



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTINEZ CENTER
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

JONATHAN P. STEVERSON
SECRETARY

SENT VIA ELECTRONIC MAIL

In the Matter of an Application for Permit by:

21 May 2015

Michael Ray, Administrator
Englewood Water District
201 Selma Avenue
Englewood, Florida 34223
ray@englewoodwater.com

Sarasota County UIC
[333332-001-UO/II](#)
WACS ID [52341](#)
Class I Injection Well System, IW-1
Operation Permit

NOTICE OF DRAFT PERMIT

The Department of Environmental Protection hereby gives notice that a Draft Permit has been developed for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Englewood Water District, Michael Ray, Administrator, 201 Selma Avenue, Englewood, Florida 34223 applied on March 15, 2015 to the Department of Environmental Protection for a permit to operate a Class I injection well system.

The Department has permitting jurisdiction under chapter 403 of the Florida Statutes and the rules adopted thereunder. The project is not exempt from permitting procedures. The Department has determined that an operation permit is required for the proposed work.

Pursuant to section 403.815 of the Florida Statutes, and Rule 62-528.315 (6)(b) of the Florida Administrative Code, you (the applicant) are required to publish at your own expense the enclosed Notice of Draft Permit. The Notice must be published one time only within 30 days in a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031 of the Florida Statutes, in the county where the activity is to take place. The applicant shall provide proof of publication to the Tallahassee Office of the Department within seven (7) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

Any interested person may submit written comments on the draft permit within 30 days of the

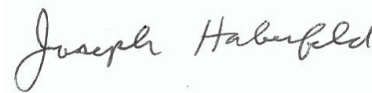
PERMITTEE: Michael Ray, Administrator
Englewood Water District
Englewood RO Water Treatment Plant

Permit Number: 333332-001-UO/11
WACS ID: 52341

public notice. Written comments may be submitted to the Department of Environmental Protection, Aquifer Protection Program, 2600 Blair Stone Road, MS 3530, Tallahassee, Florida 32399-2400. All comments received within the 30-day period and during the public meeting will be considered by the Department in formulating a final decision concerning this project. If a public meeting is arranged it must be held in the area of the well no less than 30 days after publication of this Notice for the purpose of receiving verbal and written comment concerning this project. If a public meeting is not arranged prior to publication, the Notice must provide an opportunity for a public meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Please contact Douglas Thornton, Engineering Specialist at 850.245.8666, for additional information.

Executed in Leon County, Florida.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Joseph Haberfeld, P.G.
Aquifer Protection Program Administrator

PERMITTEE: Michael Ray, Administrator
Englewood Water District
Englewood RO Water Treatment Plant

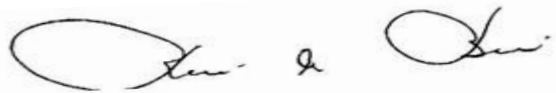
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CERTIFICATE OF SERVICE

The undersigned designated clerk hereby certifies that this NOTICE OF DRAFT PERMIT and all copies were mailed before the close of business on Thursday, May 21, 2015, to the listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section.120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged



Clerk

May 21, 2015

Date

Copies Furnished To:

Joseph Haberfeld, FDEP/TLH	joe.haberfeld@dep.state.fl.us
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PERMITTEE: Michael Ray, Administrator
Englewood Water District
Englewood RO Water Treatment Plant

Permit Number: 333332-001-UO/11
WACS ID: 52341

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF DRAFT PERMIT

The Department of Environmental Protection hereby provides Notice that it has prepared a Draft Permit for the proposed project as detailed in application File No. 333332-001-UO/II (WACS #52341), subject to the conditions specified in the draft permit and summarized below. The applicant, Englewood Water District, Michael Ray, Administrator, 201 Selma Avenue, Englewood, Florida 34223 applied on March 15, 2015 for a permit to operate a Class I injection well system. The project is located at 201 Selma Avenue, Englewood, Florida 34223.

The facility will operate - A non-hazardous Class I Injection Well System, consisting of one injection well (IW-1) with nominal ten-inch (10.75") outer diameter fiberglass reinforced plastic (FRP) casing set to 1,040 feet below land surface, (bls), and a total depth of 1,800 feet bls. Injection is into the Ocala Limestone and Avon Park Formation for the disposal of brine concentrate produced from the Englewood Water District reverse osmosis WTP. The maximum capacity for the well shall be 1.58 million gallons per day (MGD). The monitoring system consists of three single-zone monitor wells.

The Department has permitting jurisdiction under Chapter 403 of the Florida Statutes and the rules adopted thereunder. The project is not exempt from permitting procedures. The Department has determined that an operation permit is required for the proposed work.

Any interested person may submit written comments on the draft permit and may request a public meeting within 30 days after publication of this public notice. A request for a public meeting shall be submitted in writing and shall state the nature of the issues proposed to be raised in the meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Written comments or a public meeting request shall be submitted to the Department of Environmental Protection, Aquifer Protection Program, 2600 Blair Stone Road, MS 3530, Tallahassee, Florida 32399-2400, which is the office processing this permit application. All comments received within the 30-day period will be considered in formulation of the Department's final decision regarding permit issuance.

