Progress Energy

6

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

October 8, 2007

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
3rd Quarter, 2007

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

If you should have any questions concerning this report, please contact Ron Johnson of my staff at (352) 563-4568 or Doug Yowell at (727) 820-5228.

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
REPORT: Monthly
GROUP: Industrial
MONITORING GROUP NUMBER: G-001

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2007/09/01** To: **2007/09/30**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.11	0.15	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	07/10/10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: **2007/07/01** To: **2007/09/30**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	****	****	7.7	7.7	SU	0	Quarterly	Grab
PARM Code 00400 1 / Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	Grab
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	****	****	****	360.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 / Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	****	****	****	645.0	UMHO/CM	0	Quarterly	Grab
PARM Code 00095 1 / Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Oil and Grease	Sample Measurement	****	****	****	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 / Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	****	****	****	32.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 / Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	**(352) 563-4484**	07/10/10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2007/07/01** To: **2007/09/30**

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle Activity	Sample Measurement	****	****	****	****	****		PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	****	****	****	< 0.5	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	****	****	****	30.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2007/07/01** To: **2007/09/30**

REPORT: Quarterly
GROUP: Industrial

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 10	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	****	****	****	4.50	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2007/07/01** To: **2007/09/30**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	****	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	****	****	****	11.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Quarterly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-00I

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2007/07/01** To: **2007/09/30**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	****	****	****	0.003	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	0.6	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	150.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.9	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	82.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	480	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	901	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	15.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.48	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.4	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.8	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.02	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Bernie M. Cumbie Manager, Crystal River Fossil Plant & Fuel Operations	Bernie M Cumbie	(352) 563-4484	07/10/08

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.022	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.016	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.010	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2007 To: 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	3.5	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	820.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	5.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.1	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	480.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,900	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	3,589	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.33	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	32.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	16.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.240	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.8	5.0	PCI/L	Grab	Quarterly	0.5	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	88.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.029	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.1	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	48.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	440	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	754	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.3	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.68	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	7.3	15.0	PCI/L	Grab	Quarterly	2.6	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	21.0	5.0	PCI/L	Grab	Quarterly	0.7	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12,000.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.79	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.020	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	6,100.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	21,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	3,201	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	0.7	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.82	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	24.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.3	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.030	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	3.2	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	37.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	19.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	480	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	889	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.3	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.47	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.6	15.0	PCI/L	Grab	Quarterly	3.0	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2007 To: 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.3	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.130	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2007 To: 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.5	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	1,200.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.59	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.610	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	750.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	3,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	5,421	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	7.7	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.14	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.5	15.0	PCI/L	Grab	Quarterly	2.6	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.2	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2007 To: 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1,200.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	1.0	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.550	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.3	5.0	PCI/L	Grab	Quarterly	0.7	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,100.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,200.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	7,540	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	19.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.88	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	20.0	15.0	PCI/L	Grab	Quarterly	2.6	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.770	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	3.6	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	110.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	72.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,584	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.25	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.9	15.0	PCI/L	Grab	Quarterly	2.7	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.4	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2007 To: 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.100	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.4	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	310.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	45.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	320.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	3,342	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	5.6	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.70	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.7	15.0	PCI/L	Grab	Quarterly	2.7	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2007 To: 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	95.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.3	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.380	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/01/2007
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	9.0	Report	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	62.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.56	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.2	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	41.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	480	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	790	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.2	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.28	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	17.0	Report	PCI/L	Grab	Quarterly	2.4	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	14.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.07	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/01/2007
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.470	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2007 **To:** 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.0	Report	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	11.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	8.6	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	763	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	54.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.56	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.5	Report	PCI/L	Grab	Quarterly	2.9	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/20/2007
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2007 To: 10/01/2007

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.6	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.140	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Progress Energy

1

Bernie M. Cumbie
Plant Manager
Crystal River Fossil Plant & Fuel Operations

December 18, 2007

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
November 2007

Enclosed is the monthly monitoring report for above referenced permit. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228 .

Sincerely,

Wayne Ter for

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Monthly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-001

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/11/01 To: 2007/11/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.37	0.47	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Daily Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	C Wayne Tu for	(352) 563-4484	07/12/19

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

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Progress Energy

Bernie M. Cumbie
Plant Manager
Crystal River Fossil Plant & Fuel Operations

January 15, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
Corrected DMRs July 2007 through October 2007

Enclosed are corrected monthly monitoring reports for above referenced permit. In December 2007, it was discovered that an internal coefficient had been incorrectly set when the new flow meter was installed in July 2007. These submittals correct previously submitted flow reports for July 2007 through October 2007.

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228 .

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
REPORT: Monthly
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: **2007/07/01** To: **2007/07/31**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.42	0.65	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/01/14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Corrected Flow Value. Meter coefficient found to be incorrectly set in meter.

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
REPORT: Monthly
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: **2007/08/01** To: **2007/08/31**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.44	0.87	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/01/14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Corrected Flow Value. Meter coefficient found to be incorrectly set in meter.

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Monthly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: **2007/09/01** To: **2007/09/30**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.41	0.58	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		*****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/01/14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Corrected Flow Value. Meter coefficient found to be incorrectly set in meter.

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Monthly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2007/10/01** To: **2007/10/31**

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.41	0.85	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/01/14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Corrected Flow Value. Meter coefficient found to be incorrectly set in meter.

DEP Form 62-620.910(10), Effective November 29, 1994

Progress Energy

9

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

January 21, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
4th Quarter, 2007

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228.

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

Progress Energy

CERTIFICATION STATEMENT

Subject Document: Progress Energy Florida Inc.
Groundwater Monitoring Report
Permit # FLA016960

I certify that I am familiar with the information contained in this report and that to my knowledge and belief such information is true, complete, and accurate.

Bernie M Cumbie 1/23/08

Name: Bernie M. Cumbie Date
Title: Manager, Crystal River Fossil Plant & Fuel Operations
Telephone number: (352) 563-4484

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2007/12/01 To: 2007/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.33	0.45	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/01/22

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/10/01 To: 2007/10/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	****	****	7.6	7.6	SU	0	Quarterly	Grab
PARM Code 00400 1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1											
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	****	****	****	746.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1											
Specific Conductance	Sample Measurement	****	****	****	****	****	843.0	UMHO/CM	0	Quarterly	Grab
PARM Code 00095 1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1											
Oil and Grease	Sample Measurement	****	****	****	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1											
Chloride (as Cl)	Sample Measurement	****	****	****	****	****	27.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	**(352) 563-4484**	08/01/22

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2007/10/01 To: 2007/10/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	****	****	****	5.0	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle Activity	Sample Measurement	****	****	****	****	****	< 2.5	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	****	****	****	0.7	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	****	****	****	50.0	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	****	****	****	21.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/10/01 To: 2007/10/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	****	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 10	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	****	****	****	3.00	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2007/10/01 To: 2007/10/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	****	****	****	2.7	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	****	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	****	****	****	50.0	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	****	****	****	19.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2007/10/01 To: 2007/10/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	****	****	****	20.0	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	****	****	****	0.019	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2007 To: 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	1.3	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	100.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	63.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	430	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	742	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	5.2	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	4.84	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.5	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.8	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Bernie M. Cumbie Manager, Crystal River Fossil Plant & Fuel Operations	Bernie M Cumbie	(352) 563-4484	08/01/21

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.066	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	4.0	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	830.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.7	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	310.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,260	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,341	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.86	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	27.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.4	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	0.8	5.0	PCI/L	Grab	Quarterly	0.5	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	78.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.1	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	42.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	703	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	6.4	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.16	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.1	15.0	PCI/L	Grab	Quarterly	2.6	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2007 To: 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2007 To: 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	6.5	5.0	PCI/L	Grab	Quarterly	0.7	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12,000.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.98	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	5,900.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	21,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	31,360	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.3	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.23	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	46.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.05 U	2.0	mg/L	Grab	Quarterly	0.05	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.5	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	2.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2007 To: 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	5.0 U	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.3	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.020 U	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.310	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.025 U	Report	mg/L	Grab	Quarterly	0.025	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.6	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	32.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	18.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	510	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	814	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	2.5	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.03	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.7	15.0	PCI/L	Grab	Quarterly	3.0	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.094	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	640.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.25	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.360	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	480.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,940	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	5,190	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.5	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.16	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.7	15.0	PCI/L	Grab	Quarterly	2.6	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	9.5	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	340.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.3	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.130	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: -MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	3.3	5.0	PCI/L	Grab	Quarterly	0.7	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,000.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,100.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,330	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	7,240	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	12.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.40	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	50.0	15.0	PCI/L	Grab	Quarterly	2.6	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.2	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.04	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.074	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.8	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	46.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.4	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	42.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,130	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,342	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	0.4	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.85	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	14.0	15.0	PCI/L	Grab	Quarterly	2.7	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.7	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.062	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.0	5.0	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	270.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	42.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.260	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.3	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	280.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,350	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	3,089	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	2.3	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	7.9	15.0	PCI/L	Grab	Quarterly	2.7	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.3	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	160.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.230	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2007 To: 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.380	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2007 To: 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	Report	PCI/L	Grab	Quarterly	0.6	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	10.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.110	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.5	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	8.3	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	380	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	726	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	20.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.99	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.5	Report	PCI/L	Grab	Quarterly	2.9	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/24/2007
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2007 **To:** 01/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.140	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

10

Progress Energy

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

January 23, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
Revised 3rd Quarter 2007 Submittal

Enclosed is a revised 3rd quarter 2007 monitoring report for above referenced permit. The data for alpha, gross particle activity was omitted from the original submittal for the land application system (G-001).

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228.

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

Progress Energy

CERTIFICATION STATEMENT

Subject Document: Progress Energy Florida Inc.
Groundwater Monitoring Report
Permit # FLA016960

I certify that I am familiar with the information contained in this report and that to my knowledge and belief such information is true, complete, and accurate.

Bernie M Cumbie 1/23/08

Name: Bernie M. Cumbie Date
Title: Manager, Crystal River Fossil Plant & Fuel Operations
Telephone number: (352) 563-4484

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/07/01 To: 2007/07/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	****	****	7.7	7.7	SU	0	Quarterly	Grab
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	Grab
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	****	****	****	360.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	****	****	****	645.0	UMHO/CM	0	Quarterly	Grab
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Oil and Grease	Sample Measurement	****	****	****	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	****	****	****	32.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	**(352) 563-4484**	08/01/22

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Quarterly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/07/01 To: 2007/07/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Alpha, Gross Particle Activity	Sample Measurement	****	****	****	****	****	3.4	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	****	****	****	< 0.5	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	****	****	****	30.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/07/01 To: 2007/07/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 10	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	****	****	****	4.50	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-00I
MONITORING GROUP DESC: Three-stage Percolation Pond System

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/07/01 To: 2007/07/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	****	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	****	****	****	11.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC PEF-903
St.Petersburg, FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
REPORT: Quarterly
GROUP: Industrial
MONITORING GROUP NUMBER: G-00I

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2007/07/01 To: 2007/07/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	****	****	****	0.003	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

RAI 4 2008 Industrial Waste Water Reports

Progress Energy

Bernie M. Cumbie
Plant Manager
Crystal River Fossil Plant & Fuel Operations

February 21, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
January 2008

Enclosed is the monthly monitoring report for above referenced permit. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228 .

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/01/01 To: 2008/01/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.26	0.43	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/02/21

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Value is based on three weeks of data. Data collection system failed.

DEP Form 62-620.910(10), Effective November 29, 1994

2

Progress Energy

Bernie M. Cumbie
Plant Manager
Crystal River Fossil Plant & Fuel Operations

March 20, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
February 2008

Enclosed is the monthly monitoring report for above referenced permit. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/02/01 To: 2008/02/29

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.33	0.42	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/03/20

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

Progress Energy

3

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

April 25, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
1st Quarter - 2008

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228.

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

Progress Energy

CERTIFICATION STATEMENT

Subject Document: Progress Energy Florida Inc.
Groundwater Monitoring Report
Permit # FLA016960

I certify that I am familiar with the information contained in this report and that to my knowledge and belief such information is true, complete, and accurate.

Bernie M Cumbie 4/28/08

Name: Bernie M. Cumbie Date
Title: Manager, Crystal River Fossil Plant & Fuel Operations
Telephone number: (352) 563-4484

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2008/03/01 To: 2008/03/31

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.36	0.53	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo Avg)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/04/28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD-From: 2008/01/01 To: 2008/03/31

REPORT: Quarterly
GROUP: Industrial

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	***	****	8.1	8.1	SU	0	Quarterly	Grab
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	Grab
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	***	****	****	410.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	***	****	****	737.0	UMHO/CM	0	Quarterly	Grab
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Oil and Grease	Sample Measurement	****	****	***	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	***	****	****	23.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/04/28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD-From: 2008/01/01 To: 2008/03/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	5.8	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	0.6	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	50.0	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	18.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD–From: 2008/01/01 To: 2008/03/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	****	****	****	0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	****	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.01	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	****	****	****	3.30	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD–From: 2008/01/01 To: 2008/03/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	***	****	****	16.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD–From: 2008/01/01 To: 2008/03/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	***	****	****	0.003	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and Radium 228	11503	0.4	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	110.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	64.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	440	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	784	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	5.2	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	5.24	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	8.3	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.2	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	(352) 563-4484	08/04/28

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	4.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	780.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	4.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.063	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.9	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	400.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,700	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	3,008	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.9	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.43	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	46.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	9.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.530	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	120.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.12	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.400	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	44.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	728	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.1	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.69	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	13.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.3	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.055	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	6.3	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12,000.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	6,700.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	21,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	32,610	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.24	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	72.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.04	2.0	mg/L	Grab	Quarterly	0.05	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	5.0	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.170	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005	Report	mg/L	Grab	Quarterly	0.025	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	46.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	26.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	570	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	944	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.8	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.94	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	16.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	300.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.02	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.100	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	200.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	1,724	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	0.9	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.85	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	7.4	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.7	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	50.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.5	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.190	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	6.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,100.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.70	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.056	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,100.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	7,250	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	8.9	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.06	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	60.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	70.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.049	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	42.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,486	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.8	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.33	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	18.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.098	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	300.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	38.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	250.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,996	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	3.1	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.31	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.1	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.9	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Nickel, Total Recoverable	01074	160.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.250	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	4.7	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	91.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.170	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.1	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	53.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	560	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	913	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	2.9	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.90	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	53.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	83.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.10	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	8.7	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.510	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	11.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.050	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	11.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	390	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	721	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	9.1	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.75	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.9	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/17/2008
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2008 **To:** 04/01/2008

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.150	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Progress Energy

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Bernie M. Cumbie
Plant Manager
Crystal River Fossil Plant & Fuel Operations

May 27, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
April 2008

Enclosed is the monthly monitoring report for above referenced permit. This submittal includes the current month flow monitoring to the land application system (G-001).

As noted on the report the data acquisition system is not operating and the daily flow and maximum flow has been estimated from the totalizer values.

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228 .

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Three-stage Percolation Pond System

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, Inc.

MAILING: P.O.Box 14042 MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

FACILITY: **Crystal River Energy Complex**

LOCATION: 15760 West Powerline St. Crystal River, FL 34428

COUNTY: Citrus

PERMIT NUMBER: FLA016960

LIMIT: Final

CLASS SIZE:

DISCHARGE POINT NUMBER: G-001

PLANT SIZE/TREATMENT TYPE:

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD--From: **2008/04/01** To: **2008/04/30**

WAFR Site No.:

GMS ID No.:

GMS Test Site No.:

REPORT: Monthly

GROUP: Industrial

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.30	0.37	MGD	****	****	****	****	0	Daily	Meter
STORET No. 50050 1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie **Manager, Crystal River Fossil Plant & Fuel Operations**	Bernie M Cumbie	**(352) 563-4484**	08/05/27

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Daily data aquisition system inoperable from 4/1/08-4/28/08. Daily average flow estimated from totalizer value during this time. Max. flow value obtained from daily data collected 4/28/08-4/30/08.

DEP Form 62-620.910(10), Effective November 29, 1994

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Progress Energy

Bernie M. Cumbie
Plant Manager
Crystal River Fossil Plant & Fuel Operations

June 24, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
May 2008

Enclosed is the monthly monitoring report for above referenced permit for the month of May 2008. This submittal includes the current month flow monitoring to the land application system (G-001).

As noted on the report the data acquisition system is not operating and the daily flow and maximum flow has been estimated from the totalizer values and daily manual readings.

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228 .

Sincerely,

Bernie M. Cumbie
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Bernie M. Cumbie

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2008/05/01 To: 2008/05/31

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

PARAMETER			QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow		Sample Measurement	0.30	0.40	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050	1	Permit Requirement	0.91 (Mo. Avg.)	Report (Daily Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1												

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Bernie M. Cumbie Manager, Crystal River Fossil Plant & Fuel Operations	Bernie M Cumbie	(352) 563-4484	08/06/04

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Daily data aquisition system is not functioning daily readings were taken and estimate were made from the totalizer readings for the month of May 2008.

DEP Form 62-620.910(10), Effective November 29, 1994

FP 125 20Q

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Progress Energy

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

July 21, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
2nd Quarter - 2008

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

If you should have any questions concerning this report, please contact Cyndy Wilkinson of my staff at (352) 563-4396 or Doug Yowell at (727) 820-5228.

Sincerely,

Larry E. Hatcher

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

Progress Energy

CERTIFICATION STATEMENT

Subject Document: Progress Energy Florida Inc.
Groundwater Monitoring Report
Permit # FLA016960

I certify that I am familiar with the information contained in this report and that to my knowledge and belief such information is true, complete, and accurate.

Larry E. Hatcher 7/21/08

Name: Larry E. Hatcher Date

Title: Manager, Crystal River Fossil Plant & Fuel Operations

Telephone number: (352) 563-4484

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	0.8	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	88.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	45.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	420	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	736	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	4.8	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.14	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.1	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	08/07/15

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.086	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	610.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.9	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	300.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,450	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	1.2	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.67	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	26.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	9.6	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.9	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	83.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.040	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	34.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	725	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	2.7	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.78	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.4	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	11,000.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	6,000.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	20,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	29,640	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	2.2	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.29	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	37.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.05 U	2.0	mg/L	Grab	Quarterly	0.05	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	5.0 U	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.5	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.049	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.025 U	Report	mg/L	Grab	Quarterly	0.025	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.7	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	44.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.046	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	20.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	540	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	910	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	4.0	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.90	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	12.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.069	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	440.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.02	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.200	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	270.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,241	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	2.4	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.81	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.2	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.8	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	19.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.4	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.130	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

TO:

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	1,900.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,200.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	7,180	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	6.7	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.65	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	31.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.072	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	43.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850		10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	29.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,400	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	5.2	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.75	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.1	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.6	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.2	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.083	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	260.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	39.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.002 U	10.0	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	230.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	2,976	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	4.8	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.36	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.8	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	8.9	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	100.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.3	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.180	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	4.7	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	95.0	Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.200	Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	44.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	560	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095	922	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700	0.5	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.95	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	26.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	44.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.09	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300	0.1	Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.380	Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained:
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503		Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly	0.1	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850		Report	mg/L	Grab	Quarterly	0.002	EPA 300.0	Peristaltic Pump	N
pH	00400		Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance	00095		Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity	00700		Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545		Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268		Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978		Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009		Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998		Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Cadmium, Total Recoverable	01113		Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114		Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained:
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Nickel, Total Recoverable	01074		Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982		Report	ug/L	Grab	Quarterly	.1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)	00300		Report	mg/L	In-Situ	Quarterly		FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951		Report	mg/L	Grab	Quarterly	0.003	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248		Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

COMMENTS AND EXPLANATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/06/01 To: 2008/06/30

PARAMETER			QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow		Sample Measurement	0.31	0.43	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050	1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1												

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	7/21/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	***	****	8.0	8.0	SU	0	Quarterly	Grab
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	Grab
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	***	****	****	310.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	***	****	****	700.0	UMHO/CM	0	Quarterly	Grab
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Oil and Grease	Sample Measurement	****	****	***	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	***	****	****	20.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	7/21/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	3.2	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	0.4	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	8.5	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.01	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	***	****	****	1.60	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	****	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	****	****	****	12.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Quarterly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable		Sample Measurement	****	****	***	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982	1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1												
Zinc, Total Recoverable		Sample Measurement	****	****	***	****	****	0.017	MG/L	0	Quarterly	Grab
PARM Code 01094	1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1												

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 8551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/06/01 To: 2008/06/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.31	0.43	MGD	****	****	****	---	0	Daily	Meter
PARM Code 50050 1	Permit Requirement	0.91 (Mo. Avg.)	Report (Daily Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	7/21/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: [ ]

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	***	****	8.0	8.0	SU	0	Quarterly	Grab
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	Grab
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	***	****	****	310.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	***	****	****	700.0	UMHO/CM	0	Quarterly	Grab
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Oil and Grease	Sample Measurement	****	****	***	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	***	****	****	20.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	7/21/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	3.2	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	0.4	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	8.5	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.01	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	***	****	****	1.60	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	***	****	****	12.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2008/04/01 To: 2008/04/30

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

PARAMETER			QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable		Sample Measurement	****	****	***	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982	1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1												
Zinc, Total Recoverable		Sample Measurement	****	****	***	****	****	0.017	MG/L	0	Quarterly	Grab
PARM Code 01094	1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mon. Site No EFF-1												

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

7

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

August 26, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
July ~~May~~ 2008

Enclosed is the monthly monitoring report for above referenced permit for the month of July 2008. This submittal includes the current month flow monitoring to the land application system (G-001).

As noted on the report the data acquisition system is not operating and the daily flow and maximum flow has been estimated from the totalizer values and daily manual readings.

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 563-5175 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC PEF-903
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Monthly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2008/07/01 To: 2008/07/31

PARAMETER				QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow			Sample Measurement	0.35	0.64	MGD	****	****	****	***		Daily	Meter
PARM Code 50050 Mon. Site No FLW-1		1	Permit Requirement	0.91 (Mo. Avg)	Report (Day. Max)		****	****	****		0	Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	8/27/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Data acquisition system is inoperable. Values are estimated from totalizer values and manual readings.

DEP Form 62-620.910(10). Effective November 29, 1994

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Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

September 25, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
May 2008

Enclosed is the monthly monitoring report for above referenced permit for the month of August 2008. This submittal includes the current month flow monitoring to the land application system (G-001).

As noted on the report the data acquisition system is not operating and the daily flow and maximum flow has been estimated from the totalizer values and daily manual readings.

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 563-5175 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
CN77
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2008/08/01 To: 2008/08/31

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.39	0.87	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	9/26/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Daily data aquisition system inoperable from 8/8/08-08/11/08. Average estimated during this time from 28-day total. Max. flow reading from daily readings.

DEP Form 62-620.910(10), Effective November 29, 1994

Progress Energy

9

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

October 15, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
3rd Quarter - 2008

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells for the 3rd quarter 2008.

Also included is a revised monitoring well report for the 2nd quarter, 2008. The data for monitoring well MWI-7R was inadvertently omitted in the original submittal. Additionally, nitrate data for MWC-29 was omitted in the original submittal. Finally, updated detection limit values are provided for all wells.

Should have any questions concerning this report, please contact Doug Yowell at (727) 820-5228, or Erika Tuchbaum-Biro of my staff at (352) 563-4396.

Sincerely,

Larry E. Hatcher

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD–From: 2008/09/01 To: 2008/09/30

REPORT: Monthly
GROUP: Industrial

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.35	0.51	MGD	****	****	****	***		Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Daily Max)		****	****	****		0	Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	10/15/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD-From: 2008/09/01 To: 2008/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	****	****	8.0	8.0	SU	0	Quarterly	In-situ
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	****	****	****	260.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	****	****	****	486.0	UMHO/CM	0	Quarterly	In-situ
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	In-situ
Oil and Grease	Sample Measurement	****	****	****	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	****	****	****	26.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	10/15/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD–From: 2008/09/01 To: 2008/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	3.8	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	0.9	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	36.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
REPORT: Quarterly
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD–From: 2008/09/01 To: 2008/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.01	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	***	****	****	4.30	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD–From: 2008/09/01 To: 2008/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	***	****	****	2.8	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	***	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	***	****	****	18.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD–From: 2008/09/01 To: 2008/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	***	****	****	0.012	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	1.7	Report	PCI/L	Grab	Quarterly	0.5	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	93.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.043	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	61.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	360	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	689	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.30	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.46	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.3	Report	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.8	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	08/10/14

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.120	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	75.92	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	2.9	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	660.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.86	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.100	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	260.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	1,900	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.97	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	17.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.071	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	73.58	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.8	5.0	PCI/L	Grab	Quarterly	0.3	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	76.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.19	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.046	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	40.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	340	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	668	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.10	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	4.87	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	10.0	15.0	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.055	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	73.04	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	15.0	5.0	PCI/L	Grab	Quarterly	0.5	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	5,800.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	21,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	29,330	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.55	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.67	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	73.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.05	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2008 **To:** 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	5.0 U	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.4	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.029	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	80.78	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/30/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.0	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	31.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.054	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.4	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	17.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	480	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	757	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	4.03	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	14.0	15.0	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/30/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.130	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	75.92	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/30/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.9	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	420.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.12	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.360	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	270.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,218	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.50	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.51	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	3.8	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.6	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/30/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2008 *To: 10/01/2008*

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	15.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.6	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.190	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	80.96	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	12.0	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,100.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,200.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	6,790	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.70	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.64	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	51.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.045	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.150	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	72.68	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.9	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	21.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.80	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.046	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	28.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,140	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.50	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.50	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	18.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.093	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	75.38	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.8	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	260.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	40.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.2	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	230.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,649	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	19.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.27	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.5	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	9.5	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	78.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.200	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	79.16	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24. Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2008 **To:** 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (Y/E/N)
Radium 226 and 228	11503	4.5	Report	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	58.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.80	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.1	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	36.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	440	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	757	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	16.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.55	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	36.0	Report	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	59.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.11	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 08/11/2008
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 07/01/2008 **To:** 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (Y/E/N)
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.013	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.540	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.82	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/30/2008
Monitoring Well ID: MW-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	0.4	Report	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	9.7	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.061	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	10.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	320	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	595	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	5.30	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.86	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.5 U1	Report	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/30/2008
Monitoring Well ID: MW-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2008 To: 10/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.170	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	77.90	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and Radium 228	11503	0.8	Report	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	88.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	45.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	420	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	736	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	4.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.14	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.0	Report	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.1	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	08/10/14

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.086	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.0	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	610.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	300.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,450	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.67	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	26.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	9.6	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 04/01/2008 **To:** 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	1.9	5.0	PCI/L	Grab	Quarterly	0.5	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	83.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.040	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	34.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	725	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.70	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.78	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.4	15.0	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling (X) Yes ( ) No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes _ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.4	5.0	PCI/L	Grab	Quarterly	0.5	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	11,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	6,000.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	20,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	29,640	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.29	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	37.0	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01 U	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	5.0 U	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.5	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.049	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.7	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	44.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.046	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	20.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	540	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	910	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	4.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.90	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	12.0	15.0	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.069	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (Y/F/N)
Radium 226 and 228	11503	0.4 U1	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	440.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.02	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.200	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	270.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,241	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.81	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.2	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.8	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	19.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.4	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.130	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes ☐ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.5	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	1,900.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,200.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	7,180	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	6.70	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.65	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	31.0	15.0	PCI/L	Grab	Quarterly	2.80	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.072	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.0	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	43.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.041	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	29.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,400	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	5.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.75	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.1	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.6	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 04/01/2008 **To:** 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.083	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 04/01/2008 **To:** 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.5	5.0	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	260.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	39.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	230.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,976	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	4.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.36	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.8	15.0	PCI/L	Grab	Quarterly	2.8	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	8.9	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	2.0	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	100.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.180	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 04/01/2008 **To:** 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (Y/E/N)
Radium 226 and 228	11503	4.7	Report	PCI/L	Grab	Quarterly	0.4	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	95.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.200	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH*	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	44.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	560	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	922	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.45	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.95	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	26.0	Report	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	44.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.088	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MWI-2R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 04/01/2008 **To:** 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (Y/F/N)
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO)*	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.380	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MW-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 04/01/2008 **To:** 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	Report	PCI/L	Grab	Quarterly	0.5	Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	4.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	5.9	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	360	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	693	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	20.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	4.29	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.0	Report	PCI/L	Grab	Quarterly	2.5	EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.01	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/10/2008
Monitoring Well ID: MW-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2008 To: 07/01/2008

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.091	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

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Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

November 20, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of October 2008. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228 .

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2008/10/01 To: 2008/10/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.29	0.45	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	11/24/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

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Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

December 22, 2008

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
May 2008

Enclosed is the monthly monitoring report for above referenced permit for the month of November 2008. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 563-5175 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatch

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

Three-stage Percolation Pond System

PERMITTEE NAME: Progress Energy Florida, Inc.

MAILING: P.O.Box 14042 MAC CN77, St.Petersburg FL 33733, ATTN: Larry E. Hatcher

FACILITY: Crystal River Energy Complex

LOCATION: 15760 West Powerline St. Crystal River, FL 34428

COUNTY: Citrus

PERMIT NUMBER: FLA016960

LIMIT: Final

CLASS SIZE:

DISCHARGE POINT NUMBER: G-001

PLANT SIZE/TREATMENT TYPE:

NO DISCHARGE FROM SITE:

WAFR Site No.:

GMS ID No.:

GMS Test Site No.:

REPORT: Monthly

GROUP: Industrial

MONITORING PERIOD--From: 2008/11/01 To: 2008/11/30

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.35	0.45	MGD	****	****	****	****	0	Daily	Meter
STORET No. 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	12/23/08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

12520 A

12

Progress Energy

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

January 22, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
3rd Quarter - 2008

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells for the 4th quarter 2008.

Should have any questions concerning this report, please contact Doug Yowell at (727) 820-5228, or Erika Tuchbaum-Biro of my staff at (352) 563-4396.

