

(2) Spray irrigation systems for reuse/disposal shall include provisions for:

a. Inspection of the dispersal system, including the sprayheads or perforated pipe for damage or clogging, and

b. Maintenance of the sprayfield to prevent channelization.

(3) Treatment systems which incorporate isolated wetlands shall include provisions for:

a. Stabilization and restoration of channelized areas, and

b. Removal of sediments which interfere with the function of the wetland or treatment system.

ATTACHMENTS

ATTACHMENT C: Mitigation Plans (if applicable)

Attachment C - Mitigation Plan

Gainesville Regional Authority (GRU) certified the Deerhaven Generating Station and associated facilities through the Florida Electric Power Plant Siting Act. The certification PA 74-04 was approved by the Governor and Cabinet on May 16, 1978.

History of wetland impacts and mitigation:

Project	Impacts	Mitigation	Status	Project Completed
Fuel spill clean up ERP-CE site 266484	June 4, 2006, approx. 25,000 gal of #6 fuel oil spill into stormwater collection system, then to tributary of Turkey Creek and across forested wetlands.	Contaminated soils were removed and replacement wetland species planted. *See full report at Oculus link following table	Consent Order closed 2010	Yes

*[https://depeds.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=23.67132.1\]&\[profile=Disc](https://depeds.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=23.67132.1]&[profile=Disc)
[overy Compliance](#)]

ATTACHMENTS

ATTACHMENT D: Groundwater Monitoring Requirements

ATTACHMENT D

GRU-Deerhaven Generating Station
Site Certification PA74-04

Florida Department of Environmental Protection

Industrial Wastewater Groundwater Monitoring Requirements for Site Certification PA74-04, in accordance with Section B, Condition I.B.

1. Groundwater monitoring is required around all Industrial Wastewater (IW) sites (i.e.: coal pile storage area, brine salt disposal site, lime sludge basins, process water ponds, solid waste sites, and all associated runoff ponds). The Licensee shall install and maintain a groundwater monitoring well network for the above sites to monitor the water quality of the surficial aquifer both horizontally and vertically, in accordance with Chapters 62-520 and 62-660, F.A.C.
2. During the period of operation authorized by the Site Certification, the Licensee shall conduct groundwater monitoring at the monitor wells identified in condition 4 below, in accordance with the conditions of certification, the approved groundwater monitoring plan, and Rules 62-520.600 and 62-660, F.A.C.
3. The Licensee shall include Site Certification # PA74-04 and IW Facility ID FLA017161 on all IW correspondence, including the Groundwater Monitoring Reports, in order to allow for specific-cross filing with DEP databases. [62-17-191, F.A.C.]
4. The following monitor wells at the Industrial Wastewater sites shall be sampled for the parameters and frequency in condition 5 below:

Monitoring Well ID	Alternate Well Name and/or Location	Latitude (N)	Longitude (W)	Depth (Feet)	Aquifer Monitored	New or Existing
MWD-1-6	R1T6 / Due east of Coal Pile Storage Area, along eastern property line.	29° 45' 49"	82° 23' 02"	20	Surficial	Existing
MWB-2-1	R2T1 / North of Coal Pile Storage, near NE property corner.	29° 46' 13"	82° 23' 12"	13	Surficial	Existing
MWI-3-7	R3T7 / SW of Coal Pile Storage Area, 250' NE of Pond #3.	29° 45' 45"	82° 23' 22"	10	Surficial	Existing
MWI-4-5*	R4T5B / SE side of the Ash Ponds.	29° 45' 52"	82° 23' 33"	12	Surficial	Existing
MWD-6-1	R6T1B / NW of Secure Landfill, along northern property line.	29° 46' 13"	82° 23' 49"	15	Surficial	Existing
MWI-6-4	R6T4B / South side of the Secure Landfill.	29° 46' 01"	82° 23' 40"	13	Surficial	Existing
MWI-6-8	R6T8B / 350' east of Pond #1, SW of Coal Pile Storage Area.	29° 45' 39"	82° 23' 43"	12	Surficial	Existing
MWD-6-12	R6T12 / Due west of Pond #4, SW of Coal Pile Storage Area.	29° 45' 18"	82° 23' 43"	6	Surficial	Existing
MWC-8-10*	R8T10 / SW of Coal Pile Storage Area, along SR 441.	29° 45' 24"	82° 23' 55"	11	Surficial	Existing
MWI-9-5	R9T5B / NW corner of Ash Landfill.	29° 45' 57"	82° 24' 00"	12	Surficial	Existing
MWC-10-8	R10T8 / SW of Pond #1, SSW of Ash Landfill, along SR-441.	29° 45' 36"	82° 24' 06"	11	Surficial	Existing
MWC-11-4	R11T4B / West of Ash Landfill, along western property line.	29° 45' 58"	82° 24' 12"	13	Surficial	Existing
MWC-DEEP	DEEP-1 / One of four plant supply wells	Variable with operation of four supply wells.		~450	Floridan	Existing