The application, draft permit, and fact sheet are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, South District Office, 2295 Victoria Avenue, Suite 364, P.O. Box 2549, Fort Myers, Florida 33902-2549, and at the Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Any additional information concerning this project may be obtained by contacting Douglas Thornton, Engineering Specialist, at 850.245.8666.



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JONATHAN P. STEVERSON
SECRETARY

Underground Injection Control Class I Injection Well System Operation Permit

Permittee:

Michael Ray, Administrator
Englewood Water District
201 Selma Avenue
Englewood, Florida 34223
ray@englewoodwater.com

Permit/Certification

Permit Number: 333332-001-UO/11
WACS ID: 52341
Date of Issuance: Draft
Date of Expiration: Draft
Permit Processor: Douglas Thornton

Facility

Englewood RO Water Treatment Plant
201 Selma Avenue
Englewood, Florida 34223

Location

County: Sarasota County UIC
Latitude: 26° 57' 15.17" N
Longitude: 82° 20' 47.45" W
Section/Township/Range: Sec 31 / T40S / R20E

Project: Class I Injection Wells System IW-1.

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and the rules adopted thereunder. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows.

TO OPERATE: A non-hazardous Class I Injection Well System, consisting of one injection well (IW-1), with nominal ten-inch (10.75") outer diameter (OD) fiberglass reinforced plastic (FRP) casing set to 1,040 feet below land surface, (bls), and a total depth of 1,800 feet bls. Injection is into the Ocala Limestone and Avon Park Formation for the disposal of brine concentrate produced from the Englewood Water District reverse osmosis WTP. The maximum capacity for the well shall be 1.58 million gallons per day (MGD). The maximum injection rate shall not exceed 1,100 gallons per minute (gpm). The monitoring system consists of three single-zone monitor wells.

IN ACCORDANCE WITH: The Application to Operate DEP Form No. 62-528.900(1) received, March 15, 2015, response to the Department's April 1, 2015, request for additional information, and supporting information submitted to this agency.

PERMITTEE: Michael Ray, Administrator
 Englewood Water District
 Englewood RO Water Treatment Plant

Permit Number: 333332-001-UO/11
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LOCATION: Englewood Reverse Osmosis Water Treatment Plant, 201 Selma Avenue, Englewood, Florida 34223, in the county of Sarasota.

The injection and monitoring wells at this facility are designated as follows:

Injection Wells:

<i>Well Name</i>	<i>WACS Effluent Testsite ID</i>	<i>Total Well Depth *</i>	<i>Casing Diameter O.D. (inches)</i>	<i>Casing or Tubing Type</i>	<i>Casing Depth or Interval*</i>
IW-1	2333	1800	30	Steel	77
			20	Steel	450
			10.75	O.D. FRP	1040
			Open hole		From 1040 to 1800

*Feet Below Land Surface

Monitoring Well System

<i>Well Name</i>	<i>WACS Monitoring Well Testsite ID</i>	<i>Monitoring Zone</i>	<i>Casing Diameter (OD)</i>	<i>Casing Type</i>	<i>Casing Depth*</i>	<i>Monitoring Depth*</i>
MW-1			16	Steel	160	
	4203	Monitoring Zone	6	PVC	500	From 500 to 550
RO-1			12	Steel	263	
	4286	Monitoring Zone				From 263 to 430
RO-MW			6	PVC	260	
	4364	Monitoring Zone				From 260 to 420

*Feet Below Land Surface

SUBJECT TO: Specific Conditions I-VI and General Conditions 1-24.

Specific Conditions

I. OPERATING REQUIREMENTS

A. General

1. Only non-hazardous injectate as described in this permit and purge water from the on-site monitoring wells (associated with the injection well system) may be discharged into the injection wells. [62-528.400(1)]

- The injection pressure at the wellhead shall be monitored and controlled at all times to ensure the maximum pressure at the wellhead does not exceed two-thirds of the most recent tested pressure on the final casing, final cemented tubing, or casing/tubing annular space, as applicable. The following table outlines the wellhead pressures applicable at the time of permit issuance:

Well	Maximum Permitted Wellhead Pressure (psi)	Most Recent tested wellhead pressure at the time of issuance of this permit (psi)
IW-1	51	77

At such time as the next pressure test is performed and a report for that test is submitted to and accepted by the Department, the maximum wellhead pressure allowable will become two-thirds of the tested pressure from the successive test.