Sincerely,

Larry E. Hatcher

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2008/12/01 To: 2008/12/31

REPORT: Monthly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER			QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow		Sample Measurement	0.36	0.46	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050	1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1												

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	1/23/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2008/12/01 To: 2008/12/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	****	****	7.7	7.7	SU	0	Quarterly	In-situ
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	****	****	****	610.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	****	****	****	949.0	UMHO/CM	0	Quarterly	In-situ
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	In-situ
Oil and Grease	Sample Measurement	****	****	****	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	****	****	****	38.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatch	(352) 563-4484	1/23/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/12/01 To: 2008/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	7.6	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	1.0	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	10.0	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	31.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/12/01 To: 2008/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	***	****	****	0.005	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.004	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	***	****	****	3.00	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/12/01 To: 2008/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	****	****	****	< 10	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	****	****	****	4.2	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	****	****	****	50.0	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	****	****	****	32.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2008/12/01 To: 2008/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	***	****	****	0.059	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

December 3, 2008
Project No: 86857

Laboratory Report

Project Name	Quarterly Land Application Analyses - Crystal River Site
Sample Description	EFF-1
Matrix	Wastewater
SAL Sample Number	86857.01
Date/Time Collected	10/29/08 09:18
Date/Time Received	10/29/08 15:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Specific Conductivity	umhos/cm	20	DEP FT1200		10/29/08 09:18		LRW
pH	Units	7.7	DEP FT1100		10/29/08 09:18		LRW
Inorganics							
Chloride	mg/l	38 C2	EPA 300.0	0.05	11/07/08 22:00		MEJ
Specific Conductance	umhos/cm	949	SM 2510B	0.5	11/25/08 16:30		MTU
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 09:51	EPL
Hexane Extractable Material, Total	mg/l	1.3 U	EPA 1664	1.3	11/06/08 13:00	11/04/08 08:00	CDD
Total Dissolved Solids	mg/l	610	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.031	EPA 206.2	0.001	11/11/08 11:53	11/06/08 08:00	MKB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.0011 I	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Chromium	mg/l	0.004 U	EPA 200.7	0.004	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.013 I	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	3.0	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Mercury	mg/l	0.0001 U	EPA 245.1	0.0001	10/31/08 15:50	10/30/08 12:10	SMW
Sodium	mg/l	32	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.0042	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.01 U	EPA 200.7	0.01	11/06/08 14:53	11/05/08 12:55	LCB
Antimony	mg/l	0.017 I	EPA 200.7	0.01	11/06/08 14:53	11/05/08 12:55	LCB
Selenium	mg/l	0.050 I	EPA 200.7	0.05	11/06/08 14:53	11/05/08 12:55	LCB
Thallium	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Zinc	mg/l	0.059	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	7.6±2.3	EPA 900.0	2.0	11/03/08 14:48	10/30/08 08:00	JMK
Radium-226/228 Combined	pCi/l	1.0±0.3	Calculation	0.3	11/20/08 17:40		JMK
Radium-226	pCi/l	1.0±0.3	EPA 903.1	0.07	11/13/08 14:20	10/30/08 12:30	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	11/20/08 17:40	11/16/08 11:00	JMK

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

December 3, 2008
Project No: 86857

Laboratory Report

Footnotes

*	Test results presented in this report meet all the requirements of the NELAC standards.
**	A statement of estimated uncertainty of test results is available upon request.
***	For methods marked with ***, all QC criteria have been met for this method which is equivalent to a SAL certified method.
C2	Analyte confirmed by analysis of a second aliquot of sample.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Analyte was undetected. Indicated concentration is method detection limit.
U1	Analyte was not detected; indicated concentration is method detection limit. Radiochemistry MDL is sample specific and matrix dependent.

Field conductivity reading is inacurate. Conductivity is reported by both field and laboratory analysis.

FDOH Laboratory No. E84129
NELAP Accredited

Approved By: Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 86857

Client Name: Progress Energy, Inc.

Contact / Phone: Ron Johnson

Project Name / Location: Quarterly Land Application Analyses - Crystal River Site

Samplers: (Signature) Zay Wind

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	1LP, Cool 4°C TDS, Cl, conductivity	250ml P, HNO_3 Sb, As, Be, Cd, Cu, Cr, Fe, Pb, Hg, Ni, Se, Na, Tl, Zn	250mL P, NaOH Cyanide	1/2 Gallon Jug, HNO_3 Gross alpha, Radium 226+228	1LG, HCl HEM (Total)	125mL G, HCl HEM (Total)			No. of Containers (Total per each location)
01	EFF-1	10/23/08	0918	WW		X	1	1	1	1	1	1			6

Containers Prepared/ Relinquished:	Date/Time: 1500 10-07-08	Received: Zay Wind	Date/Time: 10/23/08 1400
Relinquished: Zay Wind	Date/Time: 10/23/08 1500	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N N/A

Samples intact upon arrival? Y N N/A

Received on ice? Temp_____ Y N N/A

Proper preservatives indicated? Y N N/A

Rec'd within holding time? Y N N/A

Volatiles rec'd w/out headspace? Y N N/A

Proper containers used? Y N N/A

Instructions / Remarks

Field Measurements: pH

Chain of Custody.xls
Rev.Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	Progress Energy - Crystal River	Location:	EFF-1	Contact: / Phone:	Ron Johnson
Date of Sample:	10/29/08	SAL Project #	810857	Project Name:	Quarterly Land Application
SAL Audit Performed:	Y N	Auditor Name: / Signature:		Client Representative on Site?	Y N — Rep. Name: / Signature:

SAMPLE DATA

Sampled By:	SAL ~~Client~~	Compositor Belongs To:	~~SAL Client~~ N/A	COMP Bottle Belongs To:	~~SAL Client~~ N/A
Compositor ID:		Bottle ID			
Intake Tubing Type:	PP PE NP TL TT SI	IntakeTubing Lot:		Pump Tubing Lot:	

~~COMPOSITE DATA~~ ~~Composite ID Number:~~

START	Date:		Time:	Compositor Set-up By:	
STOP	Date:		Time:	Compositor Picked-up By:	

Composite Type:	Time Flow Continuous	Collect Sample Every:		Minutes Gallons
Calibrated Sample Volume:		mLs		
Programmed Number of Samples:		Actual Number of Samples Collected:		
Final Compositor Temperature:		°C	Ice Present in Compositor at Pick-up?	Yes No

GRAB SAMPLE DATA Grab ID Number: 01

Date Collected:	10/29/08	Time Collected:	0615	Collected By:	[illegible]

FIELD PARAMETERS

PARAMETER	READING	UNITS	PERMIT LIMIT
pH	7.7	SU	
Temperature	88.5	°C	Report Only
Specific Conductance	19.6		
Preservation Checked in Field?	Y N	Checked By:	
List any Preservatives Added in Field:			
Comments:			

Sampler(s) Signature:		Date	
		Date	
Reviewed By:		Date:	

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well *
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	1.8	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	76.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	47.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	440	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	664	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.40	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	11.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.3	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatch	(352) 563-4484	**09/01/21**

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.100	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.46	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2008 **To:** 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	8.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	810.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	4.80	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.1	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	430.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,800	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	3,208	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.65	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.75	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	31.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	11.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	73.58	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/30/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2008 **To:** 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.6	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	73.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.25	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.1	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	42.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	500	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	696	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.28	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.8	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/30/2008
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2008 **To:** 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	73.58	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2008 **To:** 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	15.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	9,200.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.4	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	5,100.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	18,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	23,600	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	79.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.039	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	5.0 U	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.8	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.480	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	78.80	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.6	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	34.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	22.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	570	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	819	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.70	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.18	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	15.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.120	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	82.04	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	550.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.83	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.120	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	320.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,500	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,343	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.60	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.69	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.9	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.9	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	12.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	1.4	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.180	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	77.18	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/30/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	8.7	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,200.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	6,850	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	4.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.59	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	29.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.034	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/30/2008
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	72.50	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2008 **To:** 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	3.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	66.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.3	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	41.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,100	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,222	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.74	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	23.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.3	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.074	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.82	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	310.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	35.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.2	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	260.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,812	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	8.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.09	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.1	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.8	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	93.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.6	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.200	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.64	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/30/2008
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 10/01/2008 **To:** 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.1	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	61.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.3	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	33.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	490	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	695	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	5.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.27	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	29.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	240.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.130	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/30/2008
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	7.4	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.650	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	78.26	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	11.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.6	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	11.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	606	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	19.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.21	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	3.2	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/29/2008
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2008 To: 01/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.140	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.64	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-1**
Matrix	**Groundwater**
SAL Sample Number	**86852.01**
Date/Time Collected	**10/30/08 08:48**
Date/Time Received	**10/30/08 13:41**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	20.10			10/30/08 08:47		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.20			10/30/08 08:47		LRW
Depth to Water (below Top of Casing)	ft.	4.45	DEP FS2211		10/30/08 08:47		LRW
Specific Conductance	umhos/cm	3,208	DEP FT1200		10/30/08 08:47		LRW
Water Elevation	ft., NGVD	2.75	DEP FS2211		10/30/08 08:47		LRW
Water Temperature	C	23.1	DEP FT1400		10/30/08 08:47		LRW
pH	Units	7.1	DEP FT1100		10/30/08 08:47		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/30/08 08:47		LRW
Turbidity	NTU	0.65	DEP FT1600		10/30/08 08:47		LRW
Inorganics							
Chloride	mg/l	810	EPA 300.0	0.05	11/07/08 18:02		MEJ
Cyanide, Total	mg/l	0.0074 I	EPA 335.2	0.005	11/03/08 14:15	11/01/08 11:10	JSB
Fluoride	mg/l	0.039 I	EPA 300.0	0.01	10/30/08 19:04		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 19:04		VWC
Total Dissolved Solids	mg/l	1,800	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.011	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.012 I	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/04/08 17:37	11/01/08 13:40	HWS
Cadmium	mg/l	0.0011 I	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Iron	mg/l	4.8	EPA 200.7	0.02	11/04/08 17:37	11/01/08 13:40	HWS
Sodium	mg/l	430	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/04/08 17:37	11/01/08 13:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	31±3.4	EPA 00-02	2.8	11/05/08 17:38	10/30/08 14:45	ARM
Radium-226/228 Combined	pCi/l	8.8±0.7	Calculation	0.3	11/20/08 17:41		JMK
Radium-226	pCi/l	8.8±0.7	EPA 903.1	0.09	11/13/08 16:15	10/31/08 13:30	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	11/20/08 17:41	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWI-2R2
Matrix	Groundwater
SAL Sample Number	86852.02
Date/Time Collected	10/30/08 11:12
Date/Time Received	10/30/08 13:41

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	22.30			10/30/08 11:11		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.12			10/30/08 11:11		LRW
Depth to Water (below Top of Casing)	ft.	7.85	DEP FS2211		10/30/08 11:11		LRW
Specific Conductance	umhos/cm	695	DEP FT1200		10/30/08 11:11		LRW
Water Elevation	ft., NGVD	2.27	DEP FS2211		10/30/08 11:11		LRW
Water Temperature	C	25.7	DEP FT1400		10/30/08 11:11		LRW
pH	Units	7.3	DEP FT1100		10/30/08 11:11		LRW
Dissolved Oxygen	mg/l	0.3	DEP FT1500		10/30/08 11:11		LRW
Turbidity	NTU	5.0	DEP FT1600		10/30/08 11:11		LRW
Inorganics							
Chloride	mg/l	61	EPA 300.0	0.05	11/07/08 18:19		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 09:51	EPL
Fluoride	mg/l	0.65	EPA 300.0	0.01	10/30/08 19:21		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 19:21		VWC
Total Dissolved Solids	mg/l	490	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.24	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.13	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/04/08 17:37	11/01/08 13:40	HWS
Cadmium	mg/l	0.0074	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Iron	mg/l	1.3	EPA 200.7	0.02	11/04/08 17:37	11/01/08 13:40	HWS
Sodium	mg/l	33	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 K	EPA 200.7	0.003	11/04/08 17:37	11/01/08 13:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	29±6.1	EPA 900.0	2.0	11/06/08 14:36	11/03/08 07:30	JMK
Radium-226/228 Combined	pCi/l	7.1±0.2	Calculation	0.3	11/20/08 17:41		JMK
Radium-226	pCi/l	7.1±0.6	EPA 903.1	0.06	11/13/08 16:15	10/31/08 13:30	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	11/20/08 17:41	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWI-7R**
Matrix	**Groundwater**
SAL Sample Number	**86852.03**
Date/Time Collected	**10/29/08 08:30**
Date/Time Received	**10/29/08 15:00**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.00			10/30/08 08:29		LRW
Reference Elevation (Top of Casing)	ft., NGVD	8.80			10/30/08 08:29		LRW
Depth to Water (below Top of Casing)	ft.	5.59	DEP FS2211		10/30/08 08:29		LRW
Specific Conductance	umhos/cm	606	DEP FT1200		10/30/08 08:29		LRW
Water Elevation	ft., NGVD	3.21	DEP FS2211		10/30/08 08:29		LRW
Water Temperature	C	24.8	DEP FT1400		10/30/08 08:29		LRW
pH	Units	6.6	DEP FT1100		10/30/08 08:29		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/30/08 08:29		LRW
Turbidity	NTU	19	DEP FT1600		10/30/08 08:29		LRW
Inorganics							
Chloride	mg/l	11	EPA 300.0	0.05	10/29/08 23:02		VWC
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.14	EPA 300.0	0.01	10/29/08 23:02		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/29/08 23:02		VWC
Total Dissolved Solids	mg/l	410	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.001 U	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.010 I	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/04/08 17:37	11/01/08 13:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Iron	mg/l	3.5	EPA 200.7	0.02	11/04/08 17:37	11/01/08 13:40	HWS
Sodium	mg/l	11	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/04/08 17:37	11/01/08 13:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	3.2±2.3	EPA 900.0	2.0	11/03/08 14:47	10/30/08 08:00	JMK
Radium-226/228 Combined	pCi/l	0.5±0.3	Calculation	0.4	11/20/08 14:11		JMK
Radium-226	pCi/l	0.5±0.3	EPA 903.1	0.09	11/13/08 12:30	10/30/08 11:30	ARM
Radium-228	pCi/l	0.4±0.2 U1	EPA RA-05	0.4	11/20/08 14:11	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-12R**
Matrix	**Groundwater**
SAL Sample Number	**86852.04**
Date/Time Collected	**10/30/08 10:43**
Date/Time Received	**10/30/08 13:41**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	22.60			10/30/08 10:42		LRW
Reference Elevation (Top of Casing)	ft., NGVD	9.49			10/30/08 10:42		LRW
Depth to Water (below Top of Casing)	ft.	6.21	DEP FS2211		10/30/08 10:42		LRW
Specific Conductance	umhos/cm	696	DEP FT1200		10/30/08 10:42		LRW
Water Elevation	ft., NGVD	3.28	DEP FS2211		10/30/08 10:42		LRW
Water Temperature	C	22.8	DEP FT1400		10/30/08 10:42		LRW
pH	Units	7.1	DEP FT1100		10/30/08 10:42		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/30/08 10:42		LRW
Turbidity	NTU	1.0	DEP FT1600		10/30/08 10:42		LRW
Inorganics							
Chloride	mg/l	73	EPA 300.0	0.05	11/07/08 18:36		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.032 I	EPA 300.0	0.01	10/30/08 19:38		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 19:38		VWC
Total Dissolved Solids	mg/l	500	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.001 U	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.010 I	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/04/08 17:37	11/01/08 13:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/04/08 17:37	11/01/08 13:40	HWS
Iron	mg/l	0.25	EPA 200.7	0.02	11/04/08 17:37	11/01/08 13:40	HWS
Sodium	mg/l	42	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/04/08 17:37	11/01/08 13:40	HWS
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/04/08 17:37	11/01/08 13:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	9.8	EPA 900.0	2.0	11/06/08 14:36	11/03/08 07:30	JMK
Radium-226/228 Combined	pCi/l	2.6±0.3	Calculation	0.4	11/20/08 17:41		JMK
Radium-226	pCi/l	2.6±0.3	EPA 903.1	0.07	11/13/08 16:15	10/31/08 13:30	ARM
Radium-228	pCi/l	0.4±0.2 U1	EPA RA-05	0.4	11/20/08 17:41	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-16
Matrix	Groundwater
SAL Sample Number	86852.05
Date/Time Collected	10/29/08 10:19
Date/Time Received	10/29/08 15:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	18.80			10/30/08 10:18		LRW
Reference Elevation (Top of Casing)	ft., NGVD	13.36			10/30/08 10:18		LRW
Depth to Water (below Top of Casing)	ft.	14.61	DEP FS2211		10/30/08 10:18		LRW
Specific Conductance	umhos/cm	23,600	DEP FT1200		10/30/08 10:18		LRW
Water Elevation	ft., NGVD	-1.25	DEP FS2211		10/30/08 10:18		LRW
Water Temperature	C	26.0	DEP FT1400		10/30/08 10:18		LRW
pH	Units	6.4	DEP FT1100		10/30/08 10:18		LRW
Dissolved Oxygen	mg/l	0.8	DEP FT1500		10/30/08 10:18		LRW
Turbidity	NTU	3.9	DEP FT1600		10/30/08 10:18		LRW
Inorganics							
Chloride	mg/l	9,200	EPA 300.0	0.05	11/07/08 18:53		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.48	EPA 300.0	0.01	10/30/08 18:30		VWC
Nitrate (as N)	mg/l	0.016 I	EPA 353.2	0.01	10/30/08 14:33		JSB
Total Dissolved Solids	mg/l	18,000	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.0017 I	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.039	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.0012 I	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	1.4	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	5,100	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	79±4.7	EPA 00-02	2.8	11/05/08 09:05	10/30/08 14:45	JMK
Radium-226/228 Combined	pCi/l	15±0.8	Calculation	0.4	11/20/08 14:11		JMK
Radium-226	pCi/l	13±0.8	EPA 903.1	0.09	11/13/08 12:30	10/30/08 11:30	ARM
Radium-228	pCi/l	1.5±0.3	EPA RA-05	0.4	11/20/08 14:11	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-21R
Matrix	Groundwater
SAL Sample Number	86852.06
Date/Time Collected	10/29/08 07:57
Date/Time Received	10/29/08 15:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.90			10/30/08 07:56		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.49			10/30/08 07:56		LRW
Depth to Water (below Top of Casing)	ft.	7.31	DEP FS2211		10/30/08 07:56		LRW
Specific Conductance	umhos/cm	819	DEP FT1200		10/30/08 07:56		LRW
Water Elevation	ft., NGVD	3.18	DEP FS2211		10/30/08 07:56		LRW
Water Temperature	C	27.8	DEP FT1400		10/30/08 07:56		LRW
pH	Units	6.5	DEP FT1100		10/30/08 07:56		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/30/08 07:56		LRW
Turbidity	NTU	0.70	DEP FT1600		10/30/08 07:56		LRW
Inorganics							
Chloride	mg/l	34	EPA 300.0	0.05	11/07/08 19:10		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.12	EPA 300.0	0.01	10/29/08 23:36		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/29/08 23:36		VWC
Total Dissolved Solids	mg/l	570	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.0030 I	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.017 I	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	2.4	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	22	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	15±3.5	EPA 900.0	2.0	11/03/08 14:48	10/30/08 08:00	JMK
Radium-226/228 Combined	pCi/l	2.6±0.4	Calculation	0.4	11/20/08 14:11		JMK
Radium-226	pCi/l	2.6±0.4	EPA 903.1	0.06	11/13/08 12:30	10/30/08 11:30	ARM
Radium-228	pCi/l	0.4±0.3 U1	EPA RA-05	0.4	11/20/08 14:11	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-27**
Matrix	**Groundwater**
SAL Sample Number	**86852.07**
Date/Time Collected	**10/29/08 09:40**
Date/Time Received	**10/29/08 15:00**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	12.80			10/30/08 09:38		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.00			10/30/08 09:38		LRW
Depth to Water (below Top of Casing)	ft.	9.31	DEP FS2211		10/30/08 09:38		LRW
Specific Conductance	umhos/cm	2,343	DEP FT1200		10/30/08 09:38		LRW
Water Elevation	ft., NGVD	1.69	DEP FS2211		10/30/08 09:38		LRW
Water Temperature	C	25.1	DEP FT1400		10/30/08 09:38		LRW
pH	Units	6.6	DEP FT1100		10/30/08 09:38		LRW
Dissolved Oxygen	mg/l	1.4	DEP FT1500		10/30/08 09:38		LRW
Turbidity	NTU	1.6	DEP FT1600		10/30/08 09:38		LRW
Inorganics							
Chloride	mg/l	550	EPA 300.0	0.05	11/07/08 19:27		MEJ
Cyanide, Total	mg/l	0.009 I	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.18	EPA 300.0	0.01	10/30/08 01:35		VWC
Nitrate (as N)	mg/l	0.12	EPA 300.0	0.01	10/30/08 01:35		VWC
Total Dissolved Solids	mg/l	1,500	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.0079	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.013 I	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.0010 I	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	0.83	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	320	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.012	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/08/08 12:31	10/31/08 11:30	SMW
Zinc	mg/l	0.0049 I	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	6.9±2.4	EPA 00-02	2.8	11/05/08 09:06	10/30/08 14:45	JMK
Radium-226/228 Combined	pCi/l	1.0±0.2	Calculation	0.3	11/20/08 14:10		JMK
Radium-226	pCi/l	1.0±0.2	EPA 903.1	0.07	11/13/08 12:30	10/30/08 11:30	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	11/20/08 14:10	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-28**
Matrix	**Groundwater**
SAL Sample Number	**86852.08**
Date/Time Collected	**10/30/08 08:25**
Date/Time Received	**10/30/08 13:41**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.60			10/30/08 08:24		LRW
Reference Elevation (Top of Casing)	ft., NGVD	8.07			10/30/08 08:24		LRW
Depth to Water (below Top of Casing)	ft.	6.48	DEP FS2211		10/30/08 08:24		LRW
Specific Conductance	umhos/cm	6,850	DEP FT1200		10/30/08 08:24		LRW
Water Elevation	ft., NGVD	1.59	DEP FS2211		10/30/08 08:24		LRW
Water Temperature	C	22.5	DEP FT1400		10/30/08 08:24		LRW
pH	Units	7.0	DEP FT1100		10/30/08 08:24		LRW
Dissolved Oxygen	mg/l	0.3	DEP FT1500		10/30/08 08:24		LRW
Turbidity	NTU	4.4	DEP FT1600		10/30/08 08:24		LRW
Inorganics							
Chloride	mg/l	2,000	EPA 300.0	0.05	11/07/08 19:44		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.11	EPA 300.0	0.01	10/30/08 19:55		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 19:55		VWC
Total Dissolved Solids	mg/l	4,400	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.0030 I	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.034	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	2.0	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	1,200	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	29±3.5	EPA 00-02	2.8	11/05/08 17:38	11/03/08 08:00	JMK
Radium-226/228 Combined	pCi/l	8.7±0.7	Calculation	0.4	11/20/08 17:41		JMK
Radium-226	pCi/l	8.0±0.7	EPA 903.1	0.06	11/13/08 16:15	10/31/08 13:30	ARM
Radium-228	pCi/l	0.7±0.3	EPA RA-05	0.4	11/20/08 17:41	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-29**
Matrix	**Groundwater**
SAL Sample Number	**86852.09**
Date/Time Collected	**10/29/08 11:17**
Date/Time Received	**10/29/08 15:00**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	26.70			10/30/08 11:16		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.56			10/30/08 11:16		LRW
Depth to Water (below Top of Casing)	ft.	10.82	DEP FS2211		10/30/08 11:16		LRW
Specific Conductance	umhos/cm	2,222	DEP FT1200		10/30/08 11:16		LRW
Water Elevation	ft., NGVD	0.74	DEP FS2211		10/30/08 11:16		LRW
Water Temperature	C	24.9	DEP FT1400		10/30/08 11:16		LRW
pH	Units	6.3	DEP FT1100		10/30/08 11:16		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/30/08 11:16		LRW
Turbidity	NTU	0.40	DEP FT1600		10/30/08 11:16		LRW
Inorganics							
Chloride	mg/l	66	EPA 300.0	0.05	11/07/08 20:01		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.074	EPA 300.0	0.01	10/30/08 02:09		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 02:09		VWC
Total Dissolved Solids	mg/l	2,100	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.0053	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.017 I	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	2.4	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	41	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	23±3.0	EPA 00-02	2.8	11/05/08 15:41	10/30/08 14:45	JMK
Radium-226/228 Combined	pCi/l	3.8±0.3	Calculation	0.4	11/20/08 14:12		JMK
Radium-226	pCi/l	2.7±0.4	EPA 903.1	0.06	11/13/08 14:20	10/30/08 12:30	ARM
Radium-228	pCi/l	1.1±0.3	EPA RA-05	0.4	11/20/08 14:12	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-1F2
Matrix	Groundwater
SAL Sample Number	86852.10
Date/Time Collected	10/29/08 12:05
Date/Time Received	10/29/08 15:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	16.40			10/30/08 12:03		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.64			10/30/08 12:03		LRW
Depth to Water (below Top of Casing)	ft.	11.73	DEP FS2211		10/30/08 12:03		LRW
Specific Conductance	umhos/cm	2,812	DEP FT1200		10/30/08 12:03		LRW
Water Elevation	ft., NGVD	0.09	DEP FS2211		10/30/08 12:03		LRW
Water Temperature	C	24.8	DEP FT1400		10/30/08 12:03		LRW
pH	Units	6.2	DEP FT1100		10/30/08 12:03		LRW
Dissolved Oxygen	mg/l	0.6	DEP FT1500		10/30/08 12:03		LRW
Turbidity	NTU	8.9	DEP FT1600		10/30/08 12:03		LRW
Inorganics							
Chloride	mg/l	310	EPA 300.0	0.05	11/07/08 20:18		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.20	EPA 300.0	0.01	10/30/08 02:26		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 02:26		VWC
Total Dissolved Solids	mg/l	2,200	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.0068	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.015 I	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	35	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	260	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.093	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	9.1±2.5	EPA 00-02	2.8	11/05/08 17:37	10/30/08 14:45	JMK
Radium-226/228 Combined	pCi/l	1.5±0.4	Calculation	0.4	11/20/08 14:12		JMK
Radium-226	pCi/l	1.5±0.4	EPA 903.1	0.09	11/13/08 14:20	10/30/08 12:30	ARM
Radium-228	pCi/l	0.4±0.2 U1	EPA RA-05	0.4	11/20/08 14:12	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-29 Duplicate**
Matrix	**Groundwater**
SAL Sample Number	**86852.11**
Date/Time Collected	**10/29/08 11:17**
Date/Time Received	**10/29/08 15:00**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	26.70			10/30/08 11:16		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.56			10/30/08 11:16		LRW
Depth to Water (below Top of Casing)	ft.	10.82	DEP FS2211		10/30/08 11:16		LRW
Specific Conductance	umhos/cm	2,222	DEP FT1200		10/30/08 11:16		LRW
Water Elevation	ft., NGVD	0.74	DEP FS2211		10/30/08 11:16		LRW
Water Temperature	C	24.9	DEP FT1400		10/30/08 11:16		LRW
pH	Units	6.3	DEP FT1100		10/30/08 11:16		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/30/08 11:16		LRW
Turbidity	NTU	0.40	DEP FT1600		10/30/08 11:16		LRW
Inorganics							
Chloride	mg/l	64	EPA 300.0	0.05	11/07/08 21:26		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.078	EPA 300.0	0.01	10/30/08 02:43		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 02:43		VWC
Total Dissolved Solids	mg/l	2,100	EPA 160.1	10	11/03/08 14:30		MTU
Metals							
Arsenic	mg/l	0.0050	EPA 206.2	0.001	11/04/08 12:11	10/31/08 11:30	MKB
Barium	mg/l	0.017 I	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	2.3	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	44	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/05/08 10:35	10/31/08 11:30	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	10/31/08 11:30	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34	10/31/08 11:30	MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	17±2.8	EPA 00-02	2.8	11/05/08 17:38	11/03/08 08:00	JMK
Radium-226/228 Combined	pCi/l	3.7±0.4	Calculation	0.4	11/20/08 14:12		JMK
Radium-226	pCi/l	2.9±0.4	EPA 903.1	0.05	11/13/08 14:20	10/30/08 12:30	ARM
Radium-228	pCi/l	0.8±0.3	EPA RA-05	0.4	11/20/08 14:12	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWB-30**
Matrix	**Groundwater**
SAL Sample Number	**86852.12**
Date/Time Collected	**10/29/08 12:32**
Date/Time Received	**10/29/08 15:00**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	18.70			10/30/08 12:31		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.67			10/30/08 12:31		LRW
Depth to Water (below Top of Casing)	ft.	5.27	DEP FS2211		10/30/08 12:31		LRW
Specific Conductance	umhos/cm	664	DEP FT1200		10/30/08 12:31		LRW
Water Elevation	ft., NGVD	2.4	DEP FS2211		10/30/08 12:31		LRW
Water Temperature	C	24.7	DEP FT1400		10/30/08 12:31		LRW
pH	Units	6.7	DEP FT1100		10/30/08 12:31		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/30/08 12:31		LRW
Turbidity	NTU	1.00	DEP FT1600		10/30/08 12:31		LRW
Inorganics							
Chloride	mg/l	76	EPA 300.0	0.05	11/07/08 21:43		MEJ
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/05/08 16:00	11/03/08 13:07	EPL
Fluoride	mg/l	0.10	EPA 300.0	0.01	10/30/08 03:00		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 03:00		VWC
Total Dissolved Solids	mg/l	440	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.0063	EPA 206.2	0.001	11/11/08 11:53	11/06/08 08:00	MKB
Barium	mg/l	0.011 I	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	1.4	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	47	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/07/08 09:28	11/06/08 08:00	MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10	11/06/08 08:00	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/08/08 12:31	11/06/08 08:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	11±3.6	EPA 900.0	2.0	11/03/08 14:48	10/30/08 08:00	JMK
Radium-226/228 Combined	pCi/l	1.8±0.3	Calculation	0.4	11/20/08 14:12		JMK
Radium-226	pCi/l	1.2±0.3	EPA 903.1	0.03	11/13/08 14:20	10/30/08 12:30	ARM
Radium-228	pCi/l	0.6±0.3	EPA RA-05	0.4	11/20/08 14:12	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**Equipment Blank**
Matrix	**Reagent Water**
SAL Sample Number	**86852.13**
Date/Time Collected	**10/29/08 07:35**
Date/Time Received	**10/29/08 15:00**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Specific Conductance	umhos/cm	5	DEP FT1200		10/30/08 07:35		LRW
Water Temperature	C	8.2	DEP FT1400		10/30/08 07:35		LRW
pH	Units	7.2	DEP FT1100		10/30/08 07:35		LRW
Dissolved Oxygen	mg/l	3.2	DEP FT1500		10/30/08 07:35		LRW
Turbidity	NTU	0.05	DEP FT1600		10/30/08 07:35		LRW
Inorganics							
Chloride	mg/l	0.099 I	EPA 300.0	0.05	10/30/08 03:17		VWC
Cyanide, Total	mg/l	0.005 U	EPA 335.2	0.005	11/03/08 14:15	10/31/08 13:45	JSB
Fluoride	mg/l	0.078	EPA 300.0	0.01	10/30/08 03:17		VWC
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/30/08 03:17		VWC
Total Dissolved Solids	mg/l	60	EPA 160.1	10	11/03/08 14:30	10/30/08 13:00	MTU
Metals							
Arsenic	mg/l	0.001 U	EPA 206.2	0.001	11/06/08 10:29		MKB
Barium	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53		LCB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/06/08 14:53	11/05/08 12:55	LCB
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53		LCB
Copper	mg/l	0.005 U	EPA 200.7	0.005	11/06/08 14:53	11/05/08 12:55	LCB
Iron	mg/l	0.02 U	EPA 200.7	0.02	11/06/08 14:53	11/05/08 12:55	LCB
Sodium	mg/l	0.1 U	EPA 200.7	0.1	11/03/08 15:18		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	11/06/08 14:53	11/05/08 12:55	LCB
Lead	mg/l	0.001 U	EPA 239.2	0.001	11/07/08 09:28		MKB
Antimony	mg/l	0.001 U	EPA 204.2	0.001	11/11/08 20:10		MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	11/06/08 10:34		MKB
Zinc	mg/l	0.003 U	EPA 200.7	0.003	11/06/08 14:53	11/05/08 12:55	LCB
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.0±0.9 U1	EPA 900.0	2.0	11/03/08 14:48	10/30/08 08:00	JMK
Radium-226/228 Combined	pCi/l	0.3±0.2 U1	Calculation	0.3	11/20/08 17:40		JMK
Radium-226	pCi/l	0.08±0.2 U1	EPA 903.1	0.08	11/13/08 14:20	10/30/08 12:30	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	11/20/08 17:40	11/16/08 11:00	JMK

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 21, 2008
Project No: 86852

Laboratory Report

Footnotes

*	Test results presented in this report meet all the requirements of the NELAC standards.
**	A statement of estimated uncertainty of test results is available upon request.
***	For methods marked with ***, all QC criteria have been met for this method which is equivalent to a SAL certified method.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
K	Analyte was undetected. Indicated concentration is method detection limit multiplied by sample dilution factor.
U	Analyte was undetected. Indicated concentration is method detection limit.
U1	Analyte was not detected; indicated concentration is method detection limit. Radiochemistry MDL is sample specific and matrix dependent.