MWB = Background; MWI = Intermediate; MWC = Compliance; MWD = Site Boundary

*See condition 6 for additional monitoring requirements on these two wells.

ATTACHMENT D

GRU-Deerhaven Generating Station
Site Certification PA74-04

Florida Department of Environmental Protection

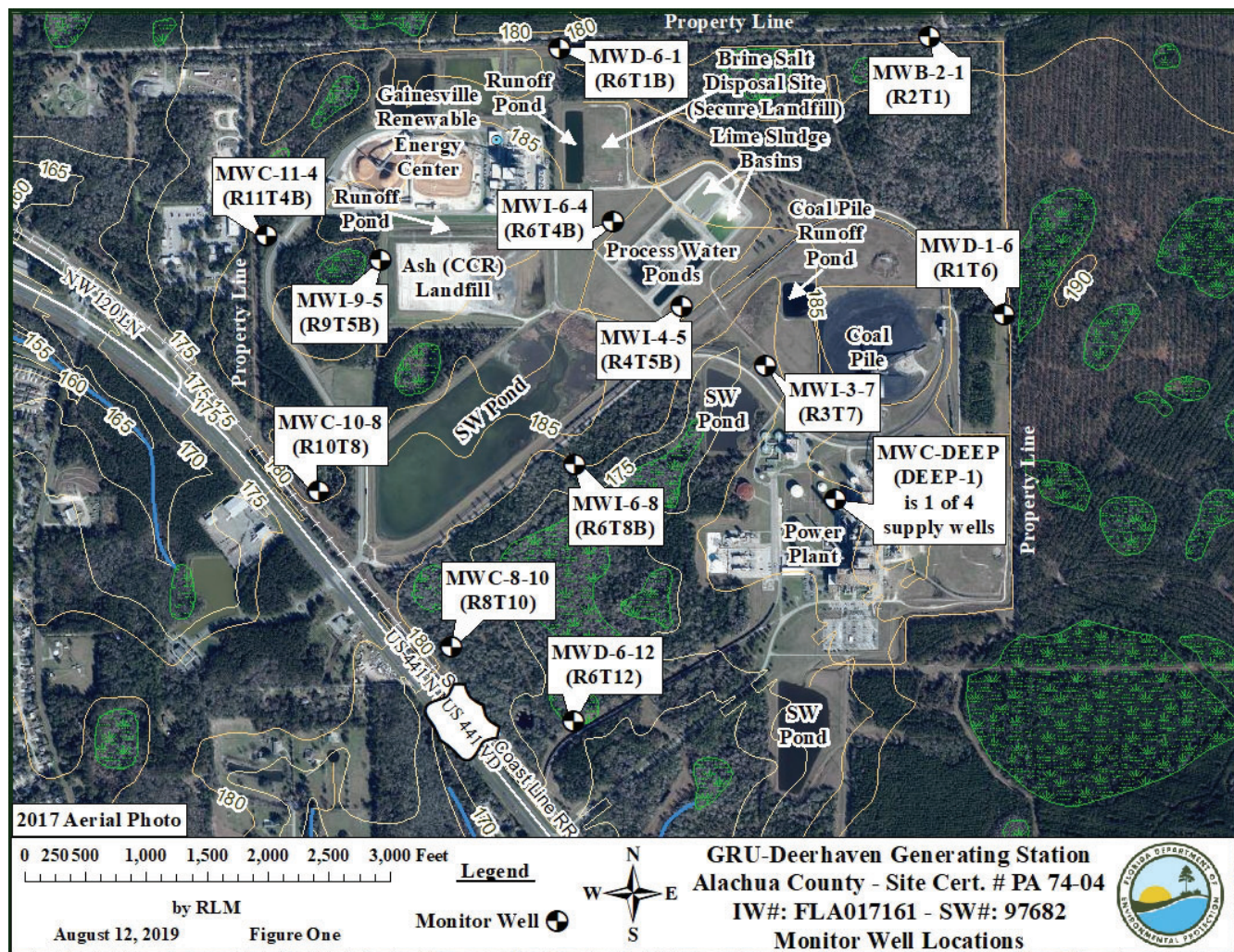


Figure 1. Groundwater Monitor Well Locations

5. The following parameters in the table below shall be sampled and analyzed at the stated frequency for all monitor wells listed in condition 4 above.

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Aluminum, Total Recoverable	Report	ug/L	Grab	Quarterly
Arsenic, Total Recoverable	10	ug/L	Grab	Quarterly
Barium, Total Recoverable	2000	ug/L	Grab	Quarterly
Beryllium, Total Recoverable	4	ug/L	Grab	Quarterly
Cadmium, Total Recoverable	5	ug/L	Grab	Quarterly
Calcium, Total Recoverable	Report	mg/L	Grab	Quarterly
Chloride	Report	mg/L	Grab	Quarterly
Chromium, Total Recoverable	100	ug/L	Grab	Quarterly
Cobalt, Total Recoverable	Report	ug/L	Grab	Quarterly
Color	Report	PCU	Grab	Quarterly
Copper, Total Recoverable	Report	ug/L	Grab	Quarterly
Dissolved Oxygen	Report	mg/L	In-situ	Quarterly

ATTACHMENT D

GRU-Deerhaven Generating Station
Site Certification PA74-04

Florida Department of Environmental Protection