[62-528.300(6)(e)]

- The flow to the injection wells at each wellhead shall be monitored and controlled at all times to ensure the maximum fluid velocity down the well during operation does not exceed the respective flow rate indicated below, and shall not exceed 10 feet per second except during planned testing, maintenance, or emergency conditions in which case the flow rate shall not exceed 12 feet per second *[62-528.415(1)(f)]*:

Well	Peak Flow Rate	
	GPM	MGD
IW-1	1,100	1.58

- No underground injection is allowed that causes or allows movement of fluid into an underground source of drinking water if such fluid movement may cause a violation of any Primary Drinking Water Standard or may otherwise affect the health of persons. *[62-528.440(2)(c)]*
- All equipment of this facility shall be operated and maintained so as to function consistently as designed in removing pollutants. The wastewater stream shall remain non-hazardous at all times. *[62-528.307(3)(b) and 62-528.400(1)]*
- In the event a well must be plugged or abandoned, the permittee shall obtain a permit from the Department as required by Chapter 62-528, Florida Administrative Code (F.A.C.). When no longer used for their intended purpose, these wells shall be properly plugged and abandoned. Within 180 days of well abandonment, the permittee shall submit to the Department the proposed plugging method, pursuant to Rule 62-528.460, F.A.C. *[62-528.460(1) and 62-528.435(6)]*
- In accordance with rules 62-4.090 and 62-528.455(3)(a), F.A.C., the permittee shall submit an application for permit renewal at least 60 days prior to expiration of this permit. *[62-528.307(3)(a)]*

PERMITTEE: Michael Ray, Administrator
Englewood Water District
Englewood RO Water Treatment Plant

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8. Hurricane Preparedness: Preparations to be made by permittee upon issuance of a “Hurricane Watch” by the National Weather Service include, but are not limited to:
 - a. Secure all onsite salt and other stockpiled additive materials to prevent surface and/or ground water contamination.
 - b. Properly secure equipment to prevent damage to well(s) and onsite treatment process equipment.

[62-528.307(1)(f)]

B. Mechanical Integrity and Mechanical Integrity Testing (MIT)

1. Mechanical Integrity.
 - a. The permittee shall maintain the mechanical integrity of the well at all times.
 - b. If the Department determines that the injection well lacks mechanical integrity, written notice shall be given to the permittee.
 - c. Within 48 hours of receiving written notice that the well lacks mechanical integrity, unless the Department requires immediate cessation of injection, the permittee shall cease injection into the well unless the Department allows continued injection pursuant to subparagraph d. below.
 - d. The Department shall allow the permittee to continue operation of a well that lacks mechanical integrity if the permittee has made a satisfactory demonstration that fluid movement into or between underground sources of drinking water is not occurring.

[62-528.307(3)(e)]

2. The permittee shall demonstrate mechanical integrity at least once every five years during the life of each injection well. In the event operational or other data indicate a possible loss of integrity in an injection well, the mechanical integrity and other testing may be required at less than a five-year interval. For each injection well, the mechanical integrity testing program shall include: TV survey, radioactive tracer survey (RTS – both internal and external), and temperature log. Mechanical integrity testing shall be run and completed prior to the following dates:

Five-Year MIT	
Well Name	Required Completion Date
IW-1	March 11, 2020

[62-528.300(6)(b)2, 62-528.300(6)(c), and 62-528.425(1)(d)]

3. A plan describing the mechanical integrity procedures shall be submitted to the Department’s Tallahassee and South District offices for approval at least 90 days prior to the required completion date noted above.

[62-528.307(1)(m)4]

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Englewood Water District
Englewood RO Water Treatment Plant

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4. The Department’s South District office must be notified a minimum of seventy-two (72) hours prior to all testing for mechanical integrity on the injection wells. The testing procedure must be approved by the Department before testing begins. All testing must be initiated during daylight hours, Monday through Friday. An evaluation of all test results must be submitted with all test data. *[62-528.300(6)(f)]*
5. Pursuant to Rule 62-528.430(2)(b)2.a., F.A.C., the final MIT report for the demonstration of mechanical integrity for the injection wells shall be submitted to the Department’s Tallahassee office for review and approval within three months of the completion date for mechanical integrity testing. In addition, a copy of the cover letter for the MIT results shall be sent to the U.S. Environmental Protection Agency, Region 4, UIC program, 61 Forsyth St. SW, Atlanta, GA 30303-8909. The final MIT report shall be prepared by a registered/certified Professional Engineer and/or Professional Geologist (as appropriate), and it shall address all tests noted in condition B.2 (including procedures followed, interpretations and results), and shall include a tabular presentation/graphical evaluation of monitoring well data over the previous 5-year period. If the well has failed any of the specified tests, the MIT report shall include a plan for corrective action for all discovered deficiencies. *[62-528.440(5)(b)]*

Interim Mechanical Integrity Test

6. To demonstrate internal mechanical integrity of the injection well alternative design, an additional (i.e., interim) pressure test shall be run and completed midway between the standard 5-year full mechanical integrity tests. This interim test shall be completed prior to the following date:

Interim MIT	
Well Name	Required Completion Date
IW-1	September 12, 2017

[62-528.300(6)(b)2, 62-528.300(6)(c), and 62-528.425(1)(d)]