FDOH Laboratory No. E84129
NELAP Accredited

Approved By: **Francis I. Daniels, Laboratory Director**
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 86852

Client Name: Progress Energy, Inc.

Contact / Phone: Ron Johnson

Project Name / Location: Quarterly Monitoring Well Analyses - Crystal River Site

Samplers: (Signature) Jay Wind

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	1LP, Cool 4°C Chloride, TDS, NO_3, F	250ml P, HNO_3 Cu, Fe, Na, Sb, As, Ba, Be, Cd, Pb, Ni, Tl, Zn	250mL P, NaOH Cyanide	1/2 Gallon Jug, HNO_3 Gross alpha, Radium 226, Radium 228, Combined 226+228					No. of Containers (Total per each location)
01	MWC-1	10/30/08	0848	GW		X	1	1	1	2					5
02	MWI-2R2	↓	11:12	GW		X	1	1	1	2					5
03	MWI-7R	10/29/08	0850	GW		X	1	1	1	2					5
04	MWC-12R	10/30/08	10:43	GW		X	1	1	1	2					5
05	MWC-16	10/29/08	10:19	GW		X	1	1	1	2					5
06	MWC-21R	↓	0757	GW		X	1	1	1	2					5
07	MWC-27	↓	0940	GW		X	1	1	1	2					5
08	MWC-28	10/30/08	0825	GW		X	1	1	1	2					5
09	MWC-29	10/29/08	11:17	GW		X	1	1	1	2					5
10	MWC-IF2	↓	1205	GW		X	1	1	1	2					5
11	MW-29 Duplicate	↓	11:17	GW		X	1	1	1	2					5
12	MWB-30	↓	1232	GW		X	1	1	1	2					5
13	Equipment Blank	↓	0735	R		X	1	1	1	2					5

Containers Prepared/ Relinquished:	Date/Time: 1500 10-07-08	Received: Jay Wind	Date/Time: 10/28/08 1400
Relinquished: Jay Wind	Date/Time: 10/29/08 1500	Received:	Date/Time:
Relinquished: Jay Wind	Date/Time: 10/30/08 1341	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N N/A

Samples intact upon arrival? Y N N/A

Received on ice? Temp_____ Y N N/A

Proper preservatives indicated? Y N N/A

Rec'd within holding time? Y N N/A

Volatiles rec'd w/out headspace? Y N N/A

Proper containers used? Y N N/A

Instructions / Remarks

Field Measurements: Temperature, pH, Specific Conductance, Turbidity, Water Level, DO

Client needs to meet Drinking Water Limits.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/31/08	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-1	Sample ID	.01	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	4.45	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	20.10	REFERENCE ELEVATION (NGVD)	7.20	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.75	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (20.10 -) 0.1632

ONE WELL VOLUME	2.55	1/4 WELL VOLUME	0.63	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0835	PURGE TIME END	0847	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0841	3.0	3.0	0.50	4.49	7.1	23.0	3220	0.23	4.39	Tannic	surfa
0844	1.50	4.50	"	4.49	7.1	23.1	3217	0.14	1.07	"	"
0847	1.50	6.0	"	4.49	7.1	23.1	3208	0.13	0.65	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	[signature]		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT			SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0848	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS			
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	CLEAR								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/30/08	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWI-2R	Sample ID	.02	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	7.85	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	22.30	REFERENCE ELEVATION (NGVD)	10.12	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.27	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (22.30 -) 0.1632

ONE WELL VOLUME	2.35	1/4 WELL VOLUME		3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	11:00	PURGE TIME END	11:11	TOTAL PURGED	5.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
11:05	2.50	2.50	0.50	7.91	7.3	25.7	694	0.24	8.28	clear	None
11:08	1.50	4.0	"	7.90	7.3	25.7	695	0.24	6.74	"	"
11:11	1.50	5.50	"	7.90	7.3	25.7	695	0.24	5.03	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	[signature]		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	11:12	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/29/08	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWI-7R	Sample ID	.03	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	4.0	WELL CAPACITY (gal/ft)	0.6528	Screen Interval (Feet)	UNK	To	UNK	Static Depth to Water (Feet)	5.59
PURGE PUMP CODE	PP GP IBP								
TOTAL WELL DEPTH (Feet)	21.00	REFERENCE ELEVATION (NGVD)	8.80	GROUND WATER ELEVATION (REFERENCE-STATIC)	3.21			TUBING DIAMETER (Inches)	
TUBING CAPACITY (gal/ft)									

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (21.00 -) x 0.6528

ONE WELL VOLUME	2.57	1/4 WELL VOLUME	0.62	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0512	PURGE TIME END	0529	TOTAL PURGED	4.25

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0823	2.75	2.75	0.25	5.63	6.6	24.7	604	0.22	21.8	clear	none
0826	0.75	3.50	"	5.63	6.6	24.8	607	0.20	19.0	"	"
0829	0.75	4.25	"	5.63	6.6	24.8	606	0.19	18.7	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Tony Wood		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0530	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/30/08	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-12R	Sample ID	.04	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	6.21	PURGE PUMP CODE (PP) GP IBP
TOTAL WELL DEPTH (Feet)	22.60	REFERENCE ELEVATION (NGVD)	9.49	GROUND WATER ELEVATION (REFERENCE-STATIC)	3.28		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (22.60 -) * 0.1632

ONE WELL VOLUME	2.67	1/4 WELL VOLUME	0.66	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	10.90	PURGE TIME END	1042	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1036	3.0	3.0	0.50	6.24	7.1	22.8	689	0.31	3.08	Tinted ~~Clear~~	None
1039	1.50	4.50	"	6.25	7.1	22.8	692	0.26	1.33	"	"
1042	1.50	6.0	"	6.25	7.1	22.8	696	0.21	1.02	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Larry R. Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	1043	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/29/08	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-16	Sample ID	.05	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	14.61	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	18.80	REFERENCE ELEVATION (NGVD)	13.36	GROUND WATER ELEVATION (REFERENCE-STATIC)	-1.25	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3.3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (18.80 -) * 0.1632

ONE WELL VOLUME	0.68	1/4 WELL VOLUME		3 WELL VOLUMES		5 WELL VOLUMES			

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME			
INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1004	PURGE TIME END	1018	TOTAL PURGED	2.25

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1012	0.75	0.75	0.25	14.66	6.4	24.0	23570	1.01	5.16	Clear	none
1015	0.75	1.50	"	14.66	6.4	24.0	23520	0.56	4.72	"	"
1018	0.75	2.25	"	14.66	6.4	24.0	23600	0.51	3.93	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)					SAMPLER(S) SIGNATURES:	Tony Ward			
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT		SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)			
SAMPLING INITIATED	1019	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS			
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/27/08	SAL Project #	810852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-21R	Sample ID	.06	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	7.31	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	21.90	REFERENCE ELEVATION (NGVD)	10.49	GROUND WATER ELEVATION (REFERENCE-STATIC)	3.18		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (21.90 -) * 0.1632

ONE WELL VOLUME	2.38	1/4 WELL VOLUME		3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0745	PURGE TIME END	0756	TOTAL PURGED	5.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0750	2.50	2.50	0.50	7.35	6.4	24.7	810	0.44	1.07	Tank	None
0753	1.50	4.00	"	7.35	6.4	24.7	812	0.24	0.95	"	"
0756	1.50	5.50	"	7.35	6.5	27.8	814	0.21	0.71	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Jay Wal		
TUBING MATERIAL CODE (CIRCLE ONE)		PP PE NP (TL) TT		SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0757	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?		(Y) N N/A	LIST PRESERVATIVES ADDED						
WEATHER CONDITIONS		Clear							
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/29/08	SAL Project #	8/0852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-27	Sample ID	.07	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	9.31	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	12.80	REFERENCE ELEVATION (NGVD)	11.00	GROUND WATER ELEVATION (REFERENCE-STATIC)	1.69		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY =				(	12.80	-		) *	0.1632
ONE WELL VOLUME	0.56	1/4 WELL VOLUME		3 WELL VOLUMES	1.70		5 WELL VOLUMES		

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME			EQUIPMENT VOLUME		
INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0429	PURGE TIME END	0958	TOTAL PURGED	2.25

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0432	0.75	0.75	0.25	8.72	6.6	25.1	2318	1.43	5.07	clear	sulfur
0935	0.75	1.50	"	8.72	6.6	25.1	2328	1.40	2.17	"	"
0938	0.75	2.25	"	8.72	6.6	25.1	2343	1.39	1.64	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Ky Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0940	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	CLEAR								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/30/08	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-28	Sample ID	08	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK	To	UNK	Static Depth to Water (Feet)	6.48	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	21.60	REFERENCE ELEVATION (NGVD)	8.07	GROUND WATER ELEVATION (REFERENCE-STATIC)		1.59		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (21.60 -) · 0.1632

ONE WELL VOLUME	2.46	1/4 WELL VOLUME	0.61	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0813	PURGE TIME END	0824
TOTAL PURGED	5.50						

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0818	2.50	2.50	0.50	6.51	7.0	22.5	6860	0.32	5.27	TAN	Sulfur
0821	1.50	4.0	"	6.51	7.0	22.5	6860	0.27	4.90	"	"
0824	1.50	5.50	"	6.51	7.0	22.5	6850	0.27	4.39	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	[signature]		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0825	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS	
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A						
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	CLEAR						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	11/29/05	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-29	Sample ID	.09 / .11	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	10.82	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	26.70	REFERENCE ELEVATION (NGVD)	11.56	GROUND WATER ELEVATION (REFERENCE-STATIC)	0.74		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (26.70 -) 0.1632

ONE WELL VOLUME	2.59	1/4 WELL VOLUME		3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	11:04	PURGE TIME END	11:16	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
11:10	3.0	3.0	0.50	10.85	6.3	24.9	2231	0.29	3.32	Tannic	None
11:13	1.50	4.50	"	10.85	6.3	24.9	2223	0.27	2.14	"	"
11:16	1.50	6.0	"	10.85	6.3	24.9	2222	0.27	0.41	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	[signature]		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	11:17	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS			
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/29/08	SAL Project #	86852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-IF2	Sample ID	.10	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	11.73	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	16.40	REFERENCE ELEVATION (NGVD)	11.64	GROUND WATER ELEVATION (REFERENCE-STATIC)	0.04	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (16.40 -) * 0.1632

ONE WELL VOLUME	0.76	1/4 WELL VOLUME		3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1153	PURGE TIME END	1205	TOTAL PURGED	2.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1157	1.0	1.0	0.15	11.75	6.2	24.8	2790	0.70	14.01	Tanic	None
1200	0.75	1.75	"	11.75	6.2	24.8	2810	0.65	10.71	"	"
1205	0.75	2.50	"	11.75	6.2	24.8	2812	0.60	8.93	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	[illegible]		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	1205	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/29/05	SAL Project #	860852	Project Name	Quarterly Monitor Well Sampling
Well Number	MWB-30	Sample ID	.12	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (inches)	2.0	WELL CAPACITY (gal/ft)	0.1652	Screen Interval (Feet)	N/A To N/A	Static Depth to Water (Feet)	5.27	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	18.70	REFERENCE ELEVATION (NGVD)	7.67	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.41	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3.3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (18.70 - N/A) * 0.1652

ONE WELL VOLUME	2.19	1/4 WELL VOLUME	0.54	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)	N/A	FINAL TUBING LEGNTH IN WELL (FEET)	N/A	PURGE TIME START	1228	PURGE TIME END	1231	TOTAL PURGED	(N/A) 0

	TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1225	1225	2.50	2.50	0.50	15.31	6.7	24.7	66.2	0.20	2.49	clear	none
1228	1228	1.50	4.0	"	15.31	6.7	24.7	66.4	0.17	1.07		
1231	1231	1.50	5.50	"	15.31	6.7	24.7	66.4	0.16	0.98		

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Zay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)		PP PE NP TL TT		SAMPLE TUBING LEGNTH IN WELL (FEET)		N/A	SAMPLE PUMP FLOW RATE (mL/min)		N/A
SAMPLING INITIATED	1232	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS			
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/29/08	SAL Project #	8c852	Project Name	Quarterly Monitor Well Sampling
Well Number	Equipment Blank	Sample ID	.13	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	N/A	WELL CAPACITY (gal/ft)	N/A	Screen Interval (Feet)	N/A To N/A	Static Depth to Water (Feet)	N/A	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	N/A	REFERENCE *ELEVATION (NGVD)	N/A	GROUND WATER ELEVATION (REFERENCE-STATIC)	N/A	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (N/A - N/A) * N/A

ONE WELL VOLUME	N/A	1/4 WELL VOLUME	N/A	3 WELL VOLUMES	N/A	5 WELL VOLUMES	N/A

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)	N/A	FINAL TUBING LEGNTH IN WELL (FEET)	N/A	PURGE TIME START	N/A	PURGE TIME END	N/A	TOTAL PURGED	N/A

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0735					7.2	8.2	5.1	3.21	0.07	Clear	None

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Zog Wing		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT			SAMPLE TUBING LEGNTH IN WELL (FEET)		N/A	SAMPLE PUMP FLOW RATE (mL/min)	N/A	
SAMPLING INITIATED	0735	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS			
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

RAI 4 2009 Industrial Waste Water Reports

12S20Q

1

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

February 25, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
~~May 2008~~ Jan 2009

Enclosed is the monthly monitoring report for above referenced permit for the month of January 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 563-5175 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/01/01 To: 2009/01/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.34	0.48	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatcher	(352) 563-4484	2/24/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

12520 A

2

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

March 26, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of February 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 563-5175 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2009/02/01 To: 2009/02/28

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.33	0.41	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	3/17/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

fp 12520Q

3

Progress Energy

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

April 26, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
1st Quarter - 2009

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228.

Sincerely,

Larry E. Hatcher

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/03/01 To: 2009/03/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.33	0.40	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Daily Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatch	(352) 563-4484	4/23/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2009/03/01 To: 2009/03/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	***	****	8.2	8.2	SU	0	Quarterly	In-situ
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	***	****	****	460.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	***	****	****	864.0	UMHO/CM	0	Quarterly	In-situ
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	In-situ
Oil and Grease	Sample Measurement	****	****	***	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	***	****	****	88.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatcher	(352) 563-4484	4/23/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/03/01 To: 2009/03/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	14.0	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	2.8	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	< 10	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	100.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/03/01 To: 2009/03/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	***	****	****	0.012	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.004	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	***	****	****	14.00	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/03/01 To: 2009/03/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	***	****	****	< 10	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	***	****	****	60.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/03/01 To: 2009/03/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	***	****	****	0.021	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	1.0	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	91.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	58.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	716	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.70	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.23	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.5	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.9	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E Hatch	(352) 563-4484	09/04/16

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.066	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.42	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	920.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	4.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.041	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	540.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,900	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	3,699	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.10	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.57	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	46.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	11.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.06	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 03/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	76.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.11	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.085	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	49.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	699	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.58	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	12.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.5	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.78	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 03/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	8.6	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	10,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	6,800.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	17,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	23,490	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	66.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.042	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	5.0 U	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.6	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.066	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	78.26	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.7	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	29.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.70	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.110	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	19.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	470	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	769	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.36	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	16.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.4	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	73.58	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	520.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.02	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	290.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,062	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.10	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.67	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.7	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.2	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	6.8	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.5	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.130	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	68.00	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,100.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.130	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,400.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	6,940	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	5.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.28	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	31.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.033	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.085	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	70.16	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling X Yes ☐ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	3.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	130.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.270	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	90.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,800	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,496	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.60	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.13	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	16.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.6	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.019	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.074	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.10	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	320.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	25.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.049	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	250.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,622	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	6.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.2	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.4	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	77.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.250	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	75.92	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.2	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	210.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	130.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	890	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	1,402	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	7.50	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045		Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	32.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.180	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 03/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	6.8	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.470	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	70.52	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.4	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.071	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	12.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	350	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	613	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	14.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.69	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 03/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.140	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	72.86	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

FP 12520Q

4

Progress Energy

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

May 27, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
1st Quarter – 2009-Revised

Enclosed is the revised monitoring report for above referenced permit. This submittal includes the quarterly sampling results required for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

The reporting software we use inadvertently left out one parameter monitored, Alpha Gross Particle Activity. Also, the detection limit for copper was reduced from 0.005mg/l to 0.003mg/l.

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228.

Sincerely,

Larry E. Hatcher

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	1.0	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	91.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	58.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	716	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.70	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.23	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.5	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.9	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	09/05/26

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.066	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.42	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	920.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	4.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.041	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	540.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,900	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	3,699	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.10	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.57	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	46.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	11.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.06	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling X **Yes** ___ **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.5	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	76.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.11	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.085	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	49.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	699	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.58	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	12.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 01/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.5	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.78	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] **Yes** [ ] **No**

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	8.6	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	10,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	6,800.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	17,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	23,490	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	66.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.042	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 To: 04/01/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	5.0 U	100.0	ug/L	Grab	Quarterly	5	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.6	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.066	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	78.26	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.7	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	29.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.70	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.110	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	19.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	470	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	769	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.36	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	16.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.4	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	73.58	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	0.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	520.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.02	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	290.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,062	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.10	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.67	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.7	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.2	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 01/01/2009 To: 04/01/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	6.8	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.5	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.130	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	68.00	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 01/01/2009 To: 04/01/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,100.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.130	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,400.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	6,940	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	5.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.28	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	31.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.033	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 01/01/2009 To: 04/01/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.085	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	70.16	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Radium 226 and 228	11503	3.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	130.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.270	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	90.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,800	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,496	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.60	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.13	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	16.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.6	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 01/01/2009 To: 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.019	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.074	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.10	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	320.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	25.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.049	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	250.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,622	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	6.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.2	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.4	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	77.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.250	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	75.92	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MW-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.2	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	210.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	130.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	890	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	1,402	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	7.50	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.00	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	17.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	32.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.180	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/16/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	6.8	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.470	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	70.52	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

Note - water elevation estimated due to inaccurate reference elevation.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MW-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 01/01/2009 To: 04/01/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.4	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.071	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	12.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	350	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	613	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	14.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.69	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 01/28/2009
Monitoring Well ID: MW-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: **From:** 01/01/2009 **To:** 04/01/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (U/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.140	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	72.86	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

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Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

May 20, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

12520 9

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of April 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section,, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042, MAC CN77
St.Petersburg, FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
REPORT: Monthly
CLASS SIZE:
GROUP: Industrial
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St., Crystal River, FL 34428
COUNTY: Citrus

NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2009/04/01 To: 2009/04/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.307	0.381	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatch		5/20/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

Progress Energy

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Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

June 25, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of May 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/05/01 To: 2009/05/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.33	0.49	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.91 (Mo. Avg)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	6/26/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

125 20-Q

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Progress Energy

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

July 24, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
2nd Quarter - 2009

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228.

Sincerely,

Larry E. Hatcher

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/06/01 To: 2009/06/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.36	0.65	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatcher	(352) 563-4484	7/26/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/06/01 To: 2009/06/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	***	****	7.3	7.3	SU	0	Quarterly	In-situ
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	***	****	****	570.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	***	****	****	980.0	UMHO/CM	0	Quarterly	In-situ
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	In-situ
Oil and Grease	Sample Measurement	****	****	***	****	****	< 1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	***	****	****	90.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatcher	(352) 563-4484	7/26/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 8551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/06/01 To: 2009/06/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	2.8	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	0.8	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	< 10	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	41.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2009/06/01 To: 2009/06/30

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	****	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	****	****	****	0.003	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 0.004	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	****	****	****	4.20	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/06/01 To: 2009/06/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	***	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	***	****	****	1.4	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	***	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	***	****	****	240.0	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	***	****	****	48.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/06/01 To: 2009/06/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	****	****	****	< 5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	****	****	****	0.056	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	2.2	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	190.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.80	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	85.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	530	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	976	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.23	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	6.6	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.5	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatcher	(352) 563-4484	09/07/21

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.060	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	68.72	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	11.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	960.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	5.70	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	480.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,900	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	3,194	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.09	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	31.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	15.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	69.98	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.7	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	80.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.30	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	41.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	390	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	679	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	4.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.31	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	4.5	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.087	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	70.16	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	16.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.3	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	5,900.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	21,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	28,520	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.75	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.71	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	50.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.046	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.6	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	78.98	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.6	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	36.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.3	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	21.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	502	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	777	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.33	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.6	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.5	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.093	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.24	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.9	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	670.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.02	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.360	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	340.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,600	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,964	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.60	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.04	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.3	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.8	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	8.5	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	1.7	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.150	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.78	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.3	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,100.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.4	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,100.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	6,700	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	4.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.06	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	18.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.044	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling X: Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.083	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	68.36	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	180.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.1	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	97.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,559	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.50	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.49	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	17.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.5	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.023	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.016	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.085	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	74.66	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.9	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	310.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	27.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.2	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	250.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,700	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,431	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	6.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.20	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.8	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	8.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	72.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.038	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.280	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	74.84	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01. FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling X: Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.0	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	270.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.3	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	140.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,030	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	1,611	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	8.70	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.36	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	27.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	190.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.190	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01. FS 2200 Groundwater Sampling. Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24. Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.014	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.380	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	69.62	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	11.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.60	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.3	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	8.3	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	350	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	602	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	19.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.58	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 04/15/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 04/01/2009 To: 06/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	TNTC	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.140	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	72.32	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

12520Q

8

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

August 24, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of July 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/07/01 To: 2009/07/31

PARAMETER			QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow		Sample Measurement	0.39	0.63	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050	1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1												

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	8/25/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

12520Q
9

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

September 20, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of August 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2009/08/01 To: 2009/08/31

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER				QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow			Sample Measurement	0.36	0.49	MGD	****	****	****	***	0	Daily	Meter
PARM Code	50050	1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter
Mon. Site No	FLW-1												

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	9/14/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

10

Progress Energy

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

October 26, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960
3rd Quarter - 2009

Enclosed is the monitoring report for above referenced permit. This submittal includes the current monthly flow monitoring and quarterly sampling requirements for the land application system (G-001), and quarterly sampling requirements for site groundwater monitoring wells.

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228.

Sincerely,

Larry E. Hatcher

Larry E. Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/09/01 To: 2009/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.38	0.61	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	0.91 (Mo. Avg.)	Report (Day. Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	10/26/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/09/01 To: 2009/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	***	****	8.0	8.0	SU	0	Quarterly	In-situ
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	***	****	****	520.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	***	****	****	1,000.0	UMHO/CM	0	Quarterly	In-situ
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	In-situ
Oil and Grease	Sample Measurement	****	****	***	****	****	1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	***	****	****	160.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	10/26/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/09/01 To: 2009/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	< 2.8	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	0.6	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	< 10	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	6.5	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/09/01 To: 2009/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	***	****	****	0.003	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	***	****	****	< 0.004	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	***	****	****	0.48	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/09/01 To: 2009/09/30

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	***	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	***	****	****	0.9	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	***	****	****	< 1	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	***	****	****	50.0	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	***	****	****	95.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE:
MONITORING PERIOD--From: 2009/09/01 To: 2009/09/30

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	***	****	****	5.0	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	***	****	****	0.003	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	2.4	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	180.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	97.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	570	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	939	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.24	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	7.3	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.8	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatcher	(352) 563-4484	09/10/20

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	74.30	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	5.7	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	540.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	270.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,200	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	1,932	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	3.60	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.94	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	19.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	8.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.049	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.96	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	87.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.17	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	43.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	685	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	5.23	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	10.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.040	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.96	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	12.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	12,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	6,600.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	21,000	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	30,270	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.80	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.05	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	40.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	5.5	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.035	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve. Also, please note this well exceeded Cd and Tl. Previously this well has been at or below detection limit.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	5.3	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	4.9	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.560	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	80.42	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross-alpha this quarter. We are currently discussing with FDEP to resolve. Also, please note this well exceeded Cd and Tl. Previously this well has been at or below detection limit.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.3	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	28.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.80	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	18.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	450	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	699	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.30	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.68	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	8.3	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.140	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	74.30	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.1	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	500.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.390	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	280.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,796	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.89	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.8	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.7	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We exceeded the limits on r226/228, sodium and gross alpha this quarter. W are currently in the process of resolving this issue with FDEP.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	4.8	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.3	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.190	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	80.24	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24. Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We exceeded the limits on r226/228, sodium and gross alpha this quarter. W are currently in the process of resolving this issue with FDEP.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	10.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	2,100.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.042	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,100.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,400	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	6,540	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	7.30	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.76	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	35.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.040	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.120	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	71.60	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	4.2	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	140.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.40	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.5	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	74.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,367	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.96	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	15.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	4.7	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	4.8	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.078	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	75.20	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.4	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	270.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	23.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.4	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	200.0	160	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,080	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	2,586	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.40	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.23	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.2	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.1	10.0	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	4.6	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	52.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.190	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	77.18	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes . No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	8.6	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	290.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	4.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	160.0	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,100	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	1,660	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	19.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.26	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	29.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	38.0	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.180	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.8	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.320	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	75.74	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	13.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.70	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	8.2	Report	mg/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	340	Report	mg/L	Grab	Quarterly	10	EPA 160.1	Peristaltic Pump	N
Specific Conductance *	00095	597	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	15.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.26	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 204.2	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 206.2	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 07/14/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 07/01/2009 To: 09/30/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 239.2	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.4	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.170	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	EPA 335.2	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.28	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

July 29, 2009
Project No: 93474

Laboratory Report

Project Name	**Quarterly Land Application Analyses - Crystal River Site**
Sample Description	**EFF-1**
Matrix	**Wastewater**
SAL Sample Number	**93474.01**
Date/Time Collected	**07/14/09 11:42**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Specific Conductance	umhos/cm	5,280	DEP FT1200		07/14/09 11:32		LRW
pH	Units	8.0	DEP FT1100		07/14/09 11:32		LRW
Inorganics							
Chloride	mg/l	160	EPA 300.0	0.05	07/14/09 23:39		MEJ
Specific Conductance	umhos/cm	1,000	SM 2510B	0.5	07/14/09 16:00		MTU
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 07:50	EPL
Hexane Extractable Material, Total	mg/l	1.8 I	EPA 1664	1.3	07/16/09 12:00	07/15/09 10:00	SGF
Total Dissolved Solids	mg/l	520	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0065	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0016 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Chromium	mg/l	0.004 U	EPA 200.7	0.004	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.0066 I	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	0.48	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Mercury	mg/l	0.00086	EPA 245.1	0.0001	07/22/09 09:28	07/20/09 14:35	SMW
Sodium	mg/l	95	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Antimony	mg/l	0.01 U	EPA 200.7	0.01	07/16/09 12:40	07/15/09 13:30	HWS
Selenium	mg/l	0.19 I	EPA 200.7	0.05	07/17/09 10:02	07/15/09 13:30	HWS
Thallium	mg/l	0.0090 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Zinc	mg/l	0.010 I	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.8±2.2 U1	EPA 00-02	2.8	07/17/09 08:52	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	0.6±0.2	Calculation	0.08	07/28/09 07:30	07/16/09 12:00	ARM
Radium-226	pCi/l	0.6±0.2	EPA 903.1	0.08	07/23/09 14:00	07/16/09 12:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/27/09 15:12	07/16/09 12:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

July 29, 2009
Project No: 93474

Laboratory Report

Footnotes

*	Test results presented in this report meet all the requirements of the NELAC standards.
**	A statement of estimated uncertainty of test results is available upon request.
***	For methods marked with ***, all QC criteria have been met for this method which is equivalent to a SAL certified method.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Analyte was undetected. Indicated concentration is method detection limit.
U1	Analyte was not detected; indicated concentration is method detection limit. Radiochemistry MDL is sample specific and matrix dependent.