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Gross Alpha	15	pCi/L	Grab	Quarterly
Iron, Total Recoverable	Report	ug/L	Grab	Quarterly
Lead, Total Recoverable	15	ug/L	Grab	Quarterly
Magnesium, Total Recoverable	Report	mg/L	Grab	Quarterly
Manganese, Total Recoverable	Report	ug/L	Grab	Quarterly
Mercury, Total Recoverable	2	ug/L	Grab	Quarterly
Molybdenum, Total Recoverable	Report	ug/L	Grab	Quarterly
Nickel, Total Recoverable	100	ug/L	Grab	Quarterly
Nitrite+Nitrate (as N)	10	mg/L	Grab	Quarterly
pH (field)	Report	SU	In-situ	Quarterly
Potassium, Total	Report	mg/L	Grab	Quarterly
Redox Potential (ORP)	Report	mV	Grab	Quarterly
Selenium, Total Recoverable	50	ug/L	Grab	Quarterly
Silver, Total Recoverable	Report	ug/L	Grab	Quarterly
Sodium	160	mg/L	Grab	Quarterly
Specific Conductance (field)	Report	umhos/cm	In-situ	Quarterly
Strontium, Total Recoverable	Report	ug/L	Grab	Quarterly
Sulfate	Report	mg/L	Grab	Quarterly
Temperature	Report	°C	In-situ	Quarterly
Total Dissolved Solids	Report	mg/L	Grab	Quarterly
Total Organic Carbon	Report	mg/L	Grab	Quarterly
Total Suspended Solids	Report	mg/L	Grab	Quarterly
Turbidity	Report	NTU	In-situ	Quarterly
Vanadium, Total Recoverable	Report	ug/L	Grab	Quarterly
Water Level (NGVD)	Report	Feet	In-situ	Quarterly
Zinc, Total Recoverable	Report	ug/L	Grab	Quarterly

[62-520.600(11)(b) and 62-520.310(5), F.A.C.]