7. A plan describing the mechanical integrity procedures shall be submitted to the Department’s Tallahassee and South District District offices for approval at least 90 days prior to the required completion date noted above. *[62-528.307(1)(m)4.]*
8. The Department’s South District office must be notified a minimum of seventy-two (72) hours prior to all testing for mechanical integrity on the injection wells. The testing procedure must be approved by the Department before testing begins. All testing must be initiated during daylight hours, Monday through Friday. An evaluation of all test results must be submitted with all test data. *[62-528.300(6)(f)]*
9. Pursuant to Rule 62-528.430(2)(b)2.a., F.A.C., the final MIT report for the demonstration of interim mechanical integrity for the injection wells shall be submitted to the Department’s Tallahassee office for review and approval within three months of the completion date for mechanical integrity testing. In addition, a copy of the cover letter for the MIT results shall be sent to the U.S. Environmental Protection Agency, Region 4, UIC program, 61 Forsyth St. SW, Atlanta, Georgia 30303-8909. The final MIT report

shall be prepared by a registered/certified Professional Engineer and/or Professional Geologist (as appropriate), and it shall address procedures followed, interpretations and results. If the well has failed any of the specified tests, the MIT report shall include a plan for corrective action for all discovered deficiencies. [62-528.440(5)(b)]

C. Surface Equipment

1. The integrity of the monitoring zone sampling systems shall be maintained at all times. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitoring zone and that samples obtained are representative of those zones. Sampling lines and equipment shall be kept free of contamination with independent discharges and no interconnections with any other lines. [62-528.307(1)(f) and 62-528.307(3)(b)]
2. The surface equipment for the each injection well disposing of domestic (municipal) effluent shall maintain compliance with Chapter 62-600.540(4), F.A.C., for water hammer control, screening, access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. [62-600.540(4), 62-528.307(1)(f), and 62-528.307(3)(b)]
3. Injection wells not disposing of domestic (municipal) effluent shall maintain compliance with Chapter 62-528.450(2)(j), F.A.C., for water hammer control, as well as access for logging and testing, and reliability and flexibility in the event of damage to the well and effluent piping. [62-528.450(2)(j), 62-528.307(1)(f), and 62-528.307(3)(b)]
4. The surface equipment and piping for the injection and monitoring wells shall be kept free of corrosion at all times. [62-528.307(1)(f) and 62-528.307(3)(b)]
5. Spillage onto the injection well pad(s) during construction activities, and any waters spilled during mechanical integrity testing, other maintenance, testing or repairs to the system(s) shall be contained on the pad(s) and directed to a sump which in turn discharges to the pumping station, wet well, or via other approved means to the injection well system(s). [62-528.307(1)(f) and 62-528.307(3)(b)]
6. The injection well pads shall be maintained and retained in service for the life of the injection wells. The injection well pads are not, unless specific approval is obtained from the Department, to be used for storage of any material or equipment at any time. [62-528.307(1)(f) and 62-528.307(3)(b)]
7. The surficial aquifer monitoring wells adjacent to the injection and monitoring wells shall be secured, maintained, and retained in service for subsequent sampling that may be needed (i.e., should there be an accidental discharge to the surficial aquifer); alternatively, the facility may submit a request to the Department for cessation of sampling followed by capping, or plugging and abandonment of these wells. [62-528.307(3)(b) and 62-520.600(6)(k)]

II. QUALITY ASSURANCE/QUALITY CONTROL

1. The permittee shall ensure that the operation of this injection well system shall be as described in the application and supporting documents. Any proposed modifications to the permit shall be submitted in writing to the Tallahassee office of the Aquifer Protection Program for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Rule 62-4.050, F.A.C. *[62-528.100 and 62-4.050]*
2. Proper operation and maintenance include effective performance and appropriate quality assurance procedures; adequate operator staffing and training; and adequate laboratory and process controls. *[62-528.307(3)(b)]*
3. All water quality samples required by this permit shall be collected in accordance with the appropriate Department Standard Operation Procedures (SOP), pursuant to Chapter 62-160, Field Procedures. A certified laboratory shall conduct the analytical work, as provided by Chapter 62-160, F.A.C., Laboratory Certification. Department approved test methods shall be utilized, unless otherwise stated in this permit. All calibration procedures for field testing and laboratory equipment shall follow manufacturer's instrumentation manuals and satisfy the requirements of the Department SOPs. A listing of the SOPs pertaining to field and laboratory activities is available at the FDEP website at: <http://www.dep.state.fl.us/water/sas/sop/sops.htm>. *[62-4.246 and 62-160]*
4. All indicating, recording and totalizing devices associated with the injection well system shall be maintained in good operating condition and calibrated annually at a minimum. The pressure gauges, flow meter, and chart records shall be calibrated using standard engineering methods. *[62-528.307(1)(f) and 62-528.307(3)(b)]*
5. All reports submitted to satisfy the requirements of this permit shall be signed by a person authorized under Rule 62-528.340(1), F.A.C., or a duly authorized representative of that person under Rule 62-528.340(2), F.A.C. All reports required by this permit which are submitted to the Department shall contain the following certification as required by Rule 62-528.340(4), F.A.C.:

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

[62-528.340(1), (2), and (4)]

PERMITTEE: Michael Ray, Administrator
Englewood Water District
Englewood RO Water Treatment Plant

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6. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the South District as being more representative of ground water conditions.
[62-520.310(5)]