Field conductivity may not be acurate. Conductivity run in laboratory. Field and Laboratory results are reported.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 93474

Client Name: Progress Energy, Inc.	Contact / Phone: Ron Johnson
Project Name / Location: Quarterly Land Application Analyses - Crystal River Site	
Samplers: (Signature) Ray Ward	

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	1LP, Cool 4°C TDS, Cl, conductivity	250ml P, HNO_3 Sb, As, Be, Cd, Cu, Cr, Fe, Pb, Hg, Ni, Se, Na, Tl, Zn	250mL P, NaOH Cyanide	1/2 Gallon Jug, HNO_3 Gross alpha, Radium 226+228	1LG, HCl HEM (Total)	125mL G, HCl HEM (Total)			No. of Containers (Total per each location)
01	EFF-1	7/14/09	11:42	WW		X	1	1	1	1	1	1			6

Containers Prepared/ Relinquished:	Date/Time: 1230 07-11-09	Received: Ray Ward	Date/Time: 7/14/09 0500
Relinquished: Ray Ward	Date/Time: 7/14/09 1502	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N (N/A)

Samples intact upon arrival? (Y) N N/A

Received on ice? Temp_____ (Y) N N/A

Proper preservatives indicated? (Y) N N/A

Rec'd within holding time? (Y) N N/A

Volatiles rec'd w/out headspace? Y N (N/A)

Proper containers used? (Y) N N/A

Instructions / Remarks

Field Measurements: pH

Chain of Custody.xls
Rev.Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
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WASTEWATER SAMPLING LOG

Client Name:	Progress Energy - Crystal River	Location:	EFF-1	Contact: / Phone:	Ron Johnson
Date of Sample:	7/14/09	SAL Project #	93474	Project Name:	Quarterly Land Application

SAL Audit Performed:	Y N	Auditor Name:		Client Representative on Site?	Y N	Rep. Name:	
		Signature:				Signature:	

SAMPLE DATA

Sampled By:	SAL ~~Client~~	Compositor Belongs To:	~~SAL~~ ~~Client~~ N/A	COMP Bottle Belongs To:	~~SAL~~ ~~Client~~ N/A
Compositor ID:		Bottle ID			
Intake Tubing Type:	PP PE NP TL TT SI	IntakeTubing Lot:		Pump Tubing Lot:	

COMPOSITE DATA Composite ID Number:

START	Date:		Time:	Compositor Set-up By:	
STOP	Date:		Time:	Compositor Picked-up By:	

Composite Type:	Time Flow Continuous	Collect Sample Every:		Minutes Gallons
Calibrated Sample Volume:		mLs		
Programmed Number of Samples:		Actual Number of Samples Collected:		
Final Compositor Temperature:		°C	Ice Present in Compositor at Pick-up?	Yes No

GRAB SAMPLE DATA Grab ID Number: .01

Date Collected:	7/14/09	Time Collected:	1132	Collected By:	LMW

FIELD PARAMETERS

PARAMETER	READING	UNITS	PERMIT LIMIT
pH	8.0	SU	
Temperature	38.9	°C	Report Only
Specific Conductance	5280		
Preservation Checked in Field?	Y N	Checked By:	
List any Preservatives Added in Field:			
Comments:			

Sampler(s) Signature:	Zey Ward	Date	7/14/09
		Date	
Reviewed By:		Date:	

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-1**
Matrix	**Groundwater**
SAL Sample Number	**93473.01**
Date/Time Collected	**07/14/09 11:03**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	20.10			07/14/09 11:02		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.20			07/14/09 11:02		LRW
Depth to Water (below Top of Casing)	ft.	4.26	DEP FS2211		07/14/09 11:02		LRW
Specific Conductance	umhos/cm	1,932	DEP FT1200		07/14/09 11:02		LRW
Water Elevation	ft., NGVD	2.94	DEP FS2211		07/14/09 11:02		LRW
Water Temperature	C	22.2	DEP FT1400		07/14/09 11:02		LRW
pH	Units	6.9	DEP FT1100		07/14/09 11:02		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 11:02		LRW
Turbidity	NTU	3.6	DEP FT1600		07/14/09 11:02		LRW
Inorganics							
Chloride	mg/l	540	EPA 300.0	0.05	07/15/09 16:17		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.049	EPA 300.0	0.01	07/14/09 18:16		MEJ
Nitrate (as N)	mg/l	0.011 I	EPA 300.0	0.01	07/14/09 18:16		MEJ
Total Dissolved Solids	mg/l	1,200	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0080	SM 3113B	0.001	07/24/09 09:58	07/20/09 10:40	MKB
Barium	mg/l	0.011 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0032 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.0042 I	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	2.0	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	270	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 K	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/22/09 10:05	07/20/09 10:40	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/20/09 10:40	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/20/09 10:40	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	19±2.9	EPA 00-02	2.8	07/17/09 08:49	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	5.7±0.4	Calculation	0.04	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	5.7±0.4	EPA 903.1	0.04	07/28/09 11:00	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 12:19	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

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SOUTHERN ANALYTICAL LABORATORIES, INC.
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWI-2R2**
Matrix	**Groundwater**
SAL Sample Number	**93473.02**
Date/Time Collected	**07/14/09 12:33**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	22.30			07/14/09 12:32		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.12			07/14/09 12:32		LRW
Depth to Water (below Top of Casing)	ft.	7.86	DEP FS2211		07/14/09 12:32		LRW
Specific Conductance	umhos/cm	1,660	DEP FT1200		07/14/09 12:32		LRW
Water Elevation	ft., NGVD	2.26	DEP FS2211		07/14/09 12:32		LRW
Water Temperature	C	24.3	DEP FT1400		07/14/09 12:32		LRW
pH	Units	6.7	DEP FT1100		07/14/09 12:32		LRW
Dissolved Oxygen	mg/l	0.8	DEP FT1500		07/14/09 12:32		LRW
Turbidity	NTU	19	DEP FT1600		07/14/09 12:32		LRW
Inorganics							
Chloride	mg/l	290	EPA 300.0	0.05	07/15/09 16:34		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.32	EPA 300.0	0.01	07/14/09 18:33		MEJ
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	07/14/09 18:33		MEJ
Total Dissolved Solids	mg/l	1,100	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.038	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.18	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0029 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	4.1	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	160	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.0026 I	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	29±3.3	EPA 00-02	2.8	07/17/09 08:50	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	8.6±0.5	Calculation	0.05	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	8.6±0.5	EPA 903.1	0.05	07/28/09 11:00	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 12:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWI-7R**
Matrix	**Groundwater**
SAL Sample Number	**93473.03**
Date/Time Collected	**07/14/09 07:26**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	20.00			07/14/09 07:25		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.63			07/14/09 07:25		LRW
Depth to Water (below Top of Casing)	ft.	5.37	DEP FS2211		07/14/09 07:25		LRW
Specific Conductance	umhos/cm	597	DEP FT1200		07/14/09 07:25		LRW
Water Elevation	ft., NGVD	2.26	DEP FS2211		07/14/09 07:25		LRW
Water Temperature	C	24.6	DEP FT1400		07/14/09 07:25		LRW
pH	Units	6.8	DEP FT1100		07/14/09 07:25		LRW
Dissolved Oxygen	mg/l	0.4	DEP FT1500		07/14/09 07:25		LRW
Turbidity	NTU	15	DEP FT1600		07/14/09 07:25		LRW
Inorganics							
Chloride	mg/l	13	EPA 300.0	0.05	07/14/09 18:50		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.17	EPA 300.0	0.01	07/14/09 18:50		MEJ
Nitrate (as N)	mg/l	0.013 I	EPA 300.0	0.01	07/14/09 18:50		MEJ
Total Dissolved Solids	mg/l	340	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.001 U	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.011 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0032 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.0068 I	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	3.7	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	8.2	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.0±2.1 U1	EPA 900.0	2.0	07/20/09 10:41	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	0.5±0.1	Calculation	0.06	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	0.5±0.1	EPA 903.1	0.06	07/28/09 11:00	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 12:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-12R**
Matrix	**Groundwater**
SAL Sample Number	**93473.04**
Date/Time Collected	**07/14/09 13:13**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	22.60			07/14/09 13:12		LRW
Reference Elevation (Top of Casing)	ft., NGVD	9.49			07/14/09 13:12		LRW
Depth to Water (below Top of Casing)	ft.	4.26	DEP FS2211		07/14/09 13:12		LRW
Specific Conductance	umhos/cm	685	DEP FT1200		07/14/09 13:12		LRW
Water Elevation	ft., NGVD	5.23	DEP FS2211		07/14/09 13:12		LRW
Water Temperature	C	22.2	DEP FT1400		07/14/09 13:12		LRW
pH	Units	7.0	DEP FT1100		07/14/09 13:12		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 13:12		LRW
Turbidity	NTU	2.8	DEP FT1600		07/14/09 13:12		LRW
Inorganics							
Chloride	mg/l	87	EPA 300.0	0.05	07/15/09 16:51		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.040	EPA 300.0	0.01	07/14/09 19:07		MEJ
Nitrate (as N)	mg/l	0.010 I	EPA 300.0	0.01	07/14/09 19:07		MEJ
Total Dissolved Solids	mg/l	410	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.001 U	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.0089 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0023 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	0.17	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	43	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	10±4.4	EPA 900.0	2.0	07/20/09 10:41	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	2.8±0.2	Calculation	0.04	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	2.8±0.2	EPA 903.1	0.04	07/28/09 11:00	07/21/09 13:00	JMK
Radium-228	pCi/l	0.4±0.2 U1	EPA RA-05	0.4	07/30/09 12:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-16**
Matrix	**Groundwater**
SAL Sample Number	**93473.05**
Date/Time Collected	**07/14/09 07:57**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	18.80			07/14/09 07:56		LRW
Reference Elevation (Top of Casing)	ft., NGVD	13.36			07/14/09 07:56		LRW
Depth to Water (below Top of Casing)	ft.	11.31	DEP FS2211		07/14/09 07:56		LRW
Specific Conductance	umhos/cm	30,270	DEP FT1200		07/14/09 07:56		LRW
Water Elevation	ft., NGVD	2.05	DEP FS2211		07/14/09 07:56		LRW
Water Temperature	C	26.9	DEP FT1400		07/14/09 07:56		LRW
pH	Units	6.8	DEP FT1100		07/14/09 07:56		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 07:56		LRW
Turbidity	NTU	2.8	DEP FT1600		07/14/09 07:56		LRW
Inorganics							
Chloride	mg/l	12,000	EPA 300.0	0.05	07/15/09 17:08		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.56	SM 4500F C	0.02	07/20/09 11:23		JSB
Nitrate (as N)	mg/l	0.018 I	EPA 353.2	0.01	07/15/09 13:06		JSB
Total Dissolved Solids	mg/l	21,000	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0030 I	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.035	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0053	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.0052 I	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	1.1	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	6,600	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.0055	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.0049	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	40±3.6	EPA 00-02	2.8	07/17/09 08:51	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	12±0.6	Calculation	0.3	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	12±0.6	EPA 903.1	0.06	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.4±0.2	EPA RA-05	0.3	07/30/09 12:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

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Leslie C. Boardman, Q. A. Manager

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-21R**
Matrix	**Groundwater**
SAL Sample Number	**93473.06**
Date/Time Collected	**07/14/09 06:55**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.90			07/14/09 06:55		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.49			07/14/09 06:55		LRW
Depth to Water (below Top of Casing)	ft.	6.81	DEP FS2211		07/14/09 06:55		LRW
Specific Conductance	umhos/cm	699	DEP FT1200		07/14/09 06:55		LRW
Water Elevation	ft., NGVD	3.68	DEP FS2211		07/14/09 06:55		LRW
Water Temperature	C	23.5	DEP FT1400		07/14/09 06:55		LRW
pH	Units	6.6	DEP FT1100		07/14/09 06:55		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 06:55		LRW
Turbidity	NTU	1.3	DEP FT1600		07/14/09 06:55		LRW
Inorganics							
Chloride	mg/l	28	EPA 300.0	0.05	07/15/09 17:25		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.14	EPA 300.0	0.01	07/14/09 19:41		MEJ
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	07/14/09 19:41		MEJ
Total Dissolved Solids	mg/l	450	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0040	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.016 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0029 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.0040 I	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	1.8	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	18	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	8.3±2.8	EPA 900.0	2.0	07/20/09 10:42	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	2.3±0.3	Calculation	0.03	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	2.3±0.3	EPA 903.1	0.03	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 12:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-27**
Matrix	**Groundwater**
SAL Sample Number	**93473.07**
Date/Time Collected	**07/14/09 11:42**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	12.80			07/14/09 11:41		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.00			07/14/09 11:41		LRW
Depth to Water (below Top of Casing)	ft.	8.11	DEP FS2211		07/14/09 11:41		LRW
Specific Conductance	umhos/cm	2,796	DEP FT1200		07/14/09 11:41		LRW
Water Elevation	ft., NGVD	2.89	DEP FS2211		07/14/09 11:41		LRW
Water Temperature	C	26.8	DEP FT1400		07/14/09 11:41		LRW
pH	Units	6.9	DEP FT1100		07/14/09 11:41		LRW
Dissolved Oxygen	mg/l	0.3	DEP FT1500		07/14/09 11:41		LRW
Turbidity	NTU	1.4	DEP FT1600		07/14/09 11:41		LRW
Inorganics							
Chloride	mg/l	500	EPA 300.0	0.05	07/15/09 17:42		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.19	EPA 300.0	0.01	07/14/09 19:58		MEJ
Nitrate (as N)	mg/l	0.39	EPA 300.0	0.01	07/14/09 19:58		MEJ
Total Dissolved Solids	mg/l	1,300	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0047	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.014 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0028 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.0052 I	EPA 200.7	0.003	07/16/09 12:40		HWS
Iron	mg/l	0.20	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	280	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.0048	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.8±2.3 U1	EPA 00-02	2.8	07/17/09 08:51	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	1.1±0.2	Calculation	0.03	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	1.1±0.2	EPA 903.1	0.03	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 12:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-28**
Matrix	**Groundwater**
SAL Sample Number	**93473.08**
Date/Time Collected	**07/14/09 10:43**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.60			07/14/09 10:42		LRW
Reference Elevation (Top of Casing)	ft., NGVD	8.07			07/14/09 10:42		LRW
Depth to Water (below Top of Casing)	ft.	5.31	DEP FS2211		07/14/09 10:42		LRW
Specific Conductance	umhos/cm	6,540	DEP FT1200		07/14/09 10:42		LRW
Water Elevation	ft., NGVD	2.76	DEP FS2211		07/14/09 10:42		LRW
Water Temperature	C	22.0	DEP FT1400		07/14/09 10:42		LRW
pH	Units	6.8	DEP FT1100		07/14/09 10:42		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 10:42		LRW
Turbidity	NTU	7.3	DEP FT1600		07/14/09 10:42		LRW
Inorganics							
Chloride	mg/l	2,100	EPA 300.0	0.05	07/15/09 17:59		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.12	EPA 300.0	0.01	07/14/09 20:15		MEJ
Nitrate (as N)	mg/l	0.042	EPA 300.0	0.01	07/14/09 20:15		MEJ
Total Dissolved Solids	mg/l	4,400	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0020 I	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.040	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0036 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.0062 I	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	2.4	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	1,100	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.0016 I	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	35±3.4	EPA 00-02	2.8	07/17/09 08:51	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	10±0.6	Calculation	0.3	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	10±0.6	EPA 903.1	0.06	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.4±0.2	EPA RA-05	0.3	07/30/09 16:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-29**
Matrix	**Groundwater**
SAL Sample Number	**93473.09**
Date/Time Collected	**07/14/09 08:53**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	26.70			07/14/09 08:52		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.56			07/14/09 08:52		LRW
Depth to Water (below Top of Casing)	ft.	8.60	DEP FS2211		07/14/09 08:52		LRW
Specific Conductance	umhos/cm	2,367	DEP FT1200		07/14/09 08:52		LRW
Water Elevation	ft., NGVD	2.96	DEP FS2211		07/14/09 08:52		LRW
Water Temperature	C	24.0	DEP FT1400		07/14/09 08:52		LRW
pH	Units	6.5	DEP FT1100		07/14/09 08:52		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 08:52		LRW
Turbidity	NTU	0.40	DEP FT1600		07/14/09 08:52		LRW
Inorganics							
Chloride	mg/l	140	EPA 300.0	0.05	07/15/09 18:16		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/17/09 14:05	07/15/09 13:30	EPL
Fluoride	mg/l	0.078	EPA 300.0	0.01	07/14/09 20:32		MEJ
Nitrate (as N)	mg/l	0.011 I	EPA 300.0	0.01	07/14/09 20:32		MEJ
Total Dissolved Solids	mg/l	2,300	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0047	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.019 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0048	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	2.4	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	74	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	15±2.7	EPA 00-02	2.8	07/17/09 08:51	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	4.2±0.3	Calculation	0.04	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	4.2±0.3	EPA 903.1	0.04	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 16:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-1F2**
Matrix	**Groundwater**
SAL Sample Number	**93473.10**
Date/Time Collected	**07/14/09 09:59**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	16.40			07/14/09 09:58		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.64			07/14/09 09:58		LRW
Depth to Water (below Top of Casing)	ft.	9.41	DEP FS2211		07/14/09 09:58		LRW
Specific Conductance	umhos/cm	2,586	DEP FT1200		07/14/09 09:58		LRW
Water Elevation	ft., NGVD	2.23	DEP FS2211		07/14/09 09:58		LRW
Water Temperature	C	25.1	DEP FT1400		07/14/09 09:58		LRW
pH	Units	6.4	DEP FT1100		07/14/09 09:58		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 09:58		LRW
Turbidity	NTU	2.4	DEP FT1600		07/14/09 09:58		LRW
Inorganics							
Chloride	mg/l	270	EPA 300.0	0.05	07/15/09 19:24		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/21/09 09:50	07/18/09 08:00	EPL
Fluoride	mg/l	0.19	EPA 300.0	0.01	07/14/09 22:31		MEJ
Nitrate (as N)	mg/l	0.018 I	EPA 300.0	0.01	07/14/09 22:31		MEJ
Total Dissolved Solids	mg/l	2,080	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0061	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.015 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0046	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	23	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	200	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.052	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	5.2±2.4	EPA 00-02	2.8	07/17/09 08:51	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	1.4±0.2	Calculation	0.03	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	1.4±0.2	EPA 903.1	0.03	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 16:20	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

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SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWC-21R- Duplicate**
Matrix	**Groundwater**
SAL Sample Number	**93473.11**
Date/Time Collected	**07/14/09 06:55**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.90			07/14/09 06:55		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.49			07/14/09 06:55		LRW
Depth to Water (below Top of Casing)	ft.	6.81	DEP FS2211		07/14/09 06:55		LRW
Specific Conductance	umhos/cm	699	DEP FT1200		07/14/09 06:55		LRW
Water Elevation	ft., NGVD	3.68	DEP FS2211		07/14/09 06:55		LRW
Water Temperature	C	23.5	DEP FT1400		07/14/09 06:55		LRW
pH	Units	6.6	DEP FT1100		07/14/09 06:55		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 06:55		LRW
Turbidity	NTU	1.3	DEP FT1600		07/14/09 06:55		LRW
Inorganics							
Chloride	mg/l	29	EPA 300.0	0.05	07/15/09 19:41		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/21/09 09:50	07/18/09 08:00	EPL
Fluoride	mg/l	0.14	EPA 300.0	0.01	07/14/09 22:48		MEJ
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	07/14/09 22:48		MEJ
Total Dissolved Solids	mg/l	450	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0044	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.016 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0030 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	2.0	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	18	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	4.6±2.2	EPA 00-02	2.8	07/17/09 11:55	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	2.5±0.2	Calculation	0.06	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	2.5±0.2	EPA 903.1	0.06	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 16:21	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
NELAP Accredited

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**MWB-30**
Matrix	**Groundwater**
SAL Sample Number	**93473.12**
Date/Time Collected	**07/14/09 12:09**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	18.70			07/14/09 12:08		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.67			07/14/09 12:08		LRW
Depth to Water (below Top of Casing)	ft.	4.43	DEP FS2211		07/14/09 12:08		LRW
Specific Conductance	umhos/cm	939	DEP FT1200		07/14/09 12:08		LRW
Water Elevation	ft., NGVD	3.24	DEP FS2211		07/14/09 12:08		LRW
Water Temperature	C	23.5	DEP FT1400		07/14/09 12:08		LRW
pH	Units	7.0	DEP FT1100		07/14/09 12:08		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		07/14/09 12:08		LRW
Turbidity	NTU	3.9	DEP FT1600		07/14/09 12:08		LRW
Inorganics							
Chloride	mg/l	180	EPA 300.0	0.05	07/15/09 19:58		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/21/09 09:50	07/18/09 08:00	EPL
Fluoride	mg/l	0.020 I	EPA 300.0	0.01	07/14/09 23:05		MEJ
Nitrate (as N)	mg/l	0.013 I	EPA 300.0	0.01	07/14/09 23:05		MEJ
Total Dissolved Solids	mg/l	570	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.0068	SM 3113B	0.001	07/24/09 09:58	07/22/09 10:55	MKB
Barium	mg/l	0.016 I	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/15/09 13:30	HWS
Cadmium	mg/l	0.0025 I	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Iron	mg/l	1.9	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	97	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32	07/22/09 10:55	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18	07/22/09 10:55	MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50	07/22/09 10:55	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	7.3±2.5	EPA 900.0	2.0	07/20/09 10:41	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	2.4±0.3	Calculation	0.04	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	2.4±0.3	EPA 903.1	0.04	07/28/09 13:02	07/21/09 13:00	JMK
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	07/30/09 16:21	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Project Name	**Quarterly Monitoring Well Analyses - Crystal River Site**
Sample Description	**Equipment Blank**
Matrix	**Reagent Water**
SAL Sample Number	**93473.13**
Date/Time Collected	**07/14/09 06:30**
Date/Time Received	**07/14/09 15:02**

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Specific Conductance	umhos/cm	7	DEP FT1200		07/14/09 06:30		LRW
Water Temperature	C	25.7	DEP FT1400		07/14/09 06:30		LRW
pH	Units	7.1	DEP FT1100		07/14/09 06:30		LRW
Dissolved Oxygen	mg/l	3.2	DEP FT1500		07/14/09 06:30		LRW
Turbidity	NTU	0.10	DEP FT1600		07/14/09 06:30		LRW
Inorganics							
Chloride	mg/l	0.081 I	EPA 300.0	0.05	07/14/09 23:22		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	07/21/09 09:50	07/18/09 08:00	EPL
Fluoride	mg/l	0.01 U	EPA 300.0	0.01	07/14/09 23:22		MEJ
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	07/14/09 23:22		MEJ
Total Dissolved Solids	mg/l	10 U	SM 2540C	10	07/15/09 13:50	07/14/09 16:00	EPL
Metals							
Arsenic	mg/l	0.001 U	SM 3113B	0.001	07/24/09 09:58		MKB
Barium	mg/l	0.005 U	EPA 200.7	0.005	07/16/09 12:40	07/15/09 13:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	07/16/09 12:40	07/16/09 10:30	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/16/09 10:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/16/09 10:30	HWS
Iron	mg/l	0.02 U	EPA 200.7	0.02	07/16/09 12:40	07/15/09 13:30	HWS
Sodium	mg/l	0.11 I	EPA 200.7	0.1	07/18/09 08:20		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	07/16/09 12:40	07/15/09 13:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	07/24/09 11:32		MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	07/23/09 10:18		MKB
Thallium	mg/l	0.001 U	EPA 279.2	0.001	07/23/09 09:50		SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	07/16/09 12:40	07/15/09 13:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.0±1.2 U1	EPA 900.0	2.0	07/20/09 10:41	07/15/09 08:30	ARM
Radium-226/228 Combined	pCi/l	0.2±0.2 U1	Calculation	0.2	07/31/09 11:30	07/21/09 13:00	ARM
Radium-226	pCi/l	0.05±0.1 U1	EPA 903.1	0.05	07/28/09 14:51	07/21/09 13:00	JMK
Radium-228	pCi/l	0.2±0.2 U1	EPA RA-05	0.2	07/30/09 16:21	07/21/09 13:00	ARM

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

August 3, 2009
Project No: 93473

Laboratory Report

Footnotes

*	Test results presented in this report meet all the requirements of the NELAC standards.
**	A statement of estimated uncertainty of test results is available upon request.
***	For methods marked with ***, all QC criteria have been met for this method which is equivalent to a SAL certified method.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
K	Analyte was undetected. Indicated concentration is method detection limit multiplied by sample dilution factor.
U	Analyte was undetected. Indicated concentration is method detection limit.
U1	Analyte was not detected; indicated concentration is method detection limit. Radiochemistry MDL is sample specific and matrix dependent.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 93473

Client Name: Progress Energy, Inc.	Contact / Phone: Ron Johnson
Project Name / Location: Quarterly Monitoring Well Analyses - Crystal River Site	
Samplers: (Signature) Larry Ward	

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	1LP, Cool 4°C Chloride, TDS, NO_3, F	250ml P, HNO_3 Cu, Fe, Na, Sb, As, Ba, Be, Cd, Pb, Ni, Tl, Zn	250mL P, NaOH Cyanide	1/2 Gallon Jug, HNO_3 Gross alpha, Radium 226, Radium 228, Combined 226+228					No. of Containers (Total per each location)
01	MWC-1	7/14/09	1103	GW		X	1	1	1	2					5
02	MWI-2R2		1233	GW		X	1	1	1	2					5
03	MWI-7R		0726	GW		X	1	1	1	2					5
04	MWC-12R		1313	GW		X	1	1	1	2					5
05	MWC-16		0757	GW		X	1	1	1	2					5
06	MWC-21R		0655	GW		X	1	1	1	2					5
07	MWC-27		1143	GW		X	1	1	1	2					5
08	MWC-28		1043	GW		X	1	1	1	2					5
09	MWC-29		0853	GW		X	1	1	1	2					5
10	MWC-IF2		0959	GW		X	1	1	1	2					5
11	MW-2/R Duplicate		0655	GW		X	1	1	1	2					5
12	MWB-30		1209	GW		X	1	1	1	2					5
13	Equipment Blank		0630	R		X	1	1	1	2					5

Relinquished	Date/Time	Received	Date/Time
Containers Prepared/ Relinquished:	1400 07/14/09	Received: Larry Ward	7/14/09 0430
Relinquished: Larry Ward	7/14/09 1502	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N (N/A)

Samples intact upon arrival? (Y) N N/A

Received on ice? Temp_____ (Y) N N/A

Proper preservatives indicated? (Y) N N/A

Rec'd within holding time? (Y) N N/A

Volatiles rec'd w/out headspace? Y N (N/A)

Proper containers used? (Y) N N/A

Instructions / Remarks

Field Measurements: Temperature, pH, Specific Conductance, Turbidity, Water Level, DO

Client needs to meet Drinking Water Limits.

SOUTHERN ANALYTICAL LABORATORIES, INC.

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GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-1	Sample ID	.01	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	4.26	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	20.10	REFERENCE ELEVATION (NGVD)	7.20	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.94	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (20.10 -) * 0.1632

ONE WELL VOLUME	2.58	1/4 WELL VOLUME	0.64	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1049	PURGE TIME END	1102	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1055	3.0	3.0	0.50	4.29	6.9	22.2	1927	0.20	5.51	Clear	None
1058	1.50	4.50	"	4.29	6.9	22.2	1930	0.18	4.07	"	"
1102	1.50	6.0	"	4.29	6.9	22.2	1932	0.17	3.62	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Zay Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	1103	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS			
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Cloudy								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWI-2R	Sample ID	.02	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	7.86	PURGE PUMP CODE: PP GP IBP
TOTAL WELL DEPTH (Feet)	22.30	REFERENCE ELEVATION (NGVD)	10.12	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.26		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (22.30 -) * 0.1632

ONE WELL VOLUME	2.35	1/4 WELL VOLUME	0.58	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	12:21	PURGE TIME END	1232	TOTAL PURGED	5.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1226	2.50	2.50	0.50	7.89	6.7	24.3	1652	0.32	15.0	Clear	None
1229	1.50	4.0	"	7.89	6.7	24.3	1654	0.27	17.6	"	"
1232	1.50	5.50	"	7.89	6.7	24.3	1660	0.75	19.2	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Zay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	1233	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Cloudy						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/04	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWI-7R	Sample ID	.03	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	5.37	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	20.00	REFERENCE ELEVATION (NGVD)	7.63	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.24	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (20.00 -) * 0.1632

ONE WELL VOLUME	2.38	1/4 WELL VOLUME	0.59	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0713	PURGE TIME END	0726	TOTAL PURGED	4.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0719	2.50	2.50	0.25	5.39	6.8	24.6	602	0.67	38.1	Brackish	None
0722	0.75	3.25	"	5.39	6.8	24.6	601	0.44	21.2	"	"
0725	0.75	4.0	"	5.39	6.8	24.6	597	0.40	15.2	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Zy Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0726	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Cloudy						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	5/14/04	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-12R	Sample ID	.04	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	4.26	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	22.60	REFERENCE ELEVATION (NGVD)	9.49	GROUND WATER ELEVATION (REFERENCE-STATIC)	5.23		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (22.60 -) * 0.1632

ONE WELL VOLUME	2.99	1/4 WELL VOLUME	0.74	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1300	PURGE TIME END	1312	TOTAL PURGED	6.0	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1306	3.0	3.0	0.50	4.29	7.0	22.1	681	0.31	7.26	clear	none
1309	1.50	4.50	"	4.28	7.0	22.2	684	0.26	3.98	"	"
1312	1.50	6.0	"	4.28	7.0	22.2	685	0.21	2.74	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Jay W [illegible]		
TUBING MATERIAL CODE (CIRCLE ONE)		PP PE NP (TL) TT		SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	1313	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (μm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?		(Y) N N/A		LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Cloudy								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-16	Sample ID	.05	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	11.31	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	18.80	REFERENCE ELEVATION (NGVD)	13.36	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.05	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (18.80 -) * 0.1632

ONE WELL VOLUME	1.22	1/4 WELL VOLUME		3 WELL VOLUMES	3.64	5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0747	PURGE TIME END	0754	TOTAL PURGED	7.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0750	1.50	1.50	0.50	11.43	6.8	26.8	30300	0.51	4.04	Clear	None
0753	1.50	3.0	"	11.43	6.8	26.8	30290	0.30	2.87	"	"
0754	1.50	4.50	"	11.43	6.8	26.9	30270	0.24	2.74	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Lay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0757	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-21R	Sample ID	.06 + .11	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	6.81	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	21.90	REFERENCE ELEVATION (NGVD)	10.49	GROUND WATER ELEVATION (REFERENCE-STATIC)	3.68	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (21.90 -) * 0.1632

ONE WELL VOLUME	2.44	1/4 WELL VOLUME	0.61	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0644	PURGE TIME END	0655	TOTAL PURGED	5.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0649	2.50	2.50	0.50	6.92	6.5	23.5	687	0.27	3.68	Clear	None
0652	1.50	4.0	"	6.92	6.4	23.5	689	0.24	2.43	"	"
0655	1.50	5.50	"	6.92	6.6	23.5	699	0.21	1.27	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Zay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0655	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	(Y) N	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Cloudy						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/04	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-27	Sample ID	.07	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	8.11	PURGE PUMP CODE: PP GP IBP
TOTAL WELL DEPTH (Feet)	12.80	REFERENCE ELEVATION (NGVD)	11.00	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.89		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (12.80 -) * 0.1632

ONE WELL VOLUME	0.74	1/4 WELL VOLUME	0.19	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1139	PURGE TIME END	1141	TOTAL PURGED	2.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1135	1.0	1.0	0.25	8.14	6.9	26.8	2870	0.38	3.19	clear	None
1138	0.75	1.75	"	8.14	6.9	26.8	2864	0.36	2.17	"	"
1141	0.75	2.50	"	8.14	6.9	26.8	2796	0.34	1.39	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Zay Wed		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT		SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	1142	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Cloudy								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	1/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-28	Sample ID	.08	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	5.31	PURGE PUMP CODE (PP) GP IBP
TOTAL WELL DEPTH (Feet)	21.60	REFERENCE ELEVATION (NGVD)	8.07	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.74		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (21.60 -) * 0.1632

ONE WELL VOLUME	2.65	1/4 WELL VOLUME	0.44	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1030	PURGE TIME END	1042	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1036	3.0	3.0	0.50	5.33	6.8	21.9	6550	0.24	16.9	None	None
1039	1.50	4.50	"	5.33	6.8	22.0	6540	0.21	9.86	"	"
1042	1.50	6.0	"	5.33	6.8	22.0	6540	0.20	7.32	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)					SAMPLER(S) SIGNATURES:	Zey Wood	
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT		SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	1043	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A) SEMI-VOLS COLLECTED THROUGH TRAP? Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Cloudy						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-29	Sample ID	.09	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	8.60	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	26.70	REFERENCE ELEVATION (NGVD)	11.56	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.96		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (26.70 -) * 0.1632

ONE WELL VOLUME	2.95	1/4 WELL VOLUME	0.73	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0840	PURGE TIME END	0852	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0846	2.0	3.0	0.50	8.63	6.6	24.0	2350	0.32	1.96	Clear	None
0849	1.50	4.50	"	8.63	6.6	24.0	2354	0.20	0.87	"	"
0852	1.50	6.0	"	8.63	6.5	24.0	2367	0.14	0.41	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Zay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0852	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-IF2	Sample ID	.10	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	9.41	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	16.40	REFERENCE ELEVATION (NGVD)	11.64	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.23		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (16.40 -) * 0.1632

ONE WELL VOLUME	1.14	1/4 WELL VOLUME	0.28	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0947	PURGE TIME END	0958	TOTAL PURGED	2.75

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0952	1.25	1.25	0.25	9.43	6.4	25.2	2614	0.29	4.01	Clear	None
0955	0.75	2.0	"	9.43	6.4	25.1	2609	0.21	3.25	"	"
0958	0.75	2.75	"	9.43	6.4	25.1	2586	0.20	2.44	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Jay Wood		
TUBING MATERIAL CODE (CIRCLE ONE)		PP PE NP TL TT		SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0959	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?		(Y) N N/A		LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS		Cloudy							
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	MWB-30	Sample ID	.12	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1652	Screen Interval (Feet)	N/A To N/A		Static Depth to Water (Feet)	4.43	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	18.70	REFERENCE ELEVATION (NGVD)	7.67	GROUND WATER ELEVATION (REFERENCE-STATIC)	3.24		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (18.70 - N/A) * 0.1652

ONE WELL VOLUME	2.32	1/4 WELL VOLUME	0.55	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)	N/A	FINAL TUBING LEGNTH IN WELL (FEET)	N/A	PURGE TIME START	11:57 N/A	PURGE TIME END	N/A 1208	TOTAL PURGED	5.50 N/A

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1202	2.50	2.50	0.50	4.47	7.0	23.5	938	0.27	5.26	Clear	None
1205	1.50	4.0	"	4.46	7.0	23.5	940	0.24	4.17	"	"
1208	1.50	5.50	"	4.46	7.0	23.5	939	0.23	3.92	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Zay Wood		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)		N/A	SAMPLE PUMP FLOW RATE (mL/min)	N/A	
SAMPLING INITIATED	1209	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Cloudy						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	7/14/09	SAL Project #	93473	Project Name	Quarterly Monitor Well Sampling
Well Number	Equipment Blank	Sample ID	.13	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	N/A	WELL CAPACITY (gal/ft)	N/A	Screen Interval (Feet)	N/A To N/A	Static Depth to Water (Feet)	N/A	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	N/A	REFERENCE ELEVATION (NGVD)	N/A	GROUND WATER ELEVATION (REFERENCE-STATIC)	N/A	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (N/A - N/A) * N/A

ONE WELL VOLUME	N/A	1/4 WELL VOLUME	N/A	3 WELL VOLUMES	N/A	5 WELL VOLUMES	N/A

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)	N/A	FINAL TUBING LEGNTH IN WELL (FEET)	N/A	PURGE TIME START	N/A	PURGE TIME END	N/A	TOTAL PURGED	N/A

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0630					7.1	25.7	7.2	3.21	0.08	clear	None

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Zay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LEGNTH IN WELL (FEET)		N/A	SAMPLE PUMP FLOW RATE (mL/min)	N/A	
SAMPLING INITIATED		SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS	
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A						
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Cloudy						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

November 25, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of October 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/10/01 To: 2009/10/31

PARAMETER			QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow		Sample Measurement	0.37	0.51	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050	1	Permit Requirement	0.91 (Mo. Avg.)	Report (Daily Max)		****	****	****			Daily	Meter
Mon. Site No FLW-1												

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher **Manager, Crystal River Fossil Plant & Fuel Operations**	Larry E. Hatcher	(352) 563-4484	11/24/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

12

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

December 22, 2009

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of November 2009. This submittal includes the current month flow monitoring to the land application system (G-001).