Quarterly = Four Times Per Year

- By June 1, 2020, and once every five years thereafter, the Licensee shall conduct an expanded sampling of existing monitor wells **MWI-4-5 (R4T5B)** and **MWC-8-10 (R8T10)**, for the primary and secondary drinking water parameters included in Chapter 62-550, Tables 1, 4, and 6, (excluding asbestos and odor), and including Gross Alpha (excluding Radon and Uranium), Radium 226+228, and Turbidity. All analytical results from this expanded sampling shall be submitted to the FDEP-NED Groundwater Section within 90 days following the sampling event. *Note that a laboratory report will suffice for this submittal with no need for transcription to other reporting format.* [62-520.600(5)(b), F.A.C.]
- Except for the expanded monitor well results in condition 6, the monitor well results shall be submitted electronically in accordance with the following requirements:

For the sampling results from all monitor wells in condition 4, the Licensee shall use the electronic DMR system(s) approved by the Department (EzDMR), and the Licensee shall electronically submit the completed DMR forms in accordance with the following schedule using the DEP Business Portal at <http://www.fldepportal.com/go/>, unless the Licensee has a waiver from the Department in accordance with 40 CFR 127.15. Data submitted in electronic format is equivalent to data submitted on signed and certified

ATTACHMENT D

GRU-Deerhaven Generating Station
Site Certification PA74-04

Florida Department of Environmental Protection

paper DMR forms. A facility specific version of the DEP DMR Form is included as Appendix 1 at the bottom of Attachment D.

MONITORING PERIOD	FREQUENCY	SUBMIT BY
January 1 – March 30	Quarterly	April 28
April 1 – June 30	Quarterly	July 28
July 1 – September 30	Quarterly	October 28
October 1 – December 31	Quarterly	January 28

Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following each monitoring period. Any hard copy DMRs shall be submitted on Part D of DEP Form 62-620.910(10) to the addresses listed condition 8 below.

[62-17-191, 62-520.600(11)(b) and 62-620.610(18), F.A.C.]

8. All correspondence, reports, and other information, excluding the DMRs, shall be appropriately submitted to or reported to the Florida Department of Environmental Protection at the addresses and sections specified below, or emailed, as appropriate, to the Groundwater Section at DEP_NED@floridadep.gov and the Siting Coordination Office at SCO@floridadep.gov.

Florida Department of Environmental Protection
Northeast District Office, Groundwater Section
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256
Phone (904) 256-1700

Florida Department of Environmental Protection
Solid Waste Section, MS 4565
2600 Blair Stone Road
Tallahassee, Florida, 32399-2400

[62-17-191 and 62-620.305, F.A.C.]

9. All reports and other information shall be signed, in accordance with the requirements of Rule 62-620.305 and 62-701.510, F.A.C.
10. Groundwater samples shall be collected in accordance with DEP's Standard Operating Procedures Manual for Field Sampling, and shall conform to the applicable Quality Assurance/Quality Control requirements of Chapter 62-160, F.A.C.
11. The Licensee shall ensure that all monitor well samples are analyzed by a certified laboratory that meets the requirements of Chapter 62-160, F.A.C. Minimum detection limits shall be at or below the groundwater standards and/or criteria.
12. The Licensee shall give at least 72-hours-notice to the DEP-NED Groundwater Section, prior to the installation of any new monitoring wells detailed in the conditions. *[62-520.600(6)(h), F.A.C.]*
13. Prior to construction of new monitor wells, a soil boring shall be made at each well location in order to properly determine the well depth and screen interval. *[62-520.600(6)(g), F.A.C.]*
14. All monitor wells shall be constructed and developed in accordance with the DEP's guidelines referenced in Chapter 62-520, F.A.C. and installed by a Florida licensed water well contractor. *[62-520.600(3), F.A.C.]*