III. TESTING AND REPORTING REQUIREMENTS

A. General

1. The permittee shall submit monthly to the Department the results of all injection well and monitoring well data required by this permit no later than the last day of the month immediately following the month of record. The report shall include:
 - a. A cover page summarizing the current status of all monthly activities, including, but not limited to, the certification and signature required in condition II.5.
 - b. Operational and water quality data in a tabular format. The following identifying information must be included on each data sheet:
 - i. Facility Name
 - ii. Well Name
 - iii. UIC Permit Number
 - iv. WACS Facility ID
 - v. WACS Testsite ID number (on appropriate data sheet) as provided on the Injection Well and Monitoring Well tables on page 2 of this permit.
 - c. Laboratory pages and supporting documentation
[62-528.307(3)(d)]

PERMITTEE: Michael Ray, Administrator
Englewood Water District
Englewood RO Water Treatment Plant

Permit Number: 333332-001-UO/11
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2. The report may be sent via electronic mail in Adobe™ (.pdf) format to the following Program e-mail addresses:

South District	SouthDistrict@dep.state.fl.us
Tallahassee - UIC Program	TAL_UIC@dep.state.fl.us

If a paper copy of the report is submitted, it should be sent to Department staff at the following addresses:

South District	2295 Victoria Avenue, Suite 364 P.O. Box 2549 Fort Myers, Florida 33902-2549
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Tallahassee - UIC Program	2600 Blair Stone Road, MS 3530 Tallahassee, Florida, 32399-2400
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[62-528.307(3)(d)]

B. Monitoring

- The injection system shall be monitored in accordance with Rules 62-528.425(l)(g) and 62-528.430(2), F.A.C. The following injection well performance data and monitor zone data shall be recorded and reported in the Monthly Operating Report (MOR) as indicated below. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. [62-528.307(3)(d) and 528.430(2)]

PARAMETER	UNIT	RECORDING FREQUENCY	FREQUENCY OF ANALYSES			
			IW-1 2333	MW-1 4203	RO-1 4286	RO-MW 4264
Injection Pressure, max.	psi	continuous	a			
Injection Pressure, min.	psi	continuous	a			
Injection Pressure, avg.	psi	continuous	a			
Flow Rate, max.	gpm	continuous	a			
Flow Rate, min.	gpm	continuous	a			
Flow Rate, avg.	gpm	continuous	a			
Total Volume (Recharged)	mg	daily/monthly	a			
Water Level or Pressure max.	ft NGVD	continuous		a		a
Water Level or Pressure min.	ft NGVD	continuous		a		a
Water Level or Pressure avg.	ft NGVD	continuous		a		a
Chloride	mg/L	grab	M	M	Q	
pH ^b	std. units	grab	M	M	Q	
Specific Conductance ^b	µmhos/cm	grab	M	M	Q	
Sulfate	mg/L	grab	M	M	Q	
Temperature (field) ^b	°C	grab	M	M	Q	
Total Dissolved Solids	mg/L	grab	M	M	Q	
Bicarbonate	mg/L	grab	Q	Q	Q	
Calcium	mg/L	grab	Q	Q	Q	
Magnesium	mg/L	grab	Q	Q	Q	
Potassium	mg/L	grab	Q	Q	Q	
Sodium	mg/L	grab	Q	Q	Q	
Iron	mg/L	grab	Q	Q	Q	
Gross Alpha	pCi/L	grab	Q	Q		
Radium 226	pCi/L		Q	Q		
Radium 228	pCi/L		Q	Q		

See injection well and monitoring well tables at beginning of permit for more information.

M – monthly; Q – quarterly;

^a – Operational data reporting for flows, pressures and water levels: daily max, min and average from continuous reporting; monthly max, min and average (calculated from daily averages).

^b – Field samples

2. A pressure fall-off test shall be performed annually, with test data submitted along with the monitoring results of the injection and monitoring well data, for the month of record the test is performed in. *[62-528.430(2) (b) and (d)]*
3. Pertaining to the evacuation (purging) of monitoring wells, which is required prior to the collection of samples for the Monthly Operating Reports (MORs), the facility may elect to follow either one of the following two purging protocols:
 - a. The protocol stated below:

A minimum of three well volumes of fluid shall be evacuated from the monitoring systems prior to sampling for the chemical parameters listed above. Sufficient purging shall have occurred when either of the following has occurred:

 - 1) pH, specific conductance and temperature when sampled, upon purging the third or subsequent well volume, each vary less than 5% from that sampled upon purging the previous well volume; or
 - 2) Upon purging the fifth well volume.
 - b. The following protocol taken from DEP-SOP-001/01(Field Procedures):
 - 1) Purge until the water level has stabilized (well recovery rate equals the purge rate), then purge a minimum of one well volume, and then collect the first set of stabilization parameters, namely pH, specific conductance and temperature;
 - 2) Thereafter, collect stabilization parameters \geq every $\frac{1}{4}$ well volume;
 - 3) Purging shall be complete when either of the following have occurred:
 - a) 3 consecutive readings of the parameters listed below are within the following ranges^[1]:
 - i. pH \pm 0.2 Standard Units
 - ii. Specific Conductance \pm 5.0% of reading
 - iii. Temperature \pm 0.2°C
 - b) Upon purging the fifth well volume.
4. The flow from the monitoring zones during well evacuation and sampling shall not be discharged to surface waters or aquifers containing an underground source of drinking water. Waters purged from monitoring wells in preparation for sampling shall be diverted to the injection well head via the pad drainage system, wet well, or treatment plant. *[62-4.030, 62-620.320]*

IV. ABNORMAL EVENTS

^[1] Provided dissolved oxygen in the groundwater of the zone being monitored is \leq 20% of saturation for the measured temperature and turbidity is \leq 20 NTUs. This assumption holds true for groundwater in most zones of the Floridan aquifer.