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatch

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042 MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2009/11/01 To: 2009/11/30

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St Crystal River, FL 34428
COUNTY: Citrus

PARAMETER			QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow		Sample Measurement	0.38	0.69	MGD	****	****	****	****	0	Daily	Meter
PARM Code 50050	1	Permit Requirement	0.91 (Mo. Avg.)	Report (Daily Max)		****	****	****			Daily	Meter
Mon. Site No. FLW-1												

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	12/21/09

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

13

Progress Energy

Larry Hatcher
Plant Manager
Crystal River Fossil Plant & Fuel Operations

January 20, 2010

Department of Environmental Protection
Wastewater Compliance Evaluation Section
Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Florida Power Corporation
Crystal River Energy Complex
Permit ID# FLA016960

Enclosed is the monthly monitoring report for above referenced permit for the month of December 2009. This submittal includes the current month flow monitoring to the land application system (G-001) as well as the quarterly analysis for the percolation pond system.

If you should have any questions concerning this report, please contact Erika Tuchbaum-Biro of my staff at (352) 464-7909 or Doug Yowell at (727) 820-5228

Sincerely,

Larry E. Hatcher

Larry Hatcher
Manager, Crystal River
Fossil Plant & Fuel Operations

Enclosure

CERTIFIED

Cc: FDEP Southwest District

Progress Energy Florida, Inc.
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Monthly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/12/01 To: 2009/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	Sample Measurement	0.45	0.61	MGD	****	****	****	***	0	Daily	Meter
PARM Code 50050 1 Mon. Site No FLW-1	Permit Requirement	0.76 (Mo. Avg.)	Report (Day Max)		****	****	****			Daily	Meter

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	1/25/10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/12/01 To: 2009/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	Sample Measurement	****	****	***	****	8.1	8.1	SU	0	Quarterly	In-situ
PARM Code 00400 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	Report (Min.)	Report (Max.)			Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement	****	****	***	****	****	380.0	MG/L	0	Quarterly	Grab
PARM Code 70295 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Specific Conductance	Sample Measurement	****	****	***	****	****	806.0	UMHO/CM	0	Quarterly	In-situ
PARM Code 00095 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	In-situ
Oil and Grease	Sample Measurement	****	****	***	****	****	1.3	MG/L	0	Quarterly	Grab
PARM Code 00556 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chloride (as Cl)	Sample Measurement	****	****	***	****	****	30.0	MG/L	0	Quarterly	Grab
PARM Code 00940 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatcher	(352) 563-4484	1/25/10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2009/12/01 To: 2009/12/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Cyanide, Total Recoverable	Sample Measurement	****	****	***	****	****	<0.005	MG/L	0	Quarterly	Grab
PARM Code 78248 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Alpha, Gross Particle	Sample Measurement	****	****	***	****	****	<2.8	PCI/L	0	Quarterly	Grab
PARM Code 80045 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement	****	****	***	****	****	1.2	PCI/L	0	Quarterly	Grab
PARM Code 11503 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement	****	****	***	****	****	<10	UG/L	0	Quarterly	Grab
PARM Code 01268 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement	****	****	***	****	****	24.0	UG/L	0	Quarterly	Grab
PARM Code 00978 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

1 - The total recoverable iron (iron) concentration in the discharge from D-001 as monitored at EFF-1 shall not exceed 1.0 mg/l, unless the iron concentration in the intake as monitored at INT-1 exceeds 1.0 mg/l, in which case the iron concentration in the discharge from D-001 shall not exceed the iron concentration at INT-1 pursuant to Rule 62-660.400 (1)(q), F.A.C.

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/12/01 To: 2009/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Beryllium, Total Recoverable	Sample Measurement	****	****	***	****	****	<0.1	UG/L	0	Quarterly	Grab
PARM Code 00998 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01113 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement	****	****	***	****	****	0.016	MG/L	0	Quarterly	Grab
PARM Code 01119 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement	****	****	***	****	****	<0.004	MG/L	0	Quarterly	Grab
PARM Code 01118 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement	****	****	***	****	****	2.20	MG/L	0	Quarterly	Grab
PARM Code 00980 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: 2009/12/01 To: 2009/12/31

REPORT: Quarterly
GROUP: Industrial

FACILITY: Crystal River Energy Complex
LOCATION: 15760 West Powerline StCrystal River, FL 34428
COUNTY: Citrus

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Lead, Total Recoverable	Sample Measurement	****	****	***	****	****	<1	UG/L	0	Quarterly	Grab
PARM Code 01114 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement	****	****	***	****	****	<0.1	UG/L	0	Quarterly	Grab
PARM Code 71901 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement	****	****	***	****	****	1.0	UG/L	0	Quarterly	Grab
PARM Code 01074 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement	****	****	***	****	****	<50	UG/L	0	Quarterly	Grab
PARM Code 00981 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement	****	****	***	****	****	24.0	MG/L	0	Quarterly	Grab
PARM Code 00923 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max.)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida, In
MAILING ADDRESS: P.O.Box 14042,MAC CN77
St.Petersburg FL 33733
ATTN: Larry E. Hatcher

PERMIT NUMBER: FLA016960
LIMIT: Final
CLASS SIZE:
MONITORING GROUP NUMBER: G-001
MONITORING GROUP DESC: Three-stage Percolation Pond System
NO DISCHARGE FROM SITE: ☐

REPORT: Quarterly
GROUP: Industrial

FACILITY: **Crystal River Energy Complex**
LOCATION: 15760 West Powerline St,Crystal River, FL 34428
COUNTY: Citrus

MONITORING PERIOD--From: 2009/12/01 To: 2009/12/31

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Thallium, Total Recoverable	Sample Measurement	****	****	***	****	****	<5	UG/L	0	Quarterly	Grab
PARM Code 00982 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement	****	****	***	****	****	0.003	MG/L	0	Quarterly	Grab
PARM Code 01094 1 Mon. Site No EFF-1	Permit Requirement	****	****		****	****	Report (Max)			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and Radium 228	11503	2.3	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	150.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.059	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.1	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	92.0	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	470	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	933	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.20	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.30	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.9	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.8	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

I certify under penalty of law that this document and all attachments were prepared under my direct 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 is 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 AGEN	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGEN	TELEPHONE N	DATE (yy/mm/dd)
Larry E. Hatcher Manager, Crystal River Fossil Plant & Fuel Operations	Larry E. Hatch	(352) 563-4484	10/01/20

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWB-30
Well Type: Background Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.110	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	77.36	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	7.3	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	750.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.098	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5-8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	380.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,600	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	2,718	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.65	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.84	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	20.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	9.3	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-1
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.0	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.050	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	74.30	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.6	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	81.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.02	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.280	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.1	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	39.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	380	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	749	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	4.30	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.95	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.5	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-12R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.071	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	77.18	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	14.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	15,000.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.50	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	7,400.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	24,000	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	34,070	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.45	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.53	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	34.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.037	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-16
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.610	Report	mg/L	Grab	Quarterly	0.02	SM4500F C	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	82.58	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	2.2	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	24.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	1.90	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.042	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	13.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	410	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	748	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.65	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	3.11	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	7.5	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.4	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-21R
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.170	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	76.82	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.9	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	350.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	0.33	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.260	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	7.0	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	230.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,000	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	2,209	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.10	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.66	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.8	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	5.6	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We are currently in the process of resolving this issue with FDEP.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-27
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	0.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.250	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	82.58	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We are currently in the process of resolving this issue with FDEP.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X: Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	11.0	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	1,800.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	2.20	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010 U	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	1,100.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	4,200	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	6,710	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	7.30	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.24	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	18.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.038	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-28
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.100	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	73.94	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on r226/228, sodium and gross alpha this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	3.8	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	110.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	3.10	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.048	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.6	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	66.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	2,300	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	2,540	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	0.45	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.99	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	9.8	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	6.9	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-29
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes ___ No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	0.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.120	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	77.18	Report	DEG.F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	1.6	5.0	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	400.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	25.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.068	10.0	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.7	6.5 - 8.5	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	330.0	160	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,900	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	2,817	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	2.90	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	0.61	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	5.0	15.0	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	6.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	7.4	10.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	2.0	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	4.0	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWC-IF2
Well Type: Compliance Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0	5.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	15.0	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	51.0	100.0	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	2.0	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.1	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.260	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	0.2	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	79.16	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

We exceeded the limits on sodium this quarter. We are currently discussing with FDEP to resolve.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	16.0	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	340.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	5.70	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.074	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.8	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	200.0	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	1,100	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	1,933	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	1.50	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	1.83	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	34.0	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	220.0	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.160	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWI-2R2
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling [X] Yes [ ] No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.140	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.360	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	78.26	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Radium 226 and 228	11503	0.5	Report	PCI/L	Grab	Quarterly		Calculated	Peristaltic Pump	N
Chloride (as Cl)	00940	13.0	Report	mg/L	Grab	Quarterly	0.05	EPA 300.0	Peristaltic Pump	N
Iron, Total Recoverable	00980	4.00	Report	mg/L	Grab	Quarterly	0.02	EPA 200.7	Peristaltic Pump	N
Nitrogen, Nitrate, Total (as NO3)	71850	0.010	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
pH *	00400	6.9	Report	SU	Grab	Quarterly		DEP FT1100	Peristaltic Pump	N
Sodium, Total Recoverable	00923	8.7	Report	mg/L	Grab	Quarterly	0.01	EPA 200.7	Peristaltic Pump	N
Solids, Total Dissolved (TDS)	70295	320	Report	mg/L	Grab	Quarterly	10	SM2540C	Peristaltic Pump	N
Specific Conductance *	00095	684	Report	MMHOS/CM	In-Situ	Quarterly		DEP FT1200	Peristaltic Pump	N
Turbidity *	00700	20.00	Report	NTU	In-Situ	Quarterly		DEP FT1600	Peristaltic Pump	N
Water Level Relative to NGVD	82545	2.17	Report	feet	In-Situ	Quarterly		DEP FS2211	Peristaltic Pump	N
Alpha, Gross Particle Activity	80045	2.6	Report	PCI/L	Grab	Quarterly		EPA 00-02/EPA 900.0	Peristaltic Pump	N
Antimony, Total Recoverable	01268	1.0 U	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Arsenic, Total Recoverable	00978	1.0 U	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Barium, Total Recoverable	01009	0.005	Report	mg/L	Grab	Quarterly	0.005	EPA 200.7	Peristaltic Pump	N
Beryllium, Total Recoverable	00998	0.1 U	Report	ug/L	Grab	Quarterly	0.1	EPA 200.7	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Crystal River Energy Complex
Permit Number FLA016960
County: Citrus

Date Sample Obtained: 10/09/2009
Monitoring Well ID: MWI-7R
Well Type: Intermediate Monitor Well
Ground Water Class:

Monitoring Period: From: 10/01/2009 To: 12/31/2009

Was the well pumped before sampling X Yes No

Parameter	PARM Code	Sample Measureme	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Cadmium, Total Recoverable	01113	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Lead, Total Recoverable	01114	1.0 U	Report	ug/L	Grab	Quarterly	1	SM3113B	Peristaltic Pump	N
Nickel, Total Recoverable	01074	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 200.7	Peristaltic Pump	N
Thallium, Total Recoverable	00982	1.0 U	Report	ug/L	Grab	Quarterly	1	EPA 279.2	Peristaltic Pump	N
Oxygen, Dissolved (DO) *	00300	0.2	Report	mg/L	In-Situ	Quarterly		DEP FT1500	Peristaltic Pump	N
Zinc, Total Recoverable	01094	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Fluoride, Total (as F)	00951	0.160	Report	mg/L	Grab	Quarterly	0.01	EPA 300.0	Peristaltic Pump	N
Cyanide, Total	78248	0.005 U	Report	mg/L	Grab	Quarterly	0.005	SM4500 CN	Peristaltic Pump	N
Copper, Total Recoverable	01119	0.003 U	Report	mg/L	Grab	Quarterly	0.003	EPA 200.7	Peristaltic Pump	N
Temperature, Water *	00011	78.80	Report	DEG F	In-Situ	Quarterly		DEP FT1400	Peristaltic Pump	N

* The field parameters shall be sampled per DEP-SOP-001/01, FS 2200 Groundwater Sampling, Figure FS 2200-2 Groundwater Purging Procedure and recorded on Form FD 9000-24, Groundwater Sampling Log (both documents attached to this permit). The sampling logs shall be submitted with each groundwater Part D DMR. The field parameters to be reported on Part D of GW DMR shall be the last sample recorded on FD 9000-24.

COMMENTS AND EXPLANATIONS (Reference all attachments here):

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 30, 2009
Project No: 97128

Laboratory Report

Project Name	Quarterly Land Application Analyses - Crystal River Site
Sample Description	EFF-1
Matrix	Wastewater
SAL Sample Number	97128.01
Date/Time Collected	11/09/09 08:15
Date/Time Received	11/09/09 12:08

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Specific Conductance	umhos/cm	757	DEP FT1200		11/09/09 08:15		LRW
pH	Units	8.1	DEP FT1100		11/09/09 08:15		LRW
Inorganics							
Chloride	mg/l	30	EPA 300.0	0.05	11/10/09 18:01		VWC
Specific Conductance	umhos/cm	806	SM 2510B	0.5	11/10/09 12:51		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	11/16/09 14:50	11/16/09 12:15	JSB
Hexane Extractable Material, Total	mg/l	1.5 I	EPA 1664	1.3	11/12/09 10:00	11/10/09 10:00	CDD
Total Dissolved Solids	mg/l	380	SM 2540C	10	11/11/09 14:20	11/10/09 11:10	EPL
Metals							
Arsenic	mg/l	0.024	SM 3113B	0.001	11/19/09 11:06	11/18/09 11:45	MKB
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	11/12/09 18:17	11/12/09 11:50	HWS
Cadmium	mg/l	0.0015 I	EPA 200.7	0.001	11/12/09 18:17	11/12/09 11:50	HWS
Chromium	mg/l	0.004 U	EPA 200.7	0.004	11/12/09 18:17	11/12/09 09:50	HWS
Copper	mg/l	0.016	EPA 200.7	0.003	11/12/09 18:17	11/12/09 11:50	HWS
Iron	mg/l	2.2	EPA 200.7	0.02	11/12/09 18:17	11/12/09 11:50	HWS
Mercury	mg/l	0.0001 U	EPA 245.1	0.0001	11/10/09 15:12	11/10/09 10:40	MKB
Sodium	mg/l	24	EPA 200.7	0.1	11/13/09 14:51		HWS
Nickel	mg/l	0.0030 I	EPA 200.7	0.001	11/12/09 18:17	11/12/09 18:17	HWS
Lead	mg/l	0.001 U	EPA 200.7	0.001	11/12/09 18:17	11/12/09 11:50	HWS
Antimony	mg/l	0.01 U	EPA 200.7	0.01	11/12/09 18:17	11/12/09 11:50	HWS
Selenium	mg/l	0.05 U	EPA 200.7	0.05	11/12/09 18:17	11/12/09 11:50	HWS
Thallium	mg/l	0.005 U	EPA 200.7	0.005	11/12/09 18:17	11/12/09 11:50	HWS
Zinc	mg/l	0.011 I	EPA 200.7	0.003	11/12/09 18:17	11/12/09 11:50	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.8±2.1 U1	EPA 00-02	2.8	11/20/09 08:48	11/18/09 09:30	ARM
Radium-226/228 Combined	pCi/l	1.2±0.4	Calculation	0.5	11/30/09 10:00	11/18/09 13:00	ARM
Radium-226	pCi/l	0.4±0.1	EPA 903.1	0.19	11/27/09 15:00	11/18/09 13:00	ARM
Radium-228	pCi/l	0.8±0.4	EPA RA-05	0.5	11/25/09 15:21	11/18/09 13:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 30, 2009
Project No: 97128

Laboratory Report

Footnotes

*	Test results presented in this report meet all the requirements of the NELAC standards.
**	A statement of estimated uncertainty of test results is available upon request.
***	For methods marked with ***, all QC criteria have been met for this method which is equivalent to a SAL certified method.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Analyte was undetected. Indicated concentration is method detection limit.
U1	Analyte was not detected; indicated concentration is method detection limit. Radiochemistry MDL is sample specific and matrix dependent.

FDOH Laboratory No. E84129
NELAP Accredited

Approved By: Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 97120

Client Name: Progress Energy, Inc.

Contact / Phone: Ron Johnson

Project Name / Location: Quarterly Land Application Analyses - Crystal River Site

Samplers: (Signature) Lay Ward

Matrix Codes:
DW-Drinking Water WW-Wastewater
SW-SurfaceWater SL-Sludge SO-Soil
GW-Groundwater SA-Saline Water O-Other
R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	1LP, Cool 4°C TDS, Cl, conductivity	250ml P, HNO_3 Sb, As, Be, Cd, Cu, Cr, Fe, Pb, Hg, Ni, Se, Na, Tl, Zn	250mL P, NaOH Cyanide	1/2 Gallon Jug, HNO_3 Gross alpha, Radium 226+228	1LG, HCl HEM (Total)	125mL G, HCl HEM (Total)			No. of Containers (Total per each location)
01	EFF-1	11/9/09	5815	WW		X	1	1	1	1	1	1			6

Containers Prepared/ Relinquished:	Date/Time:	Received:	Date/Time:
HH	9-30-09 1500	Lay Ward	11/9/09 0800
Relinquished: Lay Ward	Date/Time: 11/9/09 1208	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:
Relinquished:	Date/Time:	Received:	Date/Time:

Seal intact? Y N N/A
Samples intact upon arrival? Y N N/A
Received on ice? Temp_____ Y N N/A
Proper preservatives indicated? Y N N/A
Rec'd within holding time? Y N N/A
Volatiles rec'd w/out headspace? Y N N/A
Proper containers used? Y N N/A

Instructions / Remarks

Field Measurements: pH

Chain of Custody.xls
Rev.Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

WASTEWATER SAMPLING LOG

Client Name:	Progress Energy - Crystal River	Location:	EFF-1	Contact:	Ron Johnson
				Phone:	
Date of Sample:	11/9/09	SAL Project #	97128	Project Name:	Quarterly Land Application

SAL Audit Performed:	Y N	Auditor Name:		Client Representative on Site?	Y N	Rep. Name:	
		Signature:				Signature:	

SAMPLE DATA

Sampled By:	SAL ~~Client~~	Compositor Belongs To:	~~SAL~~ ~~Client~~ N/A	COMP Bottle Belongs To:	~~SAL~~ ~~Client~~ N/A
Compositor ID:		Bottle ID			
Intake Tubing Type:	PP PE NP TL TT SI	IntakeTubing Lot:		Pump Tubing Lot:	

COMPOSITE DATA Composite ID Number:

START	Date:		Time:		Compositor Set-up By:	
STOP	Date:		Time:		Compositor Picked-up By:	

Composite Type:	Time Flow Continuous	Collect Sample Every:		Minutes Gallons
Calibrated Sample Volume:		mLs		
Programmed Number of Samples:		Actual Number of Samples Collected:		
Final Compositor Temperature:		°C	Ice Present in Compositor at Pick-up?	Yes No

GRAB SAMPLE DATA Grab ID Number: .01

Date Collected:	11/9/09	Time Collected:	0815	Collected By:	LM

FIELD PARAMETERS

PARAMETER	READING	UNITS	PERMIT LIMIT
pH	8.1	SU	
Temperature	25.9	°C	Report Only
Specific Conductance	757		
Preservation Checked in Field?	Y N	Checked By:	
List any Preservatives Added in Field:			
Comments:			

Sampler(s) Signature:	Larry West	Date	11/9/09
		Date	
Reviewed By:		Date:	

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110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-1
Matrix	Groundwater
SAL Sample Number	96319.01
Date/Time Collected	10/09/09 10:04
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	20.10			10/09/09 10:03		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.20			10/09/09 10:03		LRW
Depth to Water (below Top of Casing)	ft.	4.36	DEP FS2211		10/09/09 10:03		LRW
Specific Conductance	umhos/cm	2,718	DEP FT1200		10/09/09 10:03		LRW
Water Elevation	ft., NGVD	2.84	DEP FS2211		10/09/09 10:03		LRW
Water Temperature	C	23.5	DEP FT1400		10/09/09 10:03		LRW
pH	Units	7.0	DEP FT1100		10/09/09 10:03		LRW
Dissolved Oxygen	mg/l	0.0	DEP FT1500		10/09/09 10:03		LRW
Turbidity	NTU	0.65	DEP FT1600		10/09/09 10:03		LRW
Inorganics							
Chloride	mg/l	750	EPA 300.0	0.05	10/12/09 12:56		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/10/09 12:30	10/10/09 08:55	EPL
Fluoride	mg/l	0.050	EPA 300.0	0.01	10/09/09 15:51		MEJ
Nitrate (as N)	mg/l	0.098	EPA 300.0	0.01	10/09/09 15:51		MEJ
Total Dissolved Solids	mg/l	1,600	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0093	SM 3113B	0.001	10/20/09 11:54	10/12/09 10:00	SMW
Barium	mg/l	0.012 I	EPA 200.7	0.005	10/21/09 18:42	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/21/09 18:42	10/15/09 10:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/21/09 18:42	10/15/09 10:40	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/21/09 18:42	10/15/09 10:40	HWS
Iron	mg/l	3.1	EPA 200.7	0.02	10/21/09 18:42	10/15/09 10:40	HWS
Sodium	mg/l	380	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/21/09 18:42	10/15/09 10:40	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/20/09 12:23	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/21/09 18:42	10/21/09 14:15	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	20±3.0	EPA 00-02	2.8	10/29/09 08:05	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	7.3±0.5	Calculation	0.05	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	7.3±0.5	EPA 903.1	0.05	10/26/09 10:56	10/19/09 14:00	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	10/28/09 10:59	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
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SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWI-2R2
Matrix	Groundwater
SAL Sample Number	96319.02
Date/Time Collected	10/09/09 06:47
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	22.30			10/09/09 06:46		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.12			10/09/09 06:46		LRW
Depth to Water (below Top of Casing)	ft.	8.29	DEP FS2211		10/09/09 06:46		LRW
Specific Conductance	umhos/cm	1,933	DEP FT1200		10/09/09 06:46		LRW
Water Elevation	ft., NGVD	1.83	DEP FS2211		10/09/09 06:46		LRW
Water Temperature	C	25.7	DEP FT1400		10/09/09 06:46		LRW
pH	Units	6.8	DEP FT1100		10/09/09 06:46		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/09/09 06:46		LRW
Turbidity	NTU	1.5	DEP FT1600		10/09/09 06:46		LRW
Inorganics							
Chloride	mg/l	340	EPA 300.0	0.05	10/12/09 13:13		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/10/09 12:30	10/10/09 08:55	EPL
Fluoride	mg/l	0.36	EPA 300.0	0.01	10/09/09 16:08		MEJ
Nitrate (as N)	mg/l	0.074	EPA 300.0	0.01	10/09/09 16:08		MEJ
Total Dissolved Solids	mg/l	1,100	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.22	SM 3113B	0.001	10/20/09 11:54	10/12/09 10:00	SMW
Barium	mg/l	0.16	EPA 200.7	0.005	10/16/09 12:06	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/16/09 12:06	10/15/09 10:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Copper	mg/l	0.0078 I	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Iron	mg/l	5.7	EPA 200.7	0.02	10/16/09 12:06	10/15/09 10:40	HWS
Sodium	mg/l	200	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/20/09 12:23	10/12/09 10:00	SMW
Antimony	mg/l	0.0012 I	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.14	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	34±3.3	EPA 00-02	2.8	10/29/09 08:05	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	16±0.7	Calculation	0.03	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	15±0.7	EPA 903.1	0.03	10/26/09 10:56	10/19/09 14:00	ARM
Radium-228	pCi/l	0.7±0.2	EPA RA-05	0.3	10/28/09 11:00	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWI-7R
Matrix	Groundwater
SAL Sample Number	96319.03
Date/Time Collected	10/09/09 08:59
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	20.00			10/09/09 08:58		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.63			10/09/09 08:58		LRW
Depth to Water (below Top of Casing)	ft.	5.46	DEP FS2211		10/09/09 08:58		LRW
Specific Conductance	umhos/cm	684	DEP FT1200		10/09/09 08:58		LRW
Water Elevation	ft., NGVD	2.17	DEP FS2211		10/09/09 08:58		LRW
Water Temperature	C	26.0	DEP FT1400		10/09/09 08:58		LRW
pH	Units	6.9	DEP FT1100		10/09/09 08:58		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/09/09 08:58		LRW
Turbidity	NTU	20	DEP FT1600		10/09/09 08:58		LRW
Inorganics							
Chloride	mg/l	13	EPA 300.0	0.05	10/09/09 16:25		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/10/09 12:30	10/10/09 08:55	EPL
Fluoride	mg/l	0.16	EPA 300.0	0.01	10/09/09 16:25		MEJ
Nitrate (as N)	mg/l	0.037 I	EPA 300.0	0.01	10/09/09 16:25		MEJ
Total Dissolved Solids	mg/l	320	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.001 U	SM 3113B	0.001	10/20/09 11:54	10/12/09 10:00	SMW
Barium	mg/l	0.011 I	EPA 200.7	0.005	10/16/09 12:06	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/16/09 12:06	10/15/09 10:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Iron	mg/l	4.0	EPA 200.7	0.02	10/16/09 12:06	10/15/09 10:40	HWS
Sodium	mg/l	8.7	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/20/09 12:23	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.6±2.0	EPA 900.0	2.0	10/17/09 09:10	10/12/09 08:30	JMK
Radium-226/228 Combined	pCi/l	0.5±0.1	Calculation	0.08	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	0.5±0.1	EPA 903.1	0.08	10/26/09 10:56	10/19/09 14:00	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	10/28/09 11:00	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-12R
Matrix	Groundwater
SAL Sample Number	96319.04
Date/Time Collected	10/09/09 12:40
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	22.60			10/09/09 12:39		LRW
Reference Elevation (Top of Casing)	ft., NGVD	9.49			10/09/09 12:39		LRW
Depth to Water (below Top of Casing)	ft.	5.54	DEP FS2211		10/09/09 12:39		LRW
Specific Conductance	umhos/cm	749	DEP FT1200		10/09/09 12:39		LRW
Water Elevation	ft., NGVD	3.95	DEP FS2211		10/09/09 12:39		LRW
Water Temperature	C	25.1	DEP FT1400		10/09/09 12:39		LRW
pH	Units	7.1	DEP FT1100		10/09/09 12:39		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/09/09 12:39		LRW
Turbidity	NTU	4.3	DEP FT1600		10/09/09 12:39		LRW
Inorganics							
Chloride	mg/l	81	EPA 300.0	0.05	10/12/09 13:30		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/10/09 12:30	10/10/09 08:55	EPL
Fluoride	mg/l	0.071	EPA 300.0	0.01	10/09/09 16:42		MEJ
Nitrate (as N)	mg/l	0.28	EPA 300.0	0.01	10/09/09 16:42		MEJ
Total Dissolved Solids	mg/l	380	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.001 U	SM 3113B	0.001	10/20/09 11:54	10/12/09 10:00	SMW
Barium	mg/l	0.0089 I	EPA 200.7	0.005	10/16/09 12:06	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/16/09 12:06	10/15/09 10:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Iron	mg/l	0.071 I	EPA 200.7	0.02	10/16/09 12:06	10/15/09 10:40	HWS
Sodium	mg/l	39	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/20/09 12:23	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	5.5±2.2	EPA 900.0	2.0	10/17/09 09:38	10/12/09 08:30	JMK
Radium-226/228 Combined	pCi/l	2.6±0.3	Calculation	0.04	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	2.6±0.3	EPA 903.1	0.04	10/26/09 10:56	10/19/09 14:00	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	10/28/09 11:00	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-16
Matrix	Groundwater
SAL Sample Number	96319.05
Date/Time Collected	10/09/09 07:48
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	18.80			10/09/09 07:47		LRW
Reference Elevation (Top of Casing)	ft., NGVD	13.36			10/09/09 07:47		LRW
Depth to Water (below Top of Casing)	ft.	11.83	DEP FS2211		10/09/09 07:47		LRW
Specific Conductance	umhos/cm	34,070	DEP FT1200		10/09/09 07:47		LRW
Water Elevation	ft., NGVD	1.53	DEP FS2211		10/09/09 07:47		LRW
Water Temperature	C	28.1	DEP FT1400		10/09/09 07:47		LRW
pH	Units	7.0	DEP FT1100		10/09/09 07:47		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/09/09 07:47		LRW
Turbidity	NTU	0.45	DEP FT1600		10/09/09 07:47		LRW
Inorganics							
Chloride	mg/l	15,000	EPA 300.0	0.05	10/09/09 16:59		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/10/09 12:30	10/10/09 08:55	EPL
Fluoride	mg/l	0.61	SM 4500F C	0.02	10/15/09 16:20		EPL
Nitrate (as N)	mg/l	0.01 U	EPA 353.2	0.01	10/09/09 15:17		EPL
Total Dissolved Solids	mg/l	24,000	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.001 U	SM 3113B	0.001	10/22/09 10:01	10/12/09 10:00	SMW
Barium	mg/l	0.037	EPA 200.7	0.005	10/16/09 12:06	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/16/09 12:06	10/15/09 10:40	HWS
Cadmium	mg/l	0.0012 I	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Copper	mg/l	0.0046 I	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Iron	mg/l	1.5	EPA 200.7	0.02	10/16/09 12:06	10/15/09 10:40	HWS
Sodium	mg/l	7,400	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Lead	mg/l	0.0032 I	SM 3113B	0.001	10/21/09 14:11	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	34±3.3	EPA 00-02	2.8	10/29/09 08:05	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	14±0.8	Calculation	0.04	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	13±0.8	EPA 903.1	0.04	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	1.0±0.2	EPA RA-05	0.3	10/28/09 11:00	10/19/09 14:00	JMK