ATTACHMENT D

GRU-Deerhaven Generating Station
Site Certification PA74-04

Florida Department of Environmental Protection

15. Within 30 days after installation of a monitoring well, the Licensee shall submit to the DEP-NED Groundwater Section detailed information on the well's location and construction on DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. *[62-17-191, 62-520.600(6)(j), and 62-520.900(3), F.A.C.]*
16. All piezometers and monitor wells not part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless future use is intended. *[62-532.500(5), F.A.C.]*
17. If the DEP-NED determines that the monitoring results for the parameters listed in the approved GWMP indicate an abnormally increasing trend in any of the compliance wells, or intermediate wells, the Licensee shall meet with the NED to discuss and formulate a plan for additional assessment and monitoring, if necessary, in accordance with Rule 62-520.470, F.A.C.
18. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the Licensee shall notify the DEP-NED Groundwater Section and Compliance Section within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the DEP-NED Groundwater Section, before installation. *[62-520.600(6)(l), F.A.C.]*
19. If the concentration of a monitoring constituent in the natural background groundwater quality is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. *[62-520.420(2), F.A.C.]*
20. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. *[62-520.600(11)(c), F.A.C.]*
21. Groundwater monitor wells shall be purged prior to sampling to obtain representative samples. *[62-160.210, F.A.C.]*
22. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the DEP-NED Groundwater Section as being more representative of groundwater conditions. *[62-520.310(5), F.A.C.]*
23. The groundwater minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge, as required in Rule 62-520.420(4), F.A.C.
24. Zone of Discharge.

For the industrial wastewater (IW) sites, all groundwater quality criteria specified in Chapter 62-520, F.A.C. shall be met at the edge of the zone of discharge (ZOD). The ZOD for the existing IW sites shall extend horizontally from the discharge sites to the property boundaries and vertically to the base of the surficial aquifer, in accordance with Rules 62-520.200(27), and 62-520.465, F.A.C. For any new, or modified IW site, the ZOD shall not exceed 100 feet from the edge of the IW site, or to the property boundary, whichever comes first.

Appendix 1

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MWD-1-6 (R1T6)
Site Boundary
Due east of Coal Pile Storage Area, along eastern property line.

Date Sample Obtained:
Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissovled Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWD-1-6 (R1T6)
Site Boundary
Due east of Coal Pile Storage Area, along eastern property line.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

(Continued)

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED	TELEPHONE NO	DATE (yy/mm/dd)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWB-2-1 (R2T1)
Background
North of Coal Pile Storage Area, along northern
property line, and near NE property corner.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
___ Yes ___ No

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissovled Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:	GRU Deerhaven Power Plant	Monitoring Well ID:	MWB-2-1 (R2T1)
Permit Number:	FLA017161 (PA74-04) (SW ID# 97682)	Well Type:	Background
County:	Alachua	Description:	North of Coal Pile Storage Area, along northern property line, and near NE property corner.

Monitoring Period: _____
 From: _____ To: _____
 Date Sample Obtained: _____
 Was the well purged before sampling? Yes _____ No _____
 Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MW1-3-7 (R3T7)
Intermediate
SW side of the Coal Pile Storage Area, about 250' NE
of Pond #3.

From: _____ To: _____

___ Yes ___ No

Date Sample Obtained: _____

Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissovled Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MW1-3-7 (R3T7)
Intermediate
SW side of the Coal Pile Storage Area, about 250' NE of Pond #3.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

(Continued)

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MW1-4-5 (R4T5B)
Intermediate
SE side of the Ash Ponds.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissolved Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MW1-4-5 (R4T5B)
Intermediate
SE side of the Ash Ponds.

Monitoring Period:

From: To:

Date Sample Obtained:

Was the well purged before sampling?

Yes No

Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MWD-6-1 (R6T1B)
Site Boundary
NW of Secure Landfill, along northern property line.

From: To:

Date Sample Obtained:
Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissolved Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWD-6-1 (R6T1B)
Site Boundary
NW of Secure Landfill, along northern property line.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MW1-6-4 (R6T4B)
Intermediate
South side of the Secure Landfill.

Monitoring Period:
Was the well purged before sampling?

From: To:

Date Sample Obtained:
Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissolved Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MW1-6-4 (R6T4B)
Intermediate
South side of the Secure Landfill.

From: To:

Date Sample Obtained:
Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MW1-6-8 (R6T8B)
Intermediate
About 350' east of Pond #1, and SW of Coal Pile Storage Area.

From: _____ To: _____
____ Yes ____ No

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limit (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissovled Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MW1-6-8 (R6T8B)
Intermediate
About 350' east of Pond #1, and SW of Coal Pile Storage Area.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

(Continued)

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWD-6-12 (R6T12)
Site Boundary
Due west of Pond #4, and SW of Coal Pile Storage Area.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissovled Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWD-6-12 (R6T12)
Site Boundary
Due west of Pond #4, and SW of Coal Pile Storage Area.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
___ Yes ___ No

Date Sample Obtained:
Time Sample Obtained:

(Continued)											
Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			Report	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWC-8-10 (R8T10)
Compliance
SW of Coal Pile Storage Area, along SR 441.