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1. In the event the permittee is temporarily unable to comply with any of the conditions of a permit due to breakdown of equipment, power outages or destruction by hazard of fire, wind, or by other cause, the permittee of the facility shall notify the South District office. *[62-528.415(4)(a)]*
2. Notification shall be made in person, by telephone, or by electronic mail (e-mail) within 24 hours of breakdown or malfunction to the South District office. *[62-528.307(1)(x)]*
3. A written report of any noncompliance referenced in Specific Condition (1) above shall be submitted to the South District office and the Tallahassee office within five days after its occurrence. The report shall describe the nature and cause of the breakdown or malfunction, the steps being taken or planned to be taken to correct the problem and prevent its reoccurrence, emergency procedures in use pending correction of the problem, and the time when the facility will again be operating in accordance with permit conditions. *[62-528.415(4)(b)]*

V. EMERGENCY DISPOSAL

1. All applicable federal, state and local permits must be in place to allow for any alternate discharges due to emergency or planned outage conditions. *[62-528.415(4)(c)1]*
2. Any proposed changes in emergency disposal methods shall be submitted to the South District office and the Tallahassee office for review and approval prior to implementation. *[62-528.415(4)(c)]*
3. The emergency disposal method must be fully operational in the event of planned or emergency outages of the injection well system. *[62-528.415(4)(c)2]*

VI. FINANCIAL RESPONSIBILITY

1. The permittee shall maintain at all times the financial resources necessary to close, plug, and abandon the injection and associated monitoring wells. *[62-528.435(9)]*
2. The permittee shall annually review the cost estimate for plugging and abandonment. Upon the occurrence of the plugging and abandonment cost estimate exceeding, by 10 percent or more on an annual basis, the cost estimate upon which the current financial responsibility is based, the permittee shall submit to the Department certified financial documentation necessary to amend, renew, or otherwise replace the existing financial responsibility pursuant to Rule 62-528.435(9)(b), F.A.C. and the conditions of this permit. Documentation that the annual updates are being conducted shall be submitted thirty (30) months after the date of permit issuance. *[62-528.435(9)(b)]*
3. In the event that the mechanism used to demonstrate financial responsibility should become insufficient or invalid for any reason, the permittee shall notify the Department's Tallahassee office in writing within 14 days of such insufficiency or invalidation. The permittee shall within 90 days of said notification submit to the Department's Tallahassee

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office for approval new financial documentation certifying either the remedy of current financial insufficiency or resolution of the financial instrument invalidation in order to comply with Rule 62-528.435(9)(b), F.A.C, and the conditions of this permit.
[62-528.435(9)(b)]

General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to section 403.141, F.S.
[62-528.307(1)(a)]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action. *[62-528.307(1)(b)]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit. *[62-528.307(1)(c)]*
4. This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-528.307(1)(d)]*
5. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties there from; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. *[62-528.307(1)(e)]*
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules. *[62-528.307(1)(f)]*
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

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- a. Have access to and copy any records that must be kept under conditions of this permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
 - d. Reasonable time will depend on the nature of the concern being investigated.
[62-528.307(1)(g)]
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
[62-528.307(1)(h)]
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
[62-528.307(1)(i)]
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. *[62-528.307(1)(j)]*
11. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
[62-528.307(1)(k)]
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
[62-528.307(1)(l)]
13. The permittee shall comply with the following:
- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all

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records shall be extended automatically unless the Department determines that the records are no longer required.

- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - 1) the date, exact place, and time of sampling or measurements;
 - 2) the person responsible for performing the sampling or measurements;
 - 3) the dates analyses were performed;
 - 4) the person responsible for performing the analyses;
 - 5) the analytical techniques or methods used;
 - 6) the results of such analyses.
- d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- e. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

[62-528.307(1)(m)]

14. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete. *[62-528.307(1)(n)]*
15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date. *[62-528.307(1)(o)]*
16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *[62-528.307(1)(p)]*
17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-528.307(1)(q)]*
18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. *[62-528.307(1)(r)]*
19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by

the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. *[62-528.307(1)(s)]*

20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records. *[62-528.307(1)(t)]*
21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in rule 62-528.340(4), F.A.C. *[62-528.307(1)(u)]*
22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h). *[62-528.307(1)(v)]*
23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements. *[62-528.307(1)(w)]*
24. The permittee shall report any noncompliance which may endanger health or the environment including:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
 - b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

[62-528.307(1)(x)]

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Issued this _____ day of _____ 2015

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Draft

Joseph Haberfeld, P.G.
Aquifer Protection Program Administrator
Division of Water Resource Management

FACT SHEET
Englewood Water District (EWD) RO WTP IW-1
Permit No. 0333332-001-UO/II; WACS No. 52341
May 21, 2015

1. General Information

A. Statutory Basis for Requiring/Issuing Permit

The Department has permitting jurisdiction under Chapter 403 Florida Statutes (F.S.), and the rules adopted thereunder. The project is not exempt from permitting procedures. The Department has determined that an operation permit is required.