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-21R
Matrix	Groundwater
SAL Sample Number	96319.06
Date/Time Collected	10/09/09 07:21
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.90			10/09/09 07:20		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.49			10/09/09 07:20		LRW
Depth to Water (below Top of Casing)	ft.	7.38	DEP FS2211		10/09/09 07:20		LRW
Specific Conductance	umhos/cm	748	DEP FT1200		10/09/09 07:20		LRW
Water Elevation	ft., NGVD	3.11	DEP FS2211		10/09/09 07:20		LRW
Water Temperature	C	24.9	DEP FT1400		10/09/09 07:20		LRW
pH	Units	6.9	DEP FT1100		10/09/09 07:20		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/09/09 07:20		LRW
Turbidity	NTU	0.65	DEP FT1600		10/09/09 07:20		LRW
Inorganics							
Chloride	mg/l	24	EPA 300.0	0.05	10/09/09 17:16		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/10/09 12:30	10/10/09 08:55	EPL
Fluoride	mg/l	0.17	EPA 300.0	0.01	10/09/09 17:16		MEJ
Nitrate (as N)	mg/l	0.042	EPA 300.0	0.01	10/09/09 17:16		MEJ
Total Dissolved Solids	mg/l	410	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0054	SM 3113B	0.001	10/22/09 10:01	10/12/09 10:00	SMW
Barium	mg/l	0.016 I	EPA 200.7	0.005	10/16/09 12:06	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/16/09 12:06	10/15/09 10:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Iron	mg/l	1.9	EPA 200.7	0.02	10/16/09 12:06	10/15/09 10:40	HWS
Sodium	mg/l	13	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/20/09 12:23	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.0030 I	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	7.5±2.9	EPA 900.0	2.0	10/17/09 09:39	10/12/09 08:30	JMK
Radium-226/228 Combined	pCi/l	2.2±0.4	Calculation	0.05	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	2.2±0.4	EPA 903.1	0.05	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	10/28/09 11:00	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-27
Matrix	Groundwater
SAL Sample Number	96319.07
Date/Time Collected	10/09/09 08:24
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	12.80			10/09/09 08:23		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.00			10/09/09 08:23		LRW
Depth to Water (below Top of Casing)	ft.	8.34	DEP FS2211		10/09/09 08:23		LRW
Specific Conductance	umhos/cm	2,209	DEP FT1200		10/09/09 08:23		LRW
Water Elevation	ft., NGVD	2.66	DEP FS2211		10/09/09 08:23		LRW
Water Temperature	C	28.1	DEP FT1400		10/09/09 08:23		LRW
pH	Units	7.0	DEP FT1100		10/09/09 08:23		LRW
Dissolved Oxygen	mg/l	0.2	DEP FT1500		10/09/09 08:23		LRW
Turbidity	NTU	1.1	DEP FT1600		10/09/09 08:23		LRW
Inorganics							
Chloride	mg/l	350	EPA 300.0	0.05	10/12/09 13:47		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/10/09 12:30	10/10/09 08:55	EPL
Fluoride	mg/l	0.25	EPA 300.0	0.01	10/09/09 17:33		MEJ
Nitrate (as N)	mg/l	0.26	EPA 300.0	0.01	10/09/09 17:33		MEJ
Total Dissolved Solids	mg/l	1,000	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0056	SM 3113B	0.001	10/22/09 10:01	10/12/09 10:00	SMW
Barium	mg/l	0.014 I	EPA 200.7	0.005	10/16/09 12:06	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/16/09 12:06	10/15/09 10:40	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Iron	mg/l	0.33	EPA 200.7	0.02	10/16/09 12:06	10/15/09 10:40	HWS
Sodium	mg/l	230	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.037	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/21/09 14:11	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.8±2.2 U1	EPA 00-02	2.8	10/29/09 08:05	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	0.9±0.2	*Calculation*	0.06	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	0.9±0.2	EPA 903.1	0.06	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	0.2±0.2 U1	EPA RA-05	0.2	10/28/09 13:57	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-28
Matrix	Groundwater
SAL Sample Number	96319.08
Date/Time Collected	10/09/09 09:43
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.60			10/09/09 09:42		LRW
Reference Elevation (Top of Casing)	ft., NGVD	8.07			10/09/09 09:42		LRW
Depth to Water (below Top of Casing)	ft.	5.83	DEP FS2211		10/09/09 09:42		LRW
Specific Conductance	umhos/cm	6,710	DEP FT1200		10/09/09 09:42		LRW
Water Elevation	ft., NGVD	2.24	DEP FS2211		10/09/09 09:42		LRW
Water Temperature	C	23.3	DEP FT1400		10/09/09 09:42		LRW
pH	Units	6.9	DEP FT1100		10/09/09 09:42		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/09/09 09:42		LRW
Turbidity	NTU	7.3	DEP FT1600		10/09/09 09:42		LRW
Inorganics							
Chloride	mg/l	1,800	EPA 300.0	0.05	10/12/09 14:04		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/15/09 11:40	10/13/09 10:00	EPL
Fluoride	mg/l	0.10	EPA 300.0	0.01	10/09/09 17:50		MEJ
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/09/09 17:50		MEJ
Total Dissolved Solids	mg/l	4,200	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0025 I	SM 3113B	0.001	10/22/09 10:01	10/12/09 10:00	SMW
Barium	mg/l	0.038	EPA 200.7	0.005	10/16/09 12:06	10/15/09 10:40	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/16/09 12:06	10/15/09 10:40	HWS
Cadmium	mg/l	0.0013 I	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Iron	mg/l	2.2	EPA 200.7	0.02	10/16/09 12:06	10/15/09 10:40	HWS
Sodium	mg/l	1,100	EPA 200.7	0.01	10/20/09 12:19		HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/16/09 12:06	10/15/09 10:40	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/21/09 14:11	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/16/09 12:06	10/15/09 10:40	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	18±2.8	EPA 00-02	2.8	10/29/09 08:06	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	11±0.6	Calculation	0.06	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	11±0.6	EPA 903.1	0.06	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	0.2±0.2 U1	EPA RA-05	0.2	10/28/09 13:57	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-29
Matrix	Groundwater
SAL Sample Number	96319.09
Date/Time Collected	10/09/09 11:00
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	26.70			10/09/09 10:59		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.56			10/09/09 10:59		LRW
Depth to Water (below Top of Casing)	ft.	9.57	DEP FS2211		10/09/09 10:59		LRW
Specific Conductance	umhos/cm	2,540	DEP FT1200		10/09/09 10:59		LRW
Water Elevation	ft., NGVD	1.99	DEP FS2211		10/09/09 10:59		LRW
Water Temperature	C	25.1	DEP FT1400		10/09/09 10:59		LRW
pH	Units	6.6	DEP FT1100		10/09/09 10:59		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/09/09 10:59		LRW
Turbidity	NTU	0.45	DEP FT1600		10/09/09 10:59		LRW
Inorganics							
Chloride	mg/l	110	EPA 300.0	0.05	10/12/09 14:21		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/15/09 11:40	10/13/09 10:00	EPL
Fluoride	mg/l	0.12	EPA 300.0	0.01	10/09/09 18:41		MEJ
Nitrate (as N)	mg/l	0.048	EPA 300.0	0.01	10/09/09 18:41		MEJ
Total Dissolved Solids	mg/l	2,300	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0069	SM 3113B	0.001	10/22/09 10:01	10/12/09 10:00	SMW
Barium	mg/l	0.019 I	EPA 200.7	0.005	10/19/09 16:28	10/15/09 16:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/19/09 16:28	10/15/09 16:30	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Copper	mg/l	0.0058 I	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Iron	mg/l	3.1	EPA 200.7	0.02	10/19/09 16:28	10/15/09 16:30	HWS
Sodium	mg/l	66	EPA 200.7	0.01	10/14/09 16:47	10/14/09 16:47	HWS
Nickel	mg/l	0.0016 I	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/21/09 14:11	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	9.8±2.5	EPA 00-02	2.8	10/29/09 08:22	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	3.8±0.4	Calculation	0.06	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	3.8±0.4	EPA 903.1	0.06	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	0.2±0.2 U1	EPA RA-05	0.2	10/28/09 13:57	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-1F2
Matrix	Groundwater
SAL Sample Number	96319.10
Date/Time Collected	10/09/09 11:37
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	16.40			10/09/09 11:36		LRW
Reference Elevation (Top of Casing)	ft., NGVD	11.64			10/09/09 11:36		LRW
Depth to Water (below Top of Casing)	ft.	11.03	DEP FS2211		10/09/09 11:36		LRW
Specific Conductance	umhos/cm	2,817	DEP FT1200		10/09/09 11:36		LRW
Water Elevation	ft., NGVD	0.61	DEP FS2211		10/09/09 11:36		LRW
Water Temperature	C	26.2	DEP FT1400		10/09/09 11:36		LRW
pH	Units	6.7	DEP FT1100		10/09/09 11:36		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/09/09 11:36		LRW
Turbidity	NTU	2.9	DEP FT1600		10/09/09 11:36		LRW
Inorganics							
Chloride	mg/l	400	EPA 300.0	0.05	10/12/09 14:38		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/15/09 11:40	10/13/09 10:00	EPL
Fluoride	mg/l	0.26	EPA 300.0	0.01	10/09/09 18:58		MEJ
Nitrate (as N)	mg/l	0.068	EPA 300.0	0.01	10/09/09 18:58		MEJ
Total Dissolved Solids	mg/l	1,900	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0074	SM 3113B	0.001	10/22/09 10:01	10/12/09 10:00	SMW
Barium	mg/l	0.015 I	EPA 200.7	0.005	10/19/09 16:28	10/15/09 16:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/19/09 16:28	10/15/09 16:30	HWS
Cadmium	mg/l	0.0010 I	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Copper	mg/l	0.0034 I	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Iron	mg/l	25	EPA 200.7	0.02	10/19/09 16:28	10/15/09 16:30	HWS
Sodium	mg/l	330	EPA 200.7	0.01	10/14/09 16:47	10/14/09 16:47	HWS
Nickel	mg/l	0.051	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/23/09 09:58	10/12/09 10:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Radiochemistry							
Gross Alpha (Incl: Uranium)	pCi/l	5.0±2.3	EPA 00-02	2.8	10/29/09 11:50	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	1.6±0.3	Calculation	0.03	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	1.6±0.3	EPA 903.1	0.03	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	10/28/09 13:57	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

Francis I. Daniels, Laboratory Director
Leslie C. Boardman, Q. A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.
110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWC-21R- Duplicate
Matrix	Groundwater
SAL Sample Number	96319.11
Date/Time Collected	10/09/09 07:21
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	21.90			10/09/09 07:20		LRW
Reference Elevation (Top of Casing)	ft., NGVD	10.49			10/09/09 07:20		LRW
Depth to Water (below Top of Casing)	ft.	7.38	DEP FS2211		10/09/09 07:20		LRW
Specific Conductance	umhos/cm	748	DEP FT1200		10/09/09 07:20		LRW
Water Elevation	ft., NGVD	3.11	DEP FS2211		10/09/09 07:20		LRW
Water Temperature	C	24.9	DEP FT1400		10/09/09 07:20		LRW
pH	Units	6.9	DEP FT1100		10/09/09 07:20		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/09/09 07:20		LRW
Turbidity	NTU	0.65	DEP FT1600		10/09/09 07:20		LRW
Inorganics							
Chloride	mg/l	24	EPA 300.0	0.05	10/09/09 19:15		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/15/09 11:40	10/13/09 10:00	EPL
Fluoride	mg/l	0.14	EPA 300.0	0.01	10/09/09 19:15		MEJ
Nitrate (as N)	mg/l	0.034 I	EPA 300.0	0.01	10/09/09 19:15		MEJ
Total Dissolved Solids	mg/l	420	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0045	SM 3113B	0.001	10/22/09 10:01	10/12/09 10:00	SMW
Barium	mg/l	0.015 I	EPA 200.7	0.005	10/19/09 16:28	10/15/09 16:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/19/09 16:28	10/15/09 16:30	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Iron	mg/l	1.6	EPA 200.7	0.02	10/19/09 16:28	10/15/09 16:30	HWS
Sodium	mg/l	15	EPA 200.7	0.01	10/14/09 16:47	10/14/09 16:47	HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/19/09 10:11	10/12/09 10:00	MKB
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/12/09 10:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/12/09 10:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	8.7±2.5	EPA 00-02	2.8	10/29/09 11:50	10/27/09 09:30	ARM
Radium-226/228 Combined	pCi/l	2.2±0.3	Calculation	0.06	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	2.2±0.3	EPA 903.1	0.06	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	10/28/09 13:58	10/19/09 14:00	JMK

FDOH Laboratory No. E84129
NELAP Accredited

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	MWB-30
Matrix	Groundwater
SAL Sample Number	96319.12
Date/Time Collected	10/09/09 10:34
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Total Well Depth	ft.	18.70			10/09/09 10:33		LRW
Reference Elevation (Top of Casing)	ft., NGVD	7.67			10/09/09 10:33		LRW
Depth to Water (below Top of Casing)	ft.	5.37	DEP FS2211		10/09/09 10:33		LRW
Specific Conductance	umhos/cm	933	DEP FT1200		10/09/09 10:33		LRW
Water Elevation	ft., NGVD	2.30	DEP FS2211		10/09/09 10:33		LRW
Water Temperature	C	25.2	DEP FT1400		10/09/09 10:33		LRW
pH	Units	7.1	DEP FT1100		10/09/09 10:33		LRW
Dissolved Oxygen	mg/l	0.1	DEP FT1500		10/09/09 10:33		LRW
Turbidity	NTU	1.2	DEP FT1600		10/09/09 10:33		LRW
Inorganics							
Chloride	mg/l	150	EPA 300.0	0.05	10/12/09 14:55		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/15/09 11:40	10/14/09 08:25	EPL
Fluoride	mg/l	0.11	EPA 300.0	0.01	10/09/09 19:32		MEJ
Nitrate (as N)	mg/l	0.059	EPA 300.0	0.01	10/09/09 19:32		MEJ
Total Dissolved Solids	mg/l	470	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.0068	SM 3113B	0.001	10/22/09 10:01	10/19/09 12:00	SMW
Barium	mg/l	0.015 I	EPA 200.7	0.005	10/19/09 16:28	10/15/09 16:30	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/19/09 16:28	10/15/09 16:30	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Iron	mg/l	1.5	EPA 200.7	0.02	10/19/09 16:28	10/15/09 16:30	HWS
Sodium	mg/l	92	EPA 200.7	0.01	10/14/09 16:47	10/14/09 16:47	HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/19/09 16:28	10/15/09 16:30	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/23/09 09:58	10/19/09 12:00	SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37	10/19/09 12:00	SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42	10/19/09 12:00	SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/19/09 16:28	10/15/09 16:30	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	5.9±3.0	EPA 900.0	2.0	10/17/09 09:39	10/12/09 08:30	JMK
Radium-226/228 Combined	pCi/l	2.3±0.3	Calculation	0.05	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	1.9±0.3	EPA 903.1	0.05	10/26/09 12:40	10/19/09 14:00	ARM
Radium-228	pCi/l	0.4±0.2	EPA RA-05	0.3	10/28/09 13:58	10/19/09 14:00	JMK

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Project Name	Quarterly Monitoring Well Analyses - Crystal River Site
Sample Description	Equipment Blank
Matrix	Reagent Water
SAL Sample Number	96319.13
Date/Time Collected	10/09/09 06:25
Date/Time Received	10/09/09 14:36

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Field Parameter							
Specific Conductance	umhos/cm	6	DEP FT1200		10/09/09 06:25		LRW
Water Temperature	C	26.7	DEP FT1400		10/09/09 06:25		LRW
pH	Units	7.1	DEP FT1100		10/09/09 06:25		LRW
Dissolved Oxygen	mg/l	2.7	DEP FT1500		10/09/09 06:25		LRW
Turbidity	NTU	0.10	DEP FT1600		10/09/09 06:25		LRW
Inorganics							
Chloride	mg/l	0.05 U	EPA 300.0	0.05	10/09/09 19:49		MEJ
Cyanide, Total	mg/l	0.005 U	SM 4500 CN	0.005	10/15/09 11:40	10/13/09 10:00	EPL
Fluoride	mg/l	0.01 U	EPA 300.0	0.01	10/09/09 19:49		MEJ
Nitrate (as N)	mg/l	0.01 U	EPA 300.0	0.01	10/09/09 19:49		MEJ
Total Dissolved Solids	mg/l	10 U	SM 2540C	10	10/14/09 11:35	10/13/09 08:20	EPL
Metals							
Arsenic	mg/l	0.001 U	SM 3113B	0.001	10/23/09 14:17		SMW
Barium	mg/l	0.005 U	EPA 200.7	0.005	10/28/09 08:02	10/19/09 13:00	HWS
Beryllium	mg/l	0.0001 U	EPA 200.7	0.0001	10/28/09 08:02	10/19/09 13:00	HWS
Cadmium	mg/l	0.001 U	EPA 200.7	0.001	10/28/09 08:02	10/19/09 13:00	HWS
Copper	mg/l	0.003 U	EPA 200.7	0.003	10/28/09 08:02	10/19/09 13:00	HWS
Iron	mg/l	0.02 U	EPA 200.7	0.02	10/28/09 08:02	10/19/09 13:00	HWS
Sodium	mg/l	0.01 U	EPA 200.7	0.01	10/14/09 16:47	10/14/09 16:47	HWS
Nickel	mg/l	0.001 U	EPA 200.7	0.001	10/28/09 08:02	10/19/09 13:00	HWS
Lead	mg/l	0.001 U	SM 3113B	0.001	10/23/09 09:58		SMW
Antimony	mg/l	0.001 U	SM 3113B	0.001	10/21/09 10:37		SMW
Thallium	mg/l	0.001 U	EPA 279.2	0.001	10/19/09 14:42		SMW
Zinc	mg/l	0.003 U	EPA 200.7	0.003	10/28/09 08:02	10/19/09 13:00	HWS
Radiochemistry							
Gross Alpha (Incl. Uranium)	pCi/l	2.0±1.3 U1	EPA 900.0	2.0	10/17/09 08:37	10/12/09 08:30	JMK
Radium-226/228 Combined	pCi/l	0.3±0.2 U1	Calculation	0.3	10/29/09 08:30	10/19/09 14:00	ARM
Radium-226	pCi/l	0.08±0.05	EPA 903.1	0.03	10/26/09 15:37	10/19/09 14:00	ARM
Radium-228	pCi/l	0.3±0.2 U1	EPA RA-05	0.3	10/28/09 13:58	10/19/09 14:00	JMK

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Progress Energy Inc.
15760 West Power Line Street
Crystal River, FL 34428-

November 9, 2009
Project No: 96319

Laboratory Report

Footnotes

*	Test results presented in this report meet all the requirements of the NELAC standards.
**	A statement of estimated uncertainty of test results is available upon request.
***	For methods marked with ***, all QC criteria have been met for this method which is equivalent to a SAL certified method.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Analyte was undetected. Indicated concentration is method detection limit.
U1	Analyte was not detected; indicated concentration is method detection limit. Radiochemistry MDL is sample specific and matrix dependent.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 96319

Client Name	Contact / Phone:
Progress Energy, Inc.	Ron Johnson
Project Name / Location: Quarterly Monitoring Well Analyses - Crystal River Site	
Samplers: (Signature) Larry Ward	

Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water

PARAMETER / CONTAINER DESCRIPTION

SAL Use Only Sample No.	Sample Description	Date	Time	Matrix	Composite	Grab	1LP, Cool 4°C Chloride, TDS, NO_3, F	250ml P, HNO_3 Cu, Fe, Na, Sb, As, Ba, Be, Cd, Pb, Ni, Tl, Zn	250mL P, NaOH Cyanide	1/2 Gallon Jug, HNO_3 Gross alpha, Radium 226, Radium 228, Combined 226+228					No. of Containers (Total per each location)
01	MWC-1	10/9/09	1004	GW		X	1	1	1	2					5
02	MWI-2R2		0647	GW		X	1	1	1	2					5
03	MWI-7R		0859	GW		X	1	1	1	2					5
04	MWC-12R		1240	GW		X	1	1	1	2					5
05	MWC-16		0748	GW		X	1	1	1	2					5
06	MWC-21R		0721	GW		X	1	1	1	2					5
07	MWC-27		0824	GW		X	1	1	1	2					5
08	MWC-28		0943	GW		X	1	1	1	2					5
09	MWC-29		1100	GW		X	1	1	1	2					5
10	MWC-IF2		1137	GW		X	1	1	1	2					5
11	MW-21 Duplicate		0721	GW		X	1	1	1	2					5
12	MWB-30		1034	GW		X	1	1	1	2					5
13	Equipment Blank		0625	R		X	1	1	1	2					5

Relinquished:	Date/Time:	Received:	Date/Time:
Containers Prepared/ Relinquished:	1600 10-02-09	Larry Ward	10/7/09
Larry Ward	10/9/09 1434		

Seal intact? Y N N/A

Samples intact upon arrival? Y N N/A

Received on ice? Temp_____ Y N N/A

Proper preservatives indicated? Y N N/A

Rec'd within holding time? Y N N/A

Volatiles rec'd w/out headspace? Y N N/A

Proper containers used? Y N N/A

Instructions / Remarks

Field Measurements: Temperature, pH, Specific Conductance, Turbidity, Water Level, DO

Client needs to meet Drinking Water Limits.

SOUTHERN ANALYTICAL LABORATORIES, INC.

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GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-1	Sample ID	.01	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	4.36	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	20.10	REFERENCE ELEVATION (NGVD)	7.20	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.84		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (20.10 -) * 0.1632

ONE WELL VOLUME	2.54	1/4 WELL VOLUME	0.64	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0957	PURGE TIME END	1002	TOTAL PURGED	6.0	

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0957	3.0	3.0	0.50	4.39	7.0	23.5	2730	0.10	1.49	Clear	None
1000	1.50	4.50	"	4.39	7.0	23.5	2722	0.07	0.98	"	"
1003	1.50	6.0	"	4.39	7.0	23.5	2718	0.04	0.23	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Jay Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	1004	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/7/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWI-2R	Sample ID	.02	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	8.29	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	22.30	REFERENCE ELEVATION (NGVD)	10.12	GROUND WATER ELEVATION (REFERENCE-STATIC)	1.83		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (22.30 -) * 0.1632

ONE WELL VOLUME	2.28	1/4 WELL VOLUME	0.57	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0625	PURGE TIME END	0646	TOTAL PURGED	1.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0640	2.50	2.50	0.50	8.43	6.8	25.7	1922	0.27	5.73	clear	None
0643	1.50	4.0	"	8.43	6.8	25.7	1927	0.25	3.73	"	"
0646	1.50	5.50	"	8.43	6.8	25.7	1933	0.23	1.53	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Tony Ward		
TUBING MATERIAL CODE (CIRCLE ONE)		PP PE NP (TL) TT		SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0647	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?		(Y) N N/A		LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS		Clear							
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWI-7R	Sample ID	.03	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	5.44	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	20.00	REFERENCE ELEVATION (NGVD)	7.63	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.17	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (20.00 -) * 0.1632

ONE WELL VOLUME	2.37	1/4 WELL VOLUME	0.59	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0847	PURGE TIME END	0858	TOTAL PURGED	4.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0852	2.50	2.50	0.25	6.12	6.9	26.0	690	0.27	22.4	clear	None
0855	0.75	3.25	"	6.12	6.9	26.0	688	0.22	20.1	"	"
0858	0.75	4.0	"	6.12	6.9	26.0	684	0.19	19.4	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Jay Wood		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0854	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/8/04	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-12R	Sample ID	.04	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	5.54	PURGE PUMP CODE: PP GP IBP
TOTAL WELL DEPTH (Feet)	22.60	REFERENCE ELEVATION (NGVD)	9.49	GROUND WATER ELEVATION (REFERENCE-STATIC)	3.75		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (22.60 -) * 0.1632

ONE WELL VOLUME	2.78	1/4 WELL VOLUME	0.69	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1227	PURGE TIME END	1239	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1233	3.0	3.0	0.50	5.59	7.1	25.2	739	0.37	6.83	clear	clear
1236	1.50	4.50	"	5.59	7.0	25.2	743	0.18	6.17	"	"
1239	1.50	6.0	"	5.59	7.1	25.1	749	0.14	4.33	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Jay Wm		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	1240	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-16	Sample ID	.05	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	11.83	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	18.80	REFERENCE ELEVATION (NGVD)	13.36	GROUND WATER ELEVATION (REFERENCE-STATIC)	1.53	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (18.80 -) * 0.1632

ONE WELL VOLUME	1.13	1/4 WELL VOLUME	0.28	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0738	PURGE TIME END	0747	TOTAL PURGED	4.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0741	1.50	1.50	0.50	11.91	6.9	28.0	35970	0.36	0.78	Clear	None
0744	1.50	3.0	"	11.91	6.9	28.1	34020	0.22	0.69	"	"
0747	1.50	4.50	"	11.91	7.0	28.1	34070	0.17	0.43	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Zay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0748	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-21R	Sample ID	.06 + .11	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	7.38	PURGE PUMP CODE (PP) GP IBP
TOTAL WELL DEPTH (Feet)	21.90	REFERENCE ELEVATION (NGVD)	10.49	GROUND WATER ELEVATION (REFERENCE-STATIC)	3.11		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (21.90 -) * 0.1632

ONE WELL VOLUME	2.34	1/4 WELL VOLUME	0.59	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0709	PURGE TIME END	0720	TOTAL PURGED	5.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0714	2.50	2.50	0.50	7.42	6.9	24.9	741	0.21	1.01	clear	None
0717	1.50	4.00	"	7.42	6.9	24.9	745	0.19	0.72	"	"
0720	1.50	5.50	"	7.42	6.9	24.9	748	0.12	0.66	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Zoy Ward		
TUBING MATERIAL CODE (CIRCLE ONE)		PP PE NP (TL) TT		SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0721	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?		(Y) N N/A		LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS		Clear							
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-27	Sample ID	07	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	8.34	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	12.80	REFERENCE ELEVATION (NGVD)	11.00	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.66	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (12.80 -) * 0.1632

ONE WELL VOLUME	0.70	1/4 WELL VOLUME	0.17	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0814	PURGE TIME END	0823	TOTAL PURGED	2.25

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0817	0.75	0.75	0.28	8.43	7.0	28.0	~~22,120~~	0.34	1.36	Clear	None
0820	0.75	1.50	"	8.43	7.0	28.1	~~22100~~	0.24	1.21	"	"
0823	0.75	2.25	"	8.43	7.0	28.1	~~22090~~	0.22	1.10	"	"
							2,209 MN 11/09/09				

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Jay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)		
SAMPLING INITIATED	0824	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/08	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-28	Sample ID	08	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	5.83	PURGE PUMP CODE	(PP) GP IBP
TOTAL WELL DEPTH (Feet)	21.60	REFERENCE ELEVATION (NGVD)	8.07	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.24		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (21.60 -) * 0.1632

ONE WELL VOLUME	2.57	1/4 WELL VOLUME	0.64	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	0936	PURGE TIME END	0942	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0936	3.0	3.0	0.50	5.86	6.9	23.3	6710	0.20	22.0	Tank	None
0939	1.50	4.50	"	5.86	6.9	23.3	6710	0.16	11.5	"	"
0942	1.50	6.0	"	5.86	6.9	23.3	6710	0.12	7.33	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)						SAMPLER(S) SIGNATURES:	Zay Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT			SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	0943	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS			
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)	SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED							
WEATHER CONDITIONS	Clear								
COMMENTS									

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-29	Sample ID	.09	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK	Static Depth to Water (Feet)	9.57	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	26.70	REFERENCE ELEVATION (NGVD)	11.56	GROUND WATER ELEVATION (REFERENCE-STATIC)	1.99	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (26.70 -) * 0.1632