Monitoring Period:

From: To:

Was the well purged before sampling?

Yes No

Date Sample Obtained:

Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			10	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			2000	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			4	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			5	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			100	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissolved Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			15	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			15	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			2	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			100	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			10	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			50	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWC-8-10 (R8T10)
Compliance
SW of Coal Pile Storage Area, along SR 441.

Monitoring Period:

From: To:

Date Sample Obtained:

Was the well purged before sampling?

Yes No

Time Sample Obtained:

(Continued)										Samples Filtered (L/F/N)
Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly			
Sodium	00923			160	mg/L	Grab	Quarterly			
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly			
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly			
Sulfate	00945			Report	mg/L	Grab	Quarterly			
Temperature	00010			Report	°C	In-situ	Quarterly			
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly			
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly			
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly			
Turbidity	00070			Report	NTU	In-situ	Quarterly			
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly			
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly			
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly			

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MW1-9-5 (R9T5B)
Intermediate
NW corner of Ash Landfill.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
Yes ___ No ___

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			Report	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			Report	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			Report	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			Report	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissolved Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			Report	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			Report	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			Report	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			Report	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			Report	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			Report	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MW1-9-5 (R9T5B)
Intermediate
NW corner of Ash Landfill.

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

Date Sample Obtained: _____
Time Sample Obtained: _____

(Continued)										Samples Filtered (L/F/N)
Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly			
Sodium	00923			Report	mg/L	Grab	Quarterly			
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly			
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly			
Sulfate	00945			Report	mg/L	Grab	Quarterly			
Temperature	00010			Report	°C	In-situ	Quarterly			
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly			
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly			
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly			
Turbidity	00070			Report	NTU	In-situ	Quarterly			
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly			
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly			
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly			

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWC-10-8 (R10T8)
Compliance
SW of Pond #1, SSW of Ash Landfill, along SR-441

Monitoring Period:
Was the well purged before sampling?

From: _____ To: _____
____ Yes ____ No

Date Sample Obtained:
Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			10	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			2000	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			4	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			5	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			100	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissolved Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			15	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			15	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			2	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			100	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			10	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			50	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MWC-10-8 (R10T8)
Compliance
SW of Pond #1, SSW of Ash Landfill, along SR-441

From: To:

Date Sample Obtained:
Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			160	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MWC-11-4 (R11T4B)
Compliance
West of Ash Landfill, along western property line.

From: _____ To: _____

Date Sample Obtained: _____
Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			10	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			2000	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			4	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			5	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			100	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissovled Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			15	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			15	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			2	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			100	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			10	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			50	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWC-11-4 (R11T4B)
Compliance
West of Ash Landfill, along western property line.

Monitoring Period:

From: To:

Was the well purged before sampling? Yes No

Date Sample Obtained:

Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			160	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Period:
Was the well purged before sampling?

Monitoring Well ID:
Well Type:
Description:

MWC-DEEP (DEEP-1)
Compliance
Plant Supply Well

From: To:

Date Sample Obtained:
Time Sample Obtained:

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Aluminum, Total Recoverable	01104			Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978			10	ug/L	Grab	Quarterly				
Barium, Total Recoverable	01009			2000	ug/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998			4	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113			5	ug/L	Grab	Quarterly				
Calcium, Total Recoverable	00918			Report	mg/L	Grab	Quarterly				
Chloride	00940			Report	mg/L	Grab	Quarterly				
Chromium, Total Recoverable	01118			100	ug/L	Grab	Quarterly				
Cobalt, Total Recoverable	00979			Report	ug/L	Grab	Quarterly				
Color	00080			Report	PCU	Grab	Quarterly				
Copper, Total Recoverable	01119			Report	ug/L	Grab	Quarterly				
Dissolved Oxygen	00300			Report	mg/L	In-situ	Quarterly				
Gross Alpha	80045			15	pCi/L	Grab	Quarterly				
Iron, Total Recoverable	00980			Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114			15	ug/L	Grab	Quarterly				
Magnesium, Total Recoverable	00921			Report	mg/L	Grab	Quarterly				
Manganese, Total Recoverable	11123			Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901			2	ug/L	Grab	Quarterly				
Molybdenum, Total Recoverable	01129			Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074			100	ug/L	Grab	Quarterly				
Nitrite+Nitrate (as N)	00630			10	mg/L	Grab	Quarterly				
pH (field)	00400			Report	SU	In-situ	Quarterly				
Potassium, Total	00937			Report	mg/L	Grab	Quarterly				
Redox Potential (ORP)	00090			Report	mV	Grab	Quarterly				
Selenium, Total Recoverable	00981			50	ug/L	Grab	Quarterly				