B. Name and Address of Applicant

Mr. Michael Ray, Administrator
Englewood Water District
201 Selma Avenue
Englewood, Florida 34223-3443
E-mail ray@englewoodwater.com

Facility Address

EWD Reverse Osmosis Water Treatment Plant (WTP)
201 Selma Avenue
Englewood, Florida 34223-3443

C. Description of Applicant's Proposed Operation

To operate one, (1), non-hazardous Class 1 injection well, (IW-1), with a cemented 10.75-inch outer diameter (OD) fiberglass reinforced plastic (FRP) casing set to 1040 feet below land surface (bls) and total depth of 1800 feet bls. Injection is into the Ocala Limestone and Avon Park Formation for the disposal of brine concentrate produced from the Englewood Water District reverse osmosis WTP. The maximum capacity for the well shall be 1.58 million gallons per day (MGD). The maximum injection rate shall not exceed 1,100 gallons per minute (gpm). See Document 7

The monitor well system consists of three wells, a deep monitor well (MW-1), a shallow monitor well (RO-MW), and an RO supply well (RO-1). MW-1 is a six-inch OD PVC well that monitors a zone from 500 feet bls to 550 feet bls. RO-MW is a 6-inch OD PVC well that monitors from 260 feet bls to 420 feet bls. RO-1 is a production well completed to 430 feet with a 12-inch OD steel casing set to 263 feet bls.

D. Permitting History of this Facility

Construction Permit IW-1, No. UD58-097806 - issued July 23, 1985.
Operation Permit, No. UD58-141718 – issued December 1, 1988.
Operation Permit, No. UO58- 238520 - issued March 3, 1994.
Operation Permit, No. 136597-001-UO - issued July 8, 1999.
Operation Permit, No. 136597-003-UO - issued November 17, 2004.
Operation Permit Modification, No. 136597-003-UO - issued June 23, 2005.
Operation Permit, No. 0136597-009-UO – issued May 13, 2010

E. Documents Used in Permitting Decision

1. Hydrogeologic Report, Results of Reverse Osmosis Injection Well Investigation, Englewood WD, CH2M Hill June 11, 1986.
2. Operation and Maintenance manual for Reverse Osmosis Injection Well System, CH2M Hill, October 1987 – Revised April 2015.

3. Annual Operating report, January1, 2006 - December 31, 2006, PBS&J, May 2007.
4. Annual Operating report, January1, 2007 - December 31, 2007, PBS&J, May 2008.
5. 2008 Annual Summary Operating report, January1, 2008 - December 31, 2008 for IW-1 and IW-2, PBS&J, May 22, 2009.
6. Interim Mechanical Integrity Demonstration, Englewood WD, RO WTP Class I injection well, ATKINS, June 2012
7. Class I Injection Well System Operation Repermitting Application, Englewood WD, ATKINS, March 13, 2015.
8. Financial responsibility documentation submitted April 8, 2015.
9. Full Mechanical Integrity Demonstration, Englewood WD, RO WTP Class I injection well, ATKINS, April 16, 2015/
10. Response to incompleteness items, ATKINS, April 28, 2015

2. Reasons Permit Was Issued; Derivation of Conditions

A. Area of Review (Rule 62-528.300(4), F.A.C.)

Wells located within a 1.0 mile (5,280 feet) radius from the injection facility were located on a map and the well information listed. There were no wells identified that were not properly completed or plugged within the area of review. See Document 7 and 10, and Rules 62-528.300(4) and 62-528.455(3)(b)1. and 2. F.A.C.

B. Mechanical Integrity Demonstration (Rule 62-528.300(6), F.A.C.)

Mechanical Integrity testing (MIT) was successful conducted from March 11, to March 12, 2015. Internal mechanical integrity was demonstrated on March 12, 2015 by an internal radioactive tracer survey. In addition, an interim mechanical integrity pressure test was performed on June 27, 2012. Pressure testing conducted on June 27, 2012, included increasing the pressure of the 10.75-inch OD FRP cemented casing to 77 psi for one hour. At the end of the test, pressure had decreased to 75 psi a decrease of 2.6 percent. Pressure loss was within the 5 percent allowed by the Department for each test. See Documents 6 and 9.

An external radioactive tracer survey was successfully completed on March 12, 2015. The test demonstrated no fluid movement into an underground source of drinking water through channels adjacent to the well bore. Testing of the IW-1 also included a downhole video survey, and temperature survey. See Document 9.