ONE WELL VOLUME	2.79	1/4 WELL VOLUME	0.69	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1047	PURGE TIME END	1059	TOTAL PURGED	6.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1053	3.0	3.0	0.50	9.61	6.4	25.2	2530	0.17	1.49	Clear	None
1056	1.50	4.50	"	9.61	6.4	25.1	2537	0.17	0.53	"	"
1059	1.50	6.0	"	9.61	6.4	25.1	2540	0.11	0.47	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Jay Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LEGNTH IN WELL (FEET)				SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	1100	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS	
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A						
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/7/09	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	MWC-IF2	Sample ID	.10	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1632	Screen Interval (Feet)	UNK To UNK		Static Depth to Water (Feet)	11.07	PURGE PUMP CODE	PP GP IBP
TOTAL WELL DEPTH (Feet)	16.40	REFERENCE ELEVATION (NGVD)	11.64	GROUND WATER ELEVATION (REFERENCE-STATIC)	0.61		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (16.40 -) * 0.1632

ONE WELL VOLUME	0.87	1/4 WELL VOLUME	0.21	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	11:24	PURGE TIME END	11:36	TOTAL PURGED	3.0

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
11:28	1.0	1.0	0.25	11.07	6.8	26.2	~~28150~~	0.25	4.67	clear	none
11:32	1.0	2.0	"	11.07	6.7	26.2	~~28140~~	0.14	3.41	"	"
11:36	1.0	3.0	"	11.07	6.7	26.2	~~28170~~	0.12	0.87	"	"
							2,817				
							MCN 11/09/09				

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Larry Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT		SAMPLE TUBING LEGNTH IN WELL (FEET)			SAMPLE PUMP FLOW RATE (mL/min)	
SAMPLING INITIATED	1137	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/9/09	SAL Project #	9123/9	Project Name	Quarterly Monitor Well Sampling
Well Number	MWB-30	Sample ID	12	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	2.0	WELL CAPACITY (gal/ft)	0.1652	Screen Interval (Feet)	N/A To N/A		Static Depth to Water (Feet)	5.37	PURGE PUMP CODE: PP GP IBP
TOTAL WELL DEPTH (Feet)	18.70	REFERENCE ELEVATION (NGVD)	7.67	GROUND WATER ELEVATION (REFERENCE-STATIC)	2.3		TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (18.70 - N/A) * 0.1652

ONE WELL VOLUME	2.17	1/4 WELL VOLUME	0.54	3 WELL VOLUMES		5 WELL VOLUMES	

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)		FINAL TUBING LEGNTH IN WELL (FEET)		PURGE TIME START	1022	PURGE TIME END	1033	TOTAL PURGED	5.50

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
1027	2.50	2.50	0.50	5.39	7.1	25.2	934	0.14	1.66	CLEAR	None
1030	1.50	4.0	"	5.39	7.1	25.2	932	0.11	1.27	"	"
1033	1.50	5.50	"	5.39	7.1	25.2	933	0.08	1.20	"	"

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Jay Ward		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP (TL) TT	SAMPLE TUBING LEGNTH IN WELL (FEET)		N/A	SAMPLE PUMP FLOW RATE (mL/min)	N/A	
SAMPLING INITIATED	1034	SAMPLING ENDED		FIELD CLEANED	Y (N)	CLEANING STEPS	
FIELD FILTERED?	Y (N)	FILTER SIZE (µm)		DUPLICATE	Y (N)	VOC COLLECTED BY REVERSE FLOW?	Y N (N/A)
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N (N/A)						
PRESERVATION CHECKED IN FIELD?	(Y) N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218

GROUNDWATER SAMPLING LOG

Client Name:	Progress Energy, Inc.	Location:	Crystal River Plant	Contact:	Ron Johnson
				Phone:	352-563-4463
Date Sampled	10/7/07	SAL Project #	96319	Project Name	Quarterly Monitor Well Sampling
Well Number	Equipment Blank	Sample ID	13	GPS LAT	
				GPS LONG	

PURGING DATA

WELL DIAMETER (Inches)	N/A	WELL CAPACITY (gal/ft)	N/A	Screen Interval (Feet)	N/A To N/A	Static Depth to Water (Feet)	N/A	PURGE PUMP CODE	~~PP~~ GP IBP
TOTAL WELL DEPTH (Feet)	N/A	REFERENCE ELEVATION (NGVD)	N/A	GROUND WATER ELEVATION (REFERENCE-STATIC)	N/A	TUBING DIAMETER (Inches)		TUBING CAPACITY (gal/ft)	

Purge Technique: q Submerged Screen (1,1/4,1/4 Well) q Submerged Screen (1EQ Volume, 3, 3 Minutes) q Partially Submerged Screen (1 Well, 3,3 minutes)

WELL VOLUME = (TOTAL DEPTH - STATIC DEPTH) x WELL CAPICITY = (N/A - N/A) * N/A

ONE WELL VOLUME	N/A	1/4 WELL VOLUME	N/A	3 WELL VOLUMES	N/A	5 WELL VOLUMES	N/A

EQUIPMENT VOLUME = PUMP VOLUME + (TUBING CAPACITY X TUBING LEGNTH) + FLOW CELL VOLUME

PUMP VOLUME		TUBING LEGNTH		FLOW CELL VOLUME		EQUIPMENT VOLUME	

INITIAL TUBING LEGNTH IN WELL (FEET)	N/A	FINAL TUBING LEGNTH IN WELL (FEET)	N/A	PURGE TIME START	N/A	PURGE TIME END	N/A	TOTAL PURGED	N/A

TIME	VOLUME PURGED (Gallons)	TOTAL VOLUME PURGED (Gallons)	PURGE RATE (gpm)	Depth to Water (Feet)	pH (SU) (Δ <0.2)	TEMP (oC) (Δ <0.2)	SP COND (uS/cm) (Δ <5%)	DO (mg/L) (% SAT <20)	TURBIDITY (NTUs) (<20 NTU)	COLOR (Describe)	ODOR (Describe)
0625					7.1	26.7	6.4	2.73	0.08	Clear	None

Well Capacity (gallons/foot): 0.75"=0.02, 1.25"=0.06, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47, 12"5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / COMPANY (PRINT)				SAMPLER(S) SIGNATURES:	Ray Wind		
TUBING MATERIAL CODE (CIRCLE ONE)	PP PE NP TL TT	SAMPLE TUBING LEGNTH IN WELL (FEET)		N/A	SAMPLE PUMP FLOW RATE (mL/min)	N/A	
SAMPLING INITIATED	0625	SAMPLING ENDED		FIELD CLEANED	Y N	CLEANING STEPS	
FIELD FILTERED?	Y N	FILTER SIZE (µm)		DUPLICATE	Y N	VOC COLLECTED BY REVERSE FLOW?	Y N N/A
SEMI-VOLS COLLECTED THROUGH TRAP?	Y N N/A						
PRESERVATION CHECKED IN FIELD?	Y N N/A	LIST PRESERVATIVES ADDED					
WEATHER CONDITIONS	Clear						
COMMENTS							

PUMP CODES: PP=Peristaltic Pump, GP= Submersible Grundfos Pump, IBP= In-place Bladder Pump

TUBING MATERIAL CODES: PP= Polypropylene, PE= Polyethylene, NP= Non-inert Plastic, TL= Teflon Lined, TT= Teflon

RAI 4 2005 Domestic Waste Water Reports

Progress Energy

Michael Olive
Plant Manager
Crystal River Fossil Plant

February 17, 2005

Florida Department of Environmental Protection
2600 Blair Stone Road
Mail Station 3551
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Progress Energy Florida
Crystal River South Units 1, 2 & 3
Permit ID# FLA118753-003-DW3P

Enclosed is the discharge monitoring report for the month of January 2005 in accordance with the requirements of the above-cited permit.

If you should have any questions concerning these reports, please contact Ron Johnson of my staff at (352) 563-4568 or Mike Shrader at (727) 820-5588.

Sincerely,

Michael Olive
Manager, Crystal River Fossil Plant

Enclosure

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protectio, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

Percolation/Evaporation Pond

PERMITTEE NAME: Progress Energy Florida

MAILING: P.O. Box 14042, MAC CN77
St. Petersburg, FL 33733
ATTN: Michael Olive

FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St., Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

WAFR Site No.: 34251
GMS ID No.:

REPORT: Monthly
GROUP: Domestic

MONITORING PERIOD--From: **2005/01/01** To: **2005/01/31**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Y Mon. Site No. FLW-01	Permit Requirement	0.030 AN AVG	****		****	****	****			5 Days/Week	Meter
Flow	Sample Measurement	0.008	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 1 Mon. Site No. FLW-01	Permit Requirement	Report MO AVG	****		****	****	****			5 Days/Week	Meter
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	1.3	****	MG/L	0	Monthly	Grab
STORET No. 80082 Y Mon. Site No. EFA-01	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	<2	<2	MG/L	0	Monthly	Grab
STORET No. 80082 1 Mon. Site No. EFA-01	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	2.4	****	MG/L	0	Monthly	Grab
STORET No. 00530 Y Mon. Site No. EFA-01	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	<2	<2	MG/L	0	Monthly	Grab
STORET No. 00530 A Mon. Site No. EFA-01	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Michael Olive **Manager, Crystal River Fossil Plant**	Michael Olive	(352) 563-4484	05/02/17

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental Protectio, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

Percolation/Evaporation Pond

PERMITTEE NAME: Progress Energy Florida

MAILING: P.O. Box 14042, MAC CN77
St. Petersburg, FL 33733
ATTN: Michael Olive

FACILITY: **Crystal River - Units 1, 2 & 3**

LOCATION: 15760 W. Powerline St., Crystal River, FL 34428

COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD--From: **2005/01/01** To: **2005/01/31**

WAFR Site No.: 34251
GMS ID No.:

REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	Sample Measurement	****	****	****	6.9	****	7.3	SU	0	5 Days/Week	Grab
STORET No. 00400 A Mon. Site No. EFA-01	Permit Requirement	****	****		6.0 MIN	****	8.5 MAX			5 Days/Week	Grab
Coliform, Feca	Sample Measurement	****	****	****	****	11.8	****	#/100ML	0	Monthly	Grab
STORET No. 74055 Y Mon. Site No. EFA-01	Permit Requirement	****	****		****	200.0 AN AVG	****			Monthly	Grab
Coliform, Feca	Sample Measurement	****	****	****	<1	****	<1	#/100ML	0	Monthly	Grab
STORET No. 74055 A Mon. Site No. EFA-01	Permit Requirement	****	****		Report Mo Geo Mean	****	800.0 MAX			Monthly	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement	****	****	****	1.2	****	****	MG/L	0	5 Days/Week	Grab
STORET No. 50060 A Mon. Site No. EFA-01	Permit Requirement	****	****		0.5 MIN	****	****			5 Days/Week	Grab
Nitrogen, Nitrate, Tota (as N)	Sample Measurement	****	****	****	****	****	1.0	MG/L	0	Monthly	Grab
STORET No. 00620 A Mon. Site No. EFA-01	Permit Requirement	****	****		****	****	12.0 MAX			Monthly	Grab
Flow, To Plant	Sample Measurement	0.008	0.007	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Q Mon. Site No. FLW-01	Permit Requirement	Report MO AVG	Report 3-MO AVG		****	****	****			5 Days/Week	Meter

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO: Department of Environmental ProtectionMail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

Percolation/Evaporation Pond

PERMITTEE NAME: Progress Energy Florida

MAILING: P.O. Box 14042, MAC CN77
St. Petersburg, FL 33733
ATTN: Michael Olive

FACILITY: **Crystal River - Units 1, 2 & 3**

LOCATION: 15760 W. Powerline St, Crystal River, FL 34428

COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

WAFR Site No.: 34251
GMS ID No.:

REPORT: Monthly
GROUP: Domestic

MONITORING PERIOD--From: **2005/01/01** To: **2005/01/31**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Percent Capacity, (TMADF/ Permitted Capacity)x10(	Sample Measurement	****	****	****	****	24.80	****	Percent	0	Monthly	Calculated
STORET No. 00180 1 Mon. Site No. FLW-01	Permit Requirement	****	****		****	Report MO TOTAL	****			Monthly	Calculated
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	460.0	****	MG/L	0	Annually	Grab
STORET No. 80082 G Mon. Site No. INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	120.0	****	MG/L	0	Annually	Grab
STORET No. 00530 G Mon. Site No. INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DAILY SAMPLE RESULTS - PART B

Permit Number: FLA118753

Facility: Progress Energy Florida, Inc., Crystal River Units 1, 2 & 3 Sewage Treatment Plant

Monitoring Period From: 1 JAN 01 To: 31 JAN 01

	CBOD5 (MG/L)	Fecal Coliform Bacteria (#/100ML)	Nitrogen, Nitrate, Total (as N) (MG/L)	pH (SU)	TSS (MG/L)	TRC (For Disinfect.) (MG/L)	Flow (MGD)	Percent Capacity, (TMADF/Permitted Capacity) x 100 (PERCENT)	CBOD5 (MG/L)	TSS (MG/L)	
Code	80082	74055	00620	00400	00530	50060	50050	00180	80082	00530	
Mon. Site	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	FLW-01	FLW-01	INF-01	INF-01	
1				7.1		2.2	.012				
2				7.2		1.4	.002				
3				7.1		1.2	.002				
4				7.2		2.0	.010				
5	2U	1U	.97	7.1	2U	2.2	.011		460	120	
6				7.0		1.6	.010				
7				7.0		1.4	.007				
8							.005				
9				7.1		2.0	.005				
10				7.2		1.6	.009				
11				7.3		2.0	~~.014~~				
12				7.2		2.0	.011				
13				7.1		1.8	.010				
14				7.0		2.0	.005				
15				7.2		1.8	.007				
16							.006				
17				7.1		2.0	.006				
18				7.2		2.2	.008				
19				7.1		2.0	.008				
20				7.2		1.8	.010				
21				7.2		1.9	.010				
22				7.1		2.2	.006				
23							.006				
24				7.2		2.0	.006				
25				7.1		>2.2	.006				
26				7.0		2.0	<.010				
27				6.9		2.2	.012				
28				6.9		2.0	.010				
29				7.0		1.8	.008				
30							.005				
31				7.1		>2.2	.005				
Total							.239				
Mo. Avg.							.008				

PLANT STAFFING:

Day Shift Operator	Class:	C	Certificate No:	9451	Name:	DARYL ALLISON
Evening Shift Operator	Class:		Certificate No:		Name:	
Night Shift Operator	Class:		Certificate No:		Name:	
Lead Operator	Class:	C	Certificate No:	8678	Name:	DOUGLAS HARMON

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T050136
Date/Time Received: 1/5/05 14:45

Lab Code: T050136-04
Client Sample ID: Effluent CCC
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 01/05/2005 10:15
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**2.0**	mg/L O2	U	SM5210B		*T*
Fecal Coliform (MF)	1	1.0	1.0	**1**	cfu/100ml	U	SM9222D		*T*
Nitrate (as N)	1	0.027	0.11	**0.97**	mg/L		SM4500NO3-F		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**2.0**	mg/L	U	E160.2		*T*

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T050136
Date/Time Received: 1/5/05 14:45

Lab Code: T050136-03
Client Sample ID: Influent Raw
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 01/05/2005 10:10
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**460**	mg/L O2		SM5210B		*T*
Total Suspended Solids (TSS)	20	40	40	**120**	mg/L		E160.2		*T*

T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

- Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
- Tampa: 5810-D Breckenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
- Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

CHAIN OF CUSTODY RECORD

LAB NUMBER: T050136

Page _____ of _____

CLIENT NAME: D. HARMON

ADDRESS: P.O. Box 364

Inglis, FL. 34449

PHONE: 352-465-4613 FAX:

CONTACT: Doug-Gail

PROJECT NAME:

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

SAMPLED BY: D. HARMON

TURN AROUND TIME:

☐ STANDARD

☐ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS:

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Cl2	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	CBOD TSS	CBOD	TSS	NO3	Fecal			LAB NUMBER
BOTTLE SIZE & TYPE								500 ml	500 ml	500 ml	250 ml	250 ml			
ANALYSIS REQUIRED															
Preserv								U	U	U	U	T			
FLAPWT	INF RAW		Grab	1/5/05	10:00 AM	WW	1	X							01
2+5	EFF CCC	2.0			10:05 AM		4		X	X	X	X			02
FLAPWT	INF RAW				10:10 AM		1	X							03
1+2	EFF CCC	>2.2			10:15 AM		4		X	X	X	X			04
Steven	INF RAW				10:25 AM		1	X							05
Rivers	EFF CCC	>2.2			10:30 AM		4		X	X	X	X			06
FLAPWT	INF RAW				10:40 AM		1	X							07
Training	EFF CCC	1.8			10:45 AM		4		X	X	X	X			08

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit	Cooler #
Out: / /	Via:	RB D. HARMON D/T 12/30/04	
		AB D/T	
Ret: / /	Via:	Trip Bl.	
		01/5/05	

	Relinquished by:	Date	Time	Received by:	Date	Time
1	D. Harmon	1/5/05	1315	[illegible]	1/5/05	1315
2	[illegible]	1/5/05	1445	[illegible]	1/5/05	1445
3						
4						

Received on ice: ☒ yes ☐ no QC ☐ sent ☒ received

revised 8/01

Progress Energy

Michael Olive
Plant Manager
Crystal River Fossil Plant

March 24, 2005

Florida Department of Environmental Protection
2600 Blair Stone Road
Mail Station 3551
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Progress Energy Florida
Crystal River South Units 1, 2 & 3
Permit ID# FLA118753-003-DW3P

Enclosed is the discharge monitoring report for the month of February 2005 in accordance with the requirements of the above-cited permit.

If you should have any questions concerning these reports, please contact Ron Johnson of my staff at (352) 563-4568 or Mike Shrader at (727) 820-5588.

Sincerely,

Michael Olive
Manager, Crystal River Fossil Plant

Enclosure

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/02/01** To: **2005/02/28**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Y	Permit Requirement	0.030 AN AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 1	Permit Requirement	Report MO AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	1.6	****	MG/L	0	Monthly	Grab
STORET No. 80082 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	4.9	4.9	MG/L	0	Monthly	Grab
STORET No. 80082 1	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	2.9	****	MG/L	0	Monthly	Grab
STORET No. 00530 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	7.8	7.8	MG/L	0	Monthly	Grab
STORET No. 00530 A	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Michael Olive **Manager, Crystal River Fossil Plant**	Michael Olive	(352) 563-4484	05/03/22

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/02/01** To: **2005/02/28**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	Sample Measurement	****	****	****	6.9	****	7.2	SU	0	5 Days/Week	Grab
STORET No. 00400 Mon. Site No EFA-01	A Permit Requirement	****	****		6.0 MIN	****	8.5 MAX			5 Days/Week	Grab
Coliform, Fecal	Sample Measurement	****	****	****	****	11.8	****	#/100ML	0	Monthly	Grab
STORET No. 74055 Mon. Site No EFA-01	Y Permit Requirement	****	****		****	200.0 AN AVG	****			Monthly	Grab
Coliform, Fecal	Sample Measurement	****	****	****	<1	****	<1	#/100ML	0	Monthly	Grab
STORET No. 74055 Mon. Site No EFA-01	A Permit Requirement	****	****		Report Mo Geo Mean	****	800.0 MAX			Monthly	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement	****	****	****	1.4	****	****	MG/L	0	5 Days/Week	Grab
STORET No. 50060 Mon. Site No EFA-01	A Permit Requirement	****	****		0.5 MIN	****	****			5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement	****	****	****	****	****	0.9	MG/L	0	Monthly	Grab
STORET No. 00620 Mon. Site No EFA-01	A Permit Requirement	****	****		****	****	12.0 MAX			Monthly	Grab
Flow, To Plant	Sample Measurement	0.009	0.008	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Mon. Site No FLW-01	Q Permit Requirement	Report MO AVG	Report 3-MO AVG		****	****	****			5 Days/Week	Meter

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

MONITORING PERIOD--From: **2005/02/01** To: **2005/02/28**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Percent Capacity, (TMADF/ Permitted Capacity)x100	Sample Measurement	****	****	****	****	26.20	****	Percent	0	Monthly	Calculated
STORET No. 00180 1 Mon. Site No FLW-01	Permit Requirement	****	****		****	Report MO TOTAL	****			Monthly	Calculated
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	200.0	****	MG/L	0	Annually	Grab
STORET No. 80082 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	210.0	****	MG/L	0	Annually	Grab
STORET No. 00530 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T051029
Date/Time Received: 2/2/05 14:29

Lab Code: T051029-04
Client Sample ID: Effluent CCC
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 02/02/2005 10:15
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**4.9**	mg/L O2		SM5210B		*T*
Fecal Coliform (MF)	1	1.0	1.0	**1**	cfu/100ml	U	SM9222D		*T*
Nitrate (as N)	1	0.027	0.11	**0.90**	mg/L		SM4500NO3-F		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**7.8**	mg/L		E160.2		*T*

U The compound was analyzed for but not detected.
T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T051029
Date/Time Received: 2/2/05 14:29

Lab Code: T051029-03
Client Sample ID: Influent
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 02/02/2005 10:10
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**200**	mg/L O2		SM5210B		*T*
Total Suspended Solids (TSS)	20	40	40	**210**	mg/L		E160.2		*T*

T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

DAILY SAMPLE RESULTS - PART B

Permit Number: FLA118753

Facility: Progress Energy Florida, Inc., Crystal River Units 1, 2 & 3 Sewage Treatment Plant

Monitoring Period From: 1 Feb 06 To: 28 Feb 06

	CBOD5 (MG/L)	Fecal Coliform Bacteria (#/100ML)	Nitrogen, Nitrate, Total (as N) (MG/L)	pH (SU)	TSS (MG/L)	TRC (For Disinfect.) (MG/L)	Flow (MGD)	Percent Capacity, (TMADF/Permitted Capacity) x 100 (PERCENT)	CBOD5 (MG/L)	TSS (MG/L)	
Code	80082	74055	00620	00400	00530	50060	50050	00180	80082	00530	
Mon. Site	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	FLW-01	FLW-01	INF-01	INF-01	
1				7.2		>2.2	.009				
2	4.9	1 U	.90	7.1	7.8	>2.2	.011		200	210	
3				7.0		2.0	.015				
4				7.1		2.2	.009				
5				7.2		1.9	.008				
6				7.1		2.0	.005				
7				7.1		>2.2	.001				
8				7.0		1.8	.013				
9				7.1		2.0	.011				
10				7.2		>2.2	.012				
11				7.0		1.9	.010				
12				7.1		2.2	.004				
13				7.1		2.0	.006				
14				7.2		>2.2	.009				
15				7.1		2.0	.008				
16				7.2		>2.2	.009				
17				7.1		2.0	.009				
18				7.2		1.4	.005				
19				7.0		2.2	.009				
20							.001				
21				6.9		>2.2	.001				
22				7.1		2.0	.009				
23				7.2		1.8	.020				
24							.005				
25				7.1		1.6	.005				
26				7.0		1.8	.008				
27				7.1		2.0	.005				
28				7.0		>2.2	.009				
29											
30											
31											
Total							.238				
Mo. Avg.							.009				

PLANT STAFFING:

Day Shift Operator	Class:	C	Certificate No:	9451	Name:	DARYL ALLISON
Evening Shift Operator	Class:		Certificate No:		Name:	
Night Shift Operator	Class:		Certificate No:		Name:	
Lead Operator	Class:	C	Certificate No:	8678	Name:	DOUGLAS HARMON

Advanced
Environmental Laboratories, Inc.
- Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
- Tampa: 5810-D Breckenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
- Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

CHAIN OF CUSTODY RECORD

LAB NUMBER: 7057029

Page _____ of _____

CLIENT NAME: D. Harmon

ADDRESS: P.O. Box 364 Inglis FL. 34449

PHONE: 352 465-4653 FAX:

CONTACT: Doug - Cell

PROJECT NAME:

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

SAMPLED BY: D. Harmon

TURN AROUND TIME:
- ☐ STANDARD
- ☐ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS:

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Cl2	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	CBOD + TSS	CBOD	TSS	NO3	Fecal			LAB NUMBER
BOTTLE SIZE & TYPE								500 ml	1000 ml	1000 ml	100 ml	100 ml			
Preserv								U	U	U	U	T			
FLA Pwr	INF RAW		Grab	2/2/05	10:00 AM	WW	1	X							01
4+5	EFF CCC				10:05 AM		4		X	X	X	X			02
FLA Pwr	INF RAW				10:10 AM		1	X							03
1+2	EFF CCC				10:15 AM		4		X	X	X	X			04
Seven	INF RAW				10:25 AM		1	X							05
Rivers	EFF CCC				10:30 AM		4		X	X	X	X			06
FLA Pwr	INF RAW				10:40 AM		1	X							07
Training	EFF CCC				10:45 AM		4		X	X	X	X			08

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit	Cooler #		Relinquished by:	Date	Time	Received by:	Date	Time
Out: / /	Via:	RB D/T	D/T 2-2-05	1	D. Harmon	2/2/05	1300		2/2/05	1300
		AB	D/T	2		2/2/05	1429	V. Lynn	2/2/05	1429
Ret: / /	Via:	Trip Bl.		3						
	OC Feb 2 2005 ☐ U/R		☐	4						

3

Progress Energy

Michael Olive
Plant Manager
Crystal River Fossil Plant

April 18, 2005

Florida Department of Environmental Protection
2600 Blair Stone Road
Mail Station 3551
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Progress Energy Florida
Crystal River South Units 1, 2 & 3
Permit ID# FLA118753-003-DW3P

Enclosed is the discharge monitoring report for the month of March 2005 in accordance with the requirements of the above-cited permit.

If you should have any questions concerning these reports, please contact Ron Johnson of my staff at (352) 563-4568 or Mike Shrader at (727) 820-5588.

Sincerely,

Michael Olive
Manager, Crystal River Fossil Plant

Enclosure

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/03/01** To: **2005/03/31**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Y	Permit Requirement	0.030 AN AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
Flow	Sample Measurement	0.008	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 1	Permit Requirement	Report MO AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	1.8	****	MG/L	0	Monthly	Grab
STORET No. 80082 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	3.9	3.9	MG/L	0	Monthly	Grab
STORET No. 80082 1	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	3.2	****	MG/L	0	Monthly	Grab
STORET No. 00530 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	4.4	4.4	MG/L	0	Monthly	Grab
STORET No. 00530 A	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Michael Olive **Manager, Crystal River Fossil Plant**	Michael Olive	(352) 563-4484	05/04/19

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

Percolation/Evaporation Pond

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

MONITORING PERIOD--From: **2005/03/01** To: **2005/03/31**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	Sample Measurement	****	****	****	6.8	****	7.2	SU	0	5 Days/Week	Grab
STORET No. 00400 A Mon. Site No EFA-01	Permit Requirement	****	****		6.0 MIN	****	8.5 MAX			5 Days/Week	Grab
Coliform, Fecal	Sample Measurement	****	****	****	****	11.8	****	#/100ML	0	Monthly	Grab
STORET No. 74055 Y Mon. Site No EFA-01	Permit Requirement	****	****		****	200.0 AN AVG	****			Monthly	Grab
Coliform, Fecal	Sample Measurement	****	****	****	<1	****	<1	#/100ML	0	Monthly	Grab
STORET No. 74055 A Mon. Site No EFA-01	Permit Requirement	****	****		Report Mo Geo Mean	****	800.0 MAX			Monthly	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement	****	****	****	1.4	****	****	MG/L	0	5 Days/Week	Grab
STORET No. 50060 A Mon. Site No EFA-01	Permit Requirement	****	****		0.5 MIN	****	****			5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement	****	****	****	****	****	1.9	MG/L	0	Monthly	Grab
STORET No. 00620 A Mon. Site No EFA-01	Permit Requirement	****	****		****	****	12.0 MAX			Monthly	Grab
Flow, To Plant	Sample Measurement	0.008	0.008	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Q Mon. Site No FLW-01	Permit Requirement	Report MO AVG	Report 3-MO AVG		****	****	****			5 Days/Week	Meter

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/03/01** To: **2005/03/31**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Percent Capacity, (TMADF/ Permitted Capacity)x100	Sample Measurement	****	****	****	****	27.00	****	Percent	0	Monthly	Calculated
STORET No. 00180 1 Mon. Site No FLW-01	Permit Requirement	****	****		****	Report MO TOTAL	****			Monthly	Calculated
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	230.0	****	MG/L	0	Annually	Grab
STORET No. 80082 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	240.0	****	MG/L	0	Annually	Grab
STORET No. 00530 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T052003
Date/Time Received: 3/2/05 14:00

Lab Code: T052003-04
Client Sample ID: Effluent CCC
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 03/02/2005 10:15
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**3.9**	mg/L O2		SM5210B		*T*
Fecal Coliform (MF)	1	1.0	1.0	**1**	cfu/100ml	U	SM9222D		*T*
Nitrate (as N)	1	0.027	0.11	**1.9**	mg/L		SM4500NO3-F		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**4.4**	mg/L		E160.2		*T*

U The compound was analyzed for but not detected.
T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T052003
Date/Time Received: 3/2/05 14:00

Lab Code: T052003-03
Client Sample ID: Influent
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 03/02/2005 10:10
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**230**	mg/L O2		SM5210B		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**240**	mg/L		E160.2		*T*

T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

DAILY SAMPLE RESULTS - PART B

Permit Number: FLA118753

Facility: Progress Energy Florida, Inc., Crystal River Units 1, 2 & 3 Sewage Treatment Plant

Monitoring Period From: 1 MARCH To: 31 MARCH

	CBOD5 (MG/L)	Fecal Coliform Bacteria (#/100ML)	Nitrogen, Nitrate, Total (as N) (MG/L)	pH (SU)	TSS (MG/L)	TRC (For Disinfect.) (MG/L)	Flow (MGD)	Percent Capacity, (TMADF/Permitted Capacity) x 100 (PERCENT)	CBOD5 (MG/L)	TSS (MG/L)	
Code	80082	74055	00620	00400	00530	50060	50050	00180	80082	00530	
Mon. Site	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	FLW-01	FLW-01	INF-01	INF-01	
1				6.9		>2.2	.009				
2	3.9	1 U	1.9	6.8	4.4	2.0	.008		230	240	
3				6.9		1.6	.009				
4				7.0		1.9	.012				
5				6.9		2.0	.006				
6				7			.008				
7				7.0		2.0	.008				
8				7.0		>2.2	.009				
9				7.1		2.0	.009				
10				7.2		2.2	.010				
11				7.0		2.0	.005				
12				7.1		>2.2	.005				
13							.008				
14				7.0		>2.2	.008				
15				6.9		1.8	.010				
16				7.1		2.0	.010				
17				6.9		1.6	.014				
18				7.0		1.4	.010				
19							.006				
20				7.0		1.8	.006				
21				6.8		2.0	.015				
22				7.1		2.2	.005				
23				7.0		2.0	.008				
24				7.1		2.2	.008				
25							.003				
26				7.0		2.0	.003				
27				7.1		1.6	.011				
28				7.1		2.0	.008				
29				7.0		1.6	.007				
30				6.9		2.0	.009				
31				6.9		1.8	.009				
Total							.254				
Mo. Avg.							.008				

PLANT STAFFING:

Day Shift Operator	Class:	C	Certificate No:	9451	Name:	DARYL ALLISON
Evening Shift Operator	Class:		Certificate No:		Name:	
Night Shift Operator	Class:		Certificate No:		Name:	
Lead Operator	Class:	C	Certificate No:	8678	Name:	DOUGLAS HARMON

Advanced
Environmental Laboratories, Inc.
❑ Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
❑ Tampa: 5810-D Breckenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
❑ Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

CHAIN OF CUSTODY RECORD

LAB NUMBER: T052003

Page _____ of _____

CLIENT NAME: D. HARMON

ADDRESS: P.O. BOX 364

Inglis FL 34449

PHONE: 352 465-4653 FAX:

CONTACT: Doug - Gail

PROJECT NAME:

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

SAMPLED BY: D. HARMON

TURN AROUND TIME:

❑ STANDARD

❑ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS:

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

BOTTLE SIZE & TYPE	500 ml	100 ml	100 ml	100 ml	120 ml			
ANALYSIS REQUIRED	TSS	CBOD	COD	TSS	NH3	Fecal		
Preserv	U	U	U	U	T			

SAMPLE ID	SAMPLE DESCRIPTION	Cl2	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.							LAB NUMBER
FLAPWR	INF RAW		GRAB	3/2/05	10:00	WW	1	X						-01
4+5	EFF CCC	>2.2			10:05		4		X	X	X	X		-02
FLAPWR	INF RAW				10:10		1	X						-03
1+2	EFF CCC	>2.2			10:15		4		X	X	X	X		-04
SEVEN	INF RAW				10:25		1	X						-05
RIVERS	EFF CCC	>2.2			10:30		4		X	X	X	X		-06
FLAPWR	INF RAW				10:40		1	X						-07
TRAINING	EFF CCC	2.0			10:41		4		X	X	X	X		-08

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit	Cooler #		Relinquished by:	Date	Time	Received by:	Date	Time
Out: / /	Via:	RB D. HARMON	D/T 2-25-05	1	[signature]	3/2/05	1245	[signature]	3/2/05	1245
		AB	D/T	2	[signature]	3/2/05	1400	[signature]	3/2/05	1400
Ret: / /	Via:	Trip Bl.		3						
	3/2/05	❑	❑	4						

Received on ice: ☒ yes ❑ no QC ❑ sent ☒ received

revised 8/01

4

Progress Energy

Michael Olive
Plant Manager
Crystal River Fossil Plant

May 24, 2005

Florida Department of Environmental Protection
2600 Blair Stone Road
Mail Station 3551
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Progress Energy Florida
Crystal River South Units 1, 2 & 3
Permit ID# FLA118753-003-DW3P

Enclosed is the discharge monitoring report for the month of April 2005 in accordance with the requirements of the above-cited permit.