GROUNDWATER MONITORING WELL REPORT - PART D

Facility Name:
Permit Number:
County:

GRU Deerhaven Power Plant
FLA017161 (PA74-04) (SW ID# 97682)
Alachua

Monitoring Well ID:
Well Type:
Description:

MWC-DEEP (DEEP-1)
Compliance
Plant Supply Well

Monitoring Period:

From: To:

Date Sample Obtained:

Was the well purged before sampling?

Yes No

(Continued)

Parameter	PARM Code	Sample Measurement	Qualifier	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits (MDL)	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Silver, Total Recoverable	01079			Report	ug/L	Grab	Quarterly				
Sodium	00923			160	mg/L	Grab	Quarterly				
Specific Conductance (field)	00095			Report	umhos/cm	In-situ	Quarterly				
Strontium, Total Recoverable	01084			Report	ug/L	Grab	Quarterly				
Sulfate	00945			Report	mg/L	Grab	Quarterly				
Temperature	00010			Report	°C	In-situ	Quarterly				
Total Dissolved Solids	70295			Report	mg/L	Grab	Quarterly				
Total Organic Carbon	00680			Report	mg/L	Grab	Quarterly				
Total Suspended Solids	00530			Report	mg/L	Grab	Quarterly				
Turbidity	00070			Report	NTU	In-situ	Quarterly				
Vanadium, Total Recoverable	01128			Report	ug/L	Grab	Quarterly				
Water Level (NGVD)	82545			Report	Feet	In-situ	Quarterly				
Zinc, Total Recoverable	01094			Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

The DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C. Part D is used for reporting groundwater monitoring well data.

Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

In addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. Note: Codes used by the lab for raw data may be different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period since limit is conditional.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.
TNTC	Too numerous too count (for fecal coliform bacteria only).

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. In cases where a laboratory reports a value which is less than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), the value of 0.001 should be reported on the DMR.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.) Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following blanks in the header should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number. If there was no discharge of effluent for a particular outfall, reuse, or land application system and the DMR monitoring group includes other monitoring locations (e.g., influent sampling); the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.).

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in the units indicated. Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART C - LIMITED WET WEATHER DISCHARGE

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated.

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.

Rainfall Information: Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall) data, the cumulative rainfall for the average rainfall year, and the cumulative rainfall to date for this calendar year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which falls during an average rainfall year from January through the month for which this part contains data. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Date: Enter the date on which the discharge occurred.

Duration of Discharge: Enter the number of hours, to the nearest 0.1 of an hour (0.1 hr. = 6 min.) during each day of discharge that reclaimed water was actually discharged to surface waters.

Gallons Discharged: Enter the quantity in millions of gallons of reclaimed water discharged during the period shown in duration of discharge. Show the units as millions of gallons (mg), accurate to the nearest 0.01.

Average Discharge Flow Rate: Divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Average Upstream Flow Rate: Enter the average flow rate in the receiving stream upstream from the point of discharge for the period shown in duration of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Stream Dilution Factor: Enter the actual stream dilution ratio accurate to the nearest 0.1. To calculate the factor, divide the average upstream flow rate by the average discharge flow rate.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Total P: Enter the cumulative number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multiplied by 100%.

Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

PART D - GROUNDWATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.

ATTACHMENTS

ATTACHMENT E: Approved Groundwater Monitoring Plan

(to be attached in accordance with Section B. Condition I. paragraph B)