C. Confinement (Rule 62-528.405(3), F.A.C.)

The Underground Source of Drinking Water (USDW), where water quality consists of a total dissolved solids (TDS) value less than 10,000 mg/L, extends to a depth of approximately 610 feet bls at this site. Geologic data collected during construction of this well indicate confining beds from base of the USDW to the top of the injection zone at 1040 feet bls with an approximate thickness of 430 feet. Confinement includes the Suwannee Limestone (Oligocene) and upper Ocala Limestone (Eocene). The lithology consists of soft chalky mudstone with lenses of fossiliferous wackstones to packstones. Document 1.

This conclusion is supported by operational data for the Englewood WD WTP facility collected since well IW-1 began operating in 1986. Physical and chemical monitoring values have not significantly changed since injection began. See Document 1, 3, 4, 5, and 7 for details

D. Injection Zone Testing, (Rule 62-528.405(30), F.A.C.)

Based on lithology, aquifer packer testing, water quality sampling, geophysical logs, injection tests, the injection zone is the Ocala Limestone and Avon Park Formation of Eocene age. The top of the injection interval is 1040 feet bls, and the base is at 1800 feet bls. The lithology is brown, fractured dolomite interbedded with limestone. Operational, onsite-monitoring data indicates the zone is sufficiently permeable and saline for injection. See Documents 1, 3, 4, 5 and 7 for details.

E. Well Construction

The casings for IW-1 are all are new, unused steel and Fiberglass Reinforced Plastic cemented to land surface. The depths of casings are:

- 30" OD steel casing set to 77 feet bls, thickness is 0.50 inches
- 20" OD steel casing set to 450 feet bls, thickness is 0.50 inches
- 10.75" OD FRP casing set to 1040 feet bls, thickness is 0.58 inches
- Annulus between FRP casing and 20" casing is completely cemented.
- Total depth is 1800 feet bls.
- See Document 1, section 2 and Figure 2, Document 7.

F. Monitor Plan, (Rule 62-528.425(1), F.A.C.)

Three single-zone monitor wells exist at this site. RO-MW monitors the water level of the Arcadia Formation (Hawthorn Group, Miocene Age) from 260-420 feet bls. RO-1 is a water supply well which monitors the Arcadia Formation from 263-430 feet bls. MW-1 monitors the basal portion of the USDW in the Arcadia Formation from 500-550 feet bls.

Required injection and monitor well monitoring parameters include daily injection volume, flow rate and pressure, and monthly monitoring of the WTP effluent for the parameters listed in the specific conditions of the permit. Monitor wells MW-1 and RO-1 are sampled for water quality; well RO-MW is used for water level monitoring of the water supply zone.

Well water quality sampling parameters and frequency of sampling are listed in the permit and are submitted monthly to the Department. Additionally, annual pressure fall-off tests are required (Rule 62-528.430 (2)(c),(F.A.C.). See Document 7 and the Draft Permit for details.

Analysis of the groundwater quality data collected since injection began at this facility (IW-1) in 1986 indicates the system is operating as designed. See Documents 1, 3, 4, 5 and 7.

G. Financial Responsibility, (Rules 62-528.435 (9) and 62-528.455 (3)(b)(8) F.A.C.)

Financial responsibility for this facility was demonstrated by local government guarantee. The demonstration was submitted April 8, 2015. See Document 8 for details.

H. Emergency Disposal, (Rule 62-528.455(1)(d), F.A.C.)

If the injection well is out of service, the Englewood Water District Holiday Ventures injection well IW-2 will be used as the backup disposal mechanism. Holiday Ventures IW-2 injection zone is completed into the Avon Park Formation (Eocene) from 1544 -1900 feet bls. See Document 2.

3. Agency Action

A draft permit will be issued as per Rule 62-528.310, F.A.C.

4. Public Rights (Rules 62-528.310, .315, and 325, F.A.C.)

Any interested person may submit written comments on the draft permit, and may request a public meeting, within 30 days of the public notice. A request for a public meeting shall be in writing and shall state the nature of the issues proposed to be raised at the meeting. If a public meeting is later scheduled, there will be another 30-day notice period for that meeting. Written comments or a public meeting request may be submitted to the Department of Environmental Protection, Aquifer Protection Program, 2600 Blair Stone Road, MS 3530, Tallahassee, Florida 32399-2400. All comments received within the 30-day period and during the public meeting will be considered in formulation of the Department's final decision regarding permit issuance.

After the conclusion of the public comment period and public meeting described above the Department may revise the conditions of the permit based on such public comment. Then the applicant will publish Notice of the Proposed Agency Action. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing). Accordingly, the Department's final action may be different from the position taken by it in the Notice of the Proposed Agency Action. The petition must conform to the requirements specified in the Notice and be filed (received) within 14 days of publication of the Notice in the Office of General Counsel, M.S. 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. The failure of any person to file a Petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative (hearing) under Section 120.569 and Section 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will only be at the discretion of the presiding officer upon filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

The application and draft permit are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays at the Department of Environmental Protection, South District Office, 2295 Victoria Ave., Suite 364, Fort Myers, Florida 33901, and at the Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400..

5. Agency Contact

Douglas Thornton
Engineering Specialist III
Florida Department of Environmental Protection
Aquifer Protection Program
2600 Blair Stone Road. Mail Station 3530
Tallahassee, Florida, 32399-2400
Phone: 850.245.8666