If you should have any questions concerning these reports, please contact Ron Johnson of my staff at (352) 563-4568 or Mike Shrader at (727) 820-5588.

Sincerely,

Michael Olive
Manager, Crystal River Fossil Plant

Enclosure

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/04/01** To: **2005/04/30**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Y	Permit Requirement	0.030 AN AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
Flow	Sample Measurement	0.008	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 1	Permit Requirement	Report MO AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	1.8	****	MG/L	0	Monthly	Grab
STORET No. 80082 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	4.3	4.3	MG/L	0	Monthly	Grab
STORET No. 80082 1	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	3.5	****	MG/L	0	Monthly	Grab
STORET No. 00530 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	7.0	7.0	MG/L	0	Monthly	Grab
STORET No. 00530 A	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Michael Olive **Manager, Crystal River Fossil Plant**	Michael Olive	(352) 563-4484	05/05/25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

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MAILING: P.O. Box 14042 MAC CN77
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ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/04/01** To: **2005/04/30**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	Sample Measurement	****	****	****	6.9	****	7.2	SU	0	5 Days/Week	Grab
STORET No. 00400 A Mon. Site No EFA-01	Permit Requirement	****	****		6.0 MIN	****	8.5 MAX			5 Days/Week	Grab
Coliform, Fecal	Sample Measurement	****	****	****	****	11.8	****	#/100ML	0	Monthly	Grab
STORET No. 74055 Y Mon. Site No EFA-01	Permit Requirement	****	****		****	200.0 AN AVG	****			Monthly	Grab
Coliform, Fecal	Sample Measurement	****	****	****	<1	****	<1	#/100ML	0	Monthly	Grab
STORET No. 74055 A Mon. Site No EFA-01	Permit Requirement	****	****		Report Mo Geo Mean	****	800.0 MAX			Monthly	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement	****	****	****	1.6	****	****	MG/L	0	5 Days/Week	Grab
STORET No. 50060 A Mon. Site No EFA-01	Permit Requirement	****	****		0.5 MIN	****	****			5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement	****	****	****	****	****	5.5	MG/L	0	Monthly	Grab
STORET No. 00620 A Mon. Site No EFA-01	Permit Requirement	****	****		****	****	12.0 MAX			Monthly	Grab
Flow, To Plant	Sample Measurement	0.008	0.008	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Q Mon. Site No FLW-01	Permit Requirement	Report MO AVG	Report 3-MO AVG		****	****	****			5 Days/Week	Meter

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

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Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

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MAILING: P.O. Box 14042 MAC CN77
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ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

WAFR Site No.: 34251
GMS ID No.:

REPORT: Monthly
GROUP: Domestic

MONITORING PERIOD--From: **2005/04/01** To: **2005/04/30**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Percent Capacity, (TMADF/ Permitted Capacity)x100	Sample Measurement	****	****	****	****	27.80	****	Percent	0	Monthly	Calculated
STORET No. 00180 1 Mon. Site No FLW-01	Permit Requirement	****	****		****	Report MO TOTAL	****			Monthly	Calculated
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	240.0	****	MG/L	0	Annually	Grab
STORET No. 80082 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	160.0	****	MG/L	0	Annually	Grab
STORET No. 00530 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T053547
Date/Time Received: 4/13/05 14:30

Lab Code: T053547-04
Client Sample ID: Effluent CCC
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 04/13/2005 10:15
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**4.3**	mg/L O2		SM5210B		*T*
Fecal Coliform (MF)	1	1.0	1.0	**1**	cfu/100ml	U	SM9222D		*T*
Nitrate (as N)	5	0.14	0.54	**5.5**	mg/L		SM4500NO3-F		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**7.0**	mg/L		E160.2		*T*

U The compound was analyzed for but not detected.
T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T053547
Date/Time Received: 4/13/05 14:30

Lab Code: T053547-03
Client Sample ID: Influent Raw
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 04/13/2005 10:10
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**240**	mg/L O2		SM5210B		*T*
Total Suspended Solids (TSS)	20	40	40	**160**	mg/L		E160.2		*T*

T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

DAILY SAMPLE RESULTS - PART B

Permit Number: FLA118753

Facility: Progress Energy Florida, Inc., Crystal River Units 1, 2 & 3 Sewage Treatment Plant

Monitoring Period From: 1 APR 05 To: 30 APR 05

	CBOD5 (MG/L)	Fecal Coliform Bacteria (#/100ML)	Nitrogen, Nitrate, Total (as N) (MG/L)	pH (SU)	TSS (MG/L)	TRC (For Disinfect.) (MG/L)	Flow (MGD)	Percent Capacity, (TMADF/Permitted Capacity) x 100 (PERCENT)	CBOD5 (MG/L)	TSS (MG/L)	
Code	80082	74055	00620	00400	00530	50060	50050	00180	80082	00530	
Mon. Site	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-0	FLW-01	FLW-01	INF-01	INF-01	
1				6.9		2.2	.010				
2				7.1		1.8	.011				
3							.011				
4				7.2		2.0	.012				
5				7.0		>2.2	.007				
6				7.1		>2.2	.004				
7				7.0		2.2	.013				
8				6.9		1.6	.006				
9				7.1		2.0	.010				
10							.005				
11				7.0		2.1	.005				
12				7.1		>2.2	.007				
13	4.3	10	5.5	7.0	7.0	>2.2	.005		240	160	
14				7.1		2.0	.016				
15				6.9		2.0	.009				
16							.006				
17				7.0		1.8	.006				
18				7.1		2.0	.012				
19				7.2		2.1	.011				
20				7.1		1.9	.008				
21				7.0		2.2	.008				
22				6.9		>2.2	.007				
23							.011				
24				7.0		1.8	.011				
25				6.9		2.0	.008				
26				7.2		>2.2	.004				
27				7.0		2.0	.004				
28				6.9		2.2	.011				
29				7.0		1.9	.007				
30											
31											
Total							.245				
Mo. Avg.							.008				

PLANT STAFFING:

Day Shift Operator	Class:	C	Certificate No:	9951	Name:	Daryl Allison
Evening Shift Operator	Class:		Certificate No:		Name:	
Night Shift Operator	Class:		Certificate No:		Name:	
Lead Operator	Class:	C	Certificate No:	8678	Name:	Douglas Harmon

Advanced Environmental Laboratories, Inc.
- Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
- Tampa: 5810-D Breckenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
- Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

CHAIN OF CUSTODY RECORD

LAB NUMBER: T053547

Page _____ of _____

CLIENT NAME: D. HARMON

ADDRESS: P.O. Box 314 English FL. 34449

PHONE: 352-485-4613 FAX:

CONTACT: Doug - Gail

PROJECT NAME:

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

SAMPLED BY: D. HARMON

TURN AROUND TIME:
- ☐ STANDARD
- ☐ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS:

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Cl2	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	BOTTLE SIZE & TYPE: 500 ml	500 ml	500 ml	100 ml	120 ml			LAB NUMBER
ANALYSIS REQUIRED								CBOD TSS	CBOD	TSS	NO3	fecal			
Preserv								C	C	C	C	T			
FLA Pwr	INF RAW		Grab	4/13/05	10:00 AM	WW	1	X							01
4+5	Eff ccc	1.8			10:05 AM		4		X	X	X	X			02
FLA Pwr	INF RAW				10:10 AM		1	X							03
1+2	Eff ccc	2.0			10:15 AM		4		X	X	X	X			04
Seven	INF RAW				10:25 AM		1	X							05
Rivers	Eff ccc	12.2			10:30 AM		4		X	X	X	X			06
FLA Pwr	INF RAW				10:40 AM		1	X							07
Training	Eff ccc	1.6			10:45 AM		4		X	X	X	X			08

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit / Cooler #		Relinquished by:	Date	Time	Received by:	Date	Time
Out: / /	Via:	RB D. HARMON D/T 4-6-05 AM	1	D. Harmon	4/13/05		R. Clarke	4-13-05	1300
		AB D/T	2			1430	J. Stson	4/13/05	1430
Ret: / /	Via: O	Trip Bl. ☐ ☐	3						
			4						

Received on ice ☒ yes ☐ no QC ☐ sent ☒ received

revised 8/01

5

Progress Energy

Michael Olive
Plant Manager
Crystal River Fossil Plant

June 17, 2005

Florida Department of Environmental Protection
2600 Blair Stone Road
Mail Station 3551
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Progress Energy Florida
Crystal River South Units 1, 2 & 3
Permit ID# FLA118753-003-DW3P

Enclosed is the discharge monitoring report for the month of May 2005 in accordance with the requirements of the above-cited permit.

If you should have any questions concerning these reports, please contact Ron Johnson of my staff at (352) 563-4568 or Mike Shrader at (727) 820-5588.

Sincerely,

Michael Olive
Manager, Crystal River Fossil Plant

Enclosure

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/05/01** To: **2005/05/31**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Y	Permit Requirement	0.030 AN AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
Flow	Sample Measurement	0.008	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 1	Permit Requirement	Report MO AVG	****		****	****	****			5 Days/Week	Meter
Mon. Site No FLW-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	2.1	****	MG/L	0	Monthly	Grab
STORET No. 80082 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	4.2	4.2	MG/L	0	Monthly	Grab
STORET No. 80082 1	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	4.5	****	MG/L	0	Monthly	Grab
STORET No. 00530 Y	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Mon. Site No EFA-01											
Solids, Total Suspended	Sample Measurement	****	****	****	****	14.0	14.0	MG/L	0	Monthly	Grab
STORET No. 00530 A	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Mon. Site No EFA-01											

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Michael Olive **Manager, Crystal River Fossil Plant**	Michael Olive	(352) 563-4484	05/06/17

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

Percolation/Evaporation Pond

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

MONITORING PERIOD--From: **2005/05/01** To: **2005/05/31**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	Sample Measurement	****	****	****	6.9	****	7.2	SU	0	5 Days/Week	Grab
STORET No. 00400 A Mon. Site No EFA-01	Permit Requirement	****	****		6.0 MIN	****	8.5 MAX			5 Days/Week	Grab
Coliform, Fecal	Sample Measurement	****	****	****	****	11.8	****	#/100ML	0	Monthly	Grab
STORET No. 74055 Y Mon. Site No EFA-01	Permit Requirement	****	****		****	200.0 AN AVG	****			Monthly	Grab
Coliform, Fecal	Sample Measurement	****	****	****	<1	****	<1	#/100ML	0	Monthly	Grab
STORET No. 74055 A Mon. Site No EFA-01	Permit Requirement	****	****		Report Mo Geo Mean	****	800.0 MAX			Monthly	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement	****	****	****	1.4	****	****	MG/L	0	5 Days/Week	Grab
STORET No. 50060 A Mon. Site No EFA-01	Permit Requirement	****	****		0.5 MIN	****	****			5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement	****	****	****	****	****	6.5	MG/L	0	Monthly	Grab
STORET No. 00620 A Mon. Site No EFA-01	Permit Requirement	****	****		****	****	12.0 MAX			Monthly	Grab
Flow, To Plant	Sample Measurement	0.008	0.008	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Q Mon. Site No FLW-01	Permit Requirement	Report MO AVG	Report 3-MO AVG		****	****	****			5 Days/Week	Meter

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/05/01** To: **2005/05/31**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Percent Capacity, (TMADF/ Permitted Capacity)x100	Sample Measurement	****	****	****	****	27.40	****	Percent	0	Monthly	Calculated
STORET No. 00180 1 Mon. Site No FLW-01	Permit Requirement	****	****		****	Report MO TOTAL	****			Monthly	Calculated
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	210.0	****	MG/L	0	Annually	Grab
STORET No. 80082 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	140.0	****	MG/L	0	Annually	Grab
STORET No. 00530 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T054648
Date/Time Received: 5/11/05 14:40

Lab Code: T054648-04
Client Sample ID: Effluent CCC
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 5/11/2005 10:15
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**4.2**	mg/L O2		SM5210B		*T*
Fecal Coliform (MF)	1	1.0	1.0	**1**	cfu/100ml	U	SM9222D		*T*
Nitrate (as N)	5	0.14	0.54	**6.5**	mg/L		SM4500NO3-F		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**14**	mg/L		E160.2		*T*

U The compound was analyzed for but not detected.
T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T054648
Date/Time Received: 5/11/05 14:40

Lab Code: T054648-03
Client Sample ID: Influent Raw
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 5/11/2005 10:10
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**210**	mg/L O2		SM5210B		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**140**	mg/L		E160.2		*T*

T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

008

DAILY SAMPLE RESULTS - PART B

Permit Number: FLA118753

Facility: Progress Energy Florida, Inc., Crystal River Units 1, 2 & 3 Sewage Treatment Plant

Monitoring Period From: 1 May 05 To: 31 May 05

	CBOD5 (MG/L)	Fecal Coliform Bacteria (#/100ML)	Nitrogen, Nitrate, Total (as N) (MG/L)	pH (SU)	TSS (MG/L)	TRC (For Disinfect.) (MG/L)	Flow (MGD)	Percent Capacity, (TMADF/Permitted Capacity) x 100 (PERCENT)	CBOD5 (MG/L)	TSS (MG/L)	
Code	80082	74055	00620	00400	00530	50060	50050	00180	80082	00530	
Mon. Site	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	FLW-01	FLW-01	INF-01	INF-01	
1				6.9		2.0	.010				
2				7.1		1.6	.006				
3				7.0		1.4	.013				
4				7.2		2.0	.009				
5				7.1		1.8	.007				
6				7.0		2.0	.011				
7				7.1		1.9	.008				
8							.005				
9				7.2		2.2	.005				
10				7.0		>2.2	.008				
11 x	4.2	1U	6.5	7.0	14	>2.2	.010		210	140	
12				7.1		>2.2	.010				
13				7.0		1.9	.008				
14				7.0		2.0	.006				
15							.005				
16				7.1		2.2	.005				
17				7.0		>2.2	.010				
18				7.1		2.0	.009				
19				7.2		2.2	.012				
20				7.0		2.0	.006				
21							.005				
22				7.1		2.2	.005				
23				7.0		2.0	.008				
24				6.9		>2.2	.009				
25				7.0		2.0	.014				
26				7.1		2.2	.009				
27				7.0		2.0	.010				
28				7.1		1.8	.006				
29				7.1		2.0	.008				
30				7.0		>2.2	.007				
31							.007				
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator	Class:	C	Certificate No:	9451	Name:	Daryl Allison
Evening Shift Operator	Class:		Certificate No:		Name:	
Night Shift Operator	Class:		Certificate No:		Name:	
Lead Operator	Class:	C	Certificate No:	8678	Name:	Douglas Harmon

Advanced Environmental Laboratories, Inc.
☐ Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
☐ Tampa: 5810-D Breckenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
☐ Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

CHAIN OF CUSTODY RECORD

LAB NUMBER: T054648

Page _____ of _____

CLIENT NAME: D. HARMON

ADDRESS: P.O. Box 364

Inglis FL. 34449

PHONE: 352-445-4653 FAX:

CONTACT: Doug - Gail

PROJECT NAME:

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

SAMPLED BY: D. HARMON

TURN AROUND TIME:

☐ STANDARD

☐ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS:

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Cl2	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	CBOD TSS (500 mL)	CBOD (1000 mL)	TSS (1000 mL)	NO3 (100 mL)	Fecal (1 L)			LAB NUMBER
Preserv								U	U	U	U	T			
FLAPWR	INF RAW		GRAB	5/11/05	10:00 AM	WW	1	X							-01
4+5	EFF CCC	1.8			10:05 AM		4		X	X	X	X			-02
FLAPWR	INF RAW				10:10 AM		1	X							-03
1+2	EFF CCC	2.0			10:15 AM		4		X	X	X	X			-04
Seven	INF RAW				10:25 AM		1	X							-05
Rivers	EFF CCC	>2.2			10:30 AM		4		X	X	X	X			-06
FLAPWR	INF RAW				10:40 AM		1	X							-07
TRAINING	EFF CCC	>2.2			10:45 AM		4		X	X	X	X			-08

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit / Cooler #		Relinquished by:	Date	Time	Received by:	Date	Time
Out: / /	Via:	RB D. HARMON D/T 5-2-05 AM	1	D. Harmon	5/11/05		K. Mandell	5/11/05	1440
		AB D/T	2						1440
Ret: / /	Via:	Trip Bl: ☐ 0 (+) ☐ 5/11/05	3						5/11/05
			4						

Received on ice: ☒ yes ☐ no QC ☐ sent ☒ received

revised 8/01

Progress Energy

6

Michael Olive
Plant Manager
Crystal River Fossil Plant

July 19, 2005

Florida Department of Environmental Protection
2600 Blair Stone Road
Mail Station 3551
Tallahassee, FL 32399-2400

Dear Sir/Madam:

Re: Progress Energy Florida
Crystal River South Units 1, 2 & 3
Permit ID# FLA118753-003-DW3P

Enclosed is the discharge monitoring report for the month of June 2005 in accordance with the requirements of the above-cited permit.

If you should have any questions concerning these reports, please contact Ron Johnson of my staff at (352) 563-4568 or Mike Shrader at (727) 820-5588.

Sincerely,

Michael Olive
Manager, Crystal River Fossil Plant

Enclosure

Cc: FDEP, Domestic Wastewater Section, SW District

Progress Energy Florida, Inc.
Crystal River Steam Plant
15760 W. Powerline Street
Crystal River, FL 34428

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/06/01** To: **2005/06/30**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Y Mon. Site No FLW-01	Permit Requirement	0.030 AN AVG	****		****	****	****			5 Days/Week	Meter
Flow	Sample Measurement	0.009	****	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 1 Mon. Site No FLW-01	Permit Requirement	Report MO AVG	****		****	****	****			5 Days/Week	Meter
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	2.2	****	MG/L	0	Monthly	Grab
STORET No. 80082 Y Mon. Site No EFA-01	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	2.0	2.0	MG/L	0	Monthly	Grab
STORET No. 80082 1 Mon. Site No EFA-01	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	4.8	****	MG/L	0	Monthly	Grab
STORET No. 00530 Y Mon. Site No EFA-01	Permit Requirement	****	****		****	20.0 AN AVG	****			Monthly	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	4.0	4.0	MG/L	0	Monthly	Grab
STORET No. 00530 A Mon. Site No EFA-01	Permit Requirement	****	****		****	30.0 MO AVG	60.0 MAX			Monthly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein: and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (incl. area code)	Date (yy/mm/dd)
Michael Olive **Manager, Crystal River Fossil Plant**	Michael Olive	(352) 563-4484	05/07/21

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Fecal Coliform results spurious, field blank shows similar results. See attached laboratory reports.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

MONITORING PERIOD--From: **2005/06/01** To: **2005/06/30**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	Sample Measurement	****	****	****	6.9	****	7.2	SU	0	5 Days/Week	Grab
STORET No. 00400 A Mon. Site No EFA-01	Permit Requirement	****	****		6.0 MIN	****	8.5 MAX			5 Days/Week	Grab
Coliform, Fecal	Sample Measurement	****	****	****	****	23.5	****	#/100ML	0	Monthly	Grab
STORET No. 74055 Y Mon. Site No EFA-01	Permit Requirement	****	****		****	200.0 AN AVG	****			Monthly	Grab
Coliform, Fecal	Sample Measurement	****	****	****	140.0	****	140.0	#/100ML	0	Monthly	Grab
STORET No. 74055 A Mon. Site No EFA-01	Permit Requirement	****	****		Report Mo Geo Mean	****	800.0 MAX			Monthly	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement	****	****	****	1.8	****	****	MG/L	0	5 Days/Week	Grab
STORET No. 50060 A Mon. Site No EFA-01	Permit Requirement	****	****		0.5 MIN	****	****			5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement	****	****	****	****	****	2.5	MG/L	0	Monthly	Grab
STORET No. 00620 A Mon. Site No EFA-01	Permit Requirement	****	****		****	****	12.0 MAX			Monthly	Grab
Flow, To Plant	Sample Measurement	0.009	0.009	MGD	****	****	****	****	0	5 Days/Week	Meter
STORET No. 50050 Q Mon. Site No FLW-01	Permit Requirement	Report MO AVG	Report 3-MO AVG		****	****	****			5 Days/Week	Meter

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Fecal Coliform results spurious, field blank shows similar results. See attached laboratory reports.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

Percolation/Evaporation Pond

WHEN COMPLETED MAIL THIS REPORT TO Department of Environmental Protection
Mail Station 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Progress Energy Florida
MAILING: P.O. Box 14042 MAC CN77
St. Petersburg FL 33733
ATTN: Michael Olive
FACILITY: **Crystal River - Units 1, 2 & 3**
LOCATION: 15760 W. Powerline St. Crystal River, FL 34428
COUNTY: Citrus

PERMIT NUMBER: FLA118753-001-DW4P
LIMIT: Final
CLASS SIZE: Minor
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: C
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD--From: **2005/06/01** To: **2005/06/30**

WAFR Site No.: 34251
GMS ID No.:
REPORT: Monthly
GROUP: Domestic

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Percent Capacity, (TMADF/ Permitted Capacity)x100	Sample Measurement	****	****	****	****	28.60	****	Percent	0	Monthly	Calculated
STORET No. 00180 1 Mon. Site No FLW-01	Permit Requirement	****	****		****	Report MO TOTAL	****			Monthly	Calculated
BOD, Carbonaceous 5 day, 20 C	Sample Measurement	****	****	****	****	210.0	****	MG/L	0	Annually	Grab
STORET No. 80082 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab
Solids, Total Suspended	Sample Measurement	****	****	****	****	230.0	****	MG/L	0	Annually	Grab
STORET No. 00530 G Mon. Site No INF-01	Permit Requirement	****	****		****	Report MO AVG	****			Annually	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Fecal Coliform results spurious, field blank shows similar results. See attached laboratory reports.

·009

DAILY SAMPLE RESULTS - PART B

Permit Number: FLA118753

Facility: Progress Energy Florida, Inc., Crystal River Units 1, 2 & 3 Sewage Treatment Plant

Monitoring Period From: 1 JUN 05 To: 30 JUN 05

	CBOD5 (MG/L)	Fecal Coliform Bacteria (#/100ML)	Nitrogen, Nitrate, Total (as N) (MG/L)	pH (SU)	TSS (MG/L)	TRC (For Disinfect.) (MG/L)	Flow (MGD)	Percent Capacity, (TMADF/Permitted Capacity) x 100 (PERCENT)	CBOD5 (MG/L)	TSS (MG/L)	
Code	80082	74055	00620	00400	00530	50060	50050	00180	80082	00530	
Mon. Site	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	EFA-01	FLW-01	FLW-01	INF-01	INF-01	
1	< 2	140	2.5	7.1	4.0	>2.2	.010		210	230	
2				7.0		>2.2	012				
3							.010				
4				7.1		2.0	.010				
5				7.2		1.8	.005				
6				7.1		2.0	.007				
7				7.0		1.9	.008				
8				7.1		2.0	.013				
9				7.2		2.2	.010				
10							010				
11				7.1		2.0	.010				
12				7.0		2.2	.009				
13				7.1		2.0	.007				
14				7.1		>2.2	.010				
15				7.0		2.0	.010				
16				7.1		>2.2	.008				
17							.010				
18				7.2		1.9	.010				
19				6.9		2.0	.007				
20				7.0		2.0	.008				
21				7.1		>2.2	.009				
22				6.9		2.2	.009				
23							.010				
24				7.1		2.0	.010				
25				7.0		1.9	.007				
26				7.1		2.0	.005				
27				6.9		2.1	.009				
28				7.0		>2.2	.010				
29				7.1		2.0	.011				
30				7.0		2.0	010				
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator	Class:	C	Certificate No:	9451	Name:	Daryl Allison
Evening Shift Operator	Class:		Certificate No:		Name:	
Night Shift Operator	Class:		Certificate No:		Name:	
Lead Operator	Class:	C	Certificate No:	8678	Name:	Douglas Harmon

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T055322
Date/Time Received: 6/1/05 14:30

Lab Code: T055322-04
Client Sample ID: Effluent CCC
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 6/1/2005 10:15
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Courier

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**2.0**	mg/L O2	U	SM5210B		*T*
Fecal Coliform (MF)	1	1.0	1.0	**140**	cfu/100ml		SM9222D		*T*
Nitrate (as N)	1	0.027	0.11	**2.5**	mg/L		SM4500NO3-F		*T*
Total Suspended Solids (TSS)	1	2.0	2.0	**4.0**	mg/L		E160.2		*T*

U The compound was analyzed for but not detected.
T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T055322
Date/Time Received: 6/1/05 14:30

Lab Code: T055322-03
Client Sample ID: Influent Raw
Site: FLA PWR 1&2
Matrix: Water

Date/Time Sampled: 6/1/2005 10:10
Sample Type:
Sampled By: Douglas Harmon
Sampling Method: G
Shipping Method: AEL Courier

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**210**	mg/L O2		SM5210B		*T*
Total Suspended Solids (TSS)	10	20	20	**230**	mg/L		E160.2		*T*

T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T055324
Date/Time Received: 6/1/05 14:30

Lab Code: T055324-08
Client Sample ID: Effluent CCC
Site: Blank
Matrix: Water

Date/Time Sampled: 6/1/2005 10:05
Sample Type:
Sampled By: Gail Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	1	2.0	2.0	**2.0**	mg/L O2	U	SM5210B		*T*
Fecal Coliform (MF)	1	1.0	1.0	**150**	cfu/100ml		SM9222D		*T*
Nitrate (as N)	1	0.027	0.11	**0.027**	mg/L	U	SM4500NO3-F		*T*
Total Suspended Solids (TSS)	2	4.0	4.0	**8.8**	mg/L		E160.2		*T*

U The compound was analyzed for but not detected.
T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: Doug Harmon
Project Name: WWTP

Report No.: T055324
Date/Time Received: 6/1/05 14:30

Lab Code: T055324-07
Client Sample ID: Influent Raw
Site: Blank
Matrix: Water

Date/Time Sampled: 6/1/2005 10:00
Sample Type:
Sampled By: Gail Harmon
Sampling Method: G
Shipping Method: AEL Pick-up

Miscellaneous Analytes

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
CBOD (5-day)	30	60	60	**60**	mg/L O2	U	SM5210B		*T*
Total Suspended Solids (TSS)	10	20	20	**20**	mg/L	U	E160.2		*T*

U The compound was analyzed for but not detected.
T DOH certification #E84589 (AEL-Tampa) (FL NELAC Certification)

Advanced
Environmental Laboratories, Inc.
❑ Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
❑ Tampa: 5810-D Breckenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
❑ Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

CHAIN OF CUSTODY RECORD

LAB NUMBER: TQ55322

Page _____ of _____

CLIENT NAME: D. HARMON

ADDRESS: P.O. BOX 364
INGLIS FL. 34449

PHONE: 315-465-4613 FAX:

CONTACT: DOUG — GAIL

PROJECT NAME:

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

SAMPLED BY: D. HARMON

TURN AROUND TIME:
❑ STANDARD
❑ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS:

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

BOTTLE SIZE & TYPE	500 ml	1000 ml	1000 ml	125 ml	125 ml			
ANALYSIS REQUIRED	CBOD TSS	CBOD	TSS	NO_3	FECAL			LAB NUMBER
Preserv								

SAMPLE ID	SAMPLE DESCRIPTION	Cl_2	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.							
FLA PWR	INF RAW		GRAB	6/1/05	10:00 AM	WW	1	X						-01
4+5	EFF CCC	2.0			10:05 AM		4		X	X	X	X		-02
FLA PWR	INF RAW				10:10 AM		1	X						-03
1+2	EFF CCC	1.6			10:15 AM		4		X	X	X	X		-04
SEVEN	INF RAW				10:25 AM		1	X						-05
RIVERS	EFF CCC	>2.2			10:30 AM		4		X	X	X	X		-06
FLA PWR	INF RAW				10:40 AM		1	X						-07
TRAINING	EFF CCC	>2.2			10:45 AM		4		X	X	X	X		-08

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit	Cooler #
Out: / /	Via:	RB D. HARMON	D/T 5-26-05
		AB	D/T
Ret: / /	Via:	Trip Bl	

	Relinquished by:	Date	Time	Received by:	Date	Time
1	D. Harmon	6/1/05	12:00		6/1/05	13:00
2					6/1/05	1430
3						
4						

Received on ice: ☒ yes ❑ no QC ❑ sent ❑ received

revised 8/01