



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**
CENTRAL DISTRICT
3319 MAGUIRE BOULEVARD, SUITE 232
ORLANDO, FLORIDA 32803

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

Electronically Sent- Received Receipt Requested

mike.cannon@layne.com

Mike Cannon, District Manager
2531 Jewett Lane
Sanford, Florida 32771

Re: Intent to Issue Permit No. 1170416-002-AC
Layne Inliner, LLC – Sanford CIPP (Cured-In-Place Pipe) Liner Wetout Facility
Minor Source Air Construction Permit
Project: Initial Construction Permit

Dear Mr. Cannon:

On May 20, 2014, you submitted an Air Construction Permit Application for Layne Inliner, LLC – Sanford CIPP (Cured-In-Place Pipe) Liner Wetout Facility. This facility is located in Seminole County at 2531 Jewett Lane in Sanford, Florida.

This is the Department's Intent to Issue Permit No. 1170416-002-AC. Enclosed are the following documents: Written Notice of Intent to Issue Air Permit; Public Notice of Intent to Issue Air Permit; Draft Permit and Appendices; and, Technical Evaluation and Preliminary Determination. The Public Notice of Intent to Issue Air Permit is the actual notice that you must publish in the legal advertisement section of a newspaper of general circulation in the area affected by this project.

If you have any questions, please contact the project engineer, Jeff Rustin, P.E., at (407) 897-2930. His e-mail address is jeff.rustin@dep.state.fl.us.

Sincerely,

A handwritten signature in cursive script, reading 'F. Thomas Lubozynski'. The signature is written in black ink and is positioned above a horizontal line.

July 21, 2014

F. Thomas Lubozynski, P.E.
Waste and Air Resource Programs Administrator

Enclosures

FTL/jr

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

*In the Matter of an
Application for Air Permit by:*

Layne Inliner, LLC
2531 Jewett Lane
Sanford, Florida 32771

Project No. 1170416-002-AC
Minor Source Air Construction
Permit
Seminole County, Florida

Authorized Representative:
Mike Cannon, District Manager,
Layne Inliner, LLC

Sanford CIPP (Cured-In-Place Pipe)
Liner Wetout Facility
Project: Initial Construction Permit

Facility Location: Layne Inliner, LLC operates Sanford CIPP (Cured-In-Place Pipe) Liner Wetout Facility, which is located in Seminole County at 2531 Jewett Lane in Sanford, Florida.

Project: This is an “after-the-fact” and initial Air Construction Permit for the existing facility. Layne Inliner, LLC is a manufacturer of CIPP (Cured-In-Place Pipe) Liners for sewer pipes. The facility has been constructed and had no air permit previously.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Department of Environmental Protection’s Waste & Air Resource Programs in the Central District Office. The Permitting Authority’s physical address is: 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767. The Permitting Authority’s mailing address is: 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767; the e-mail address is DEP_CD@dep.state.fl.us. The Permitting Authority’s telephone number is 407/897-4100.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority’s project review engineer for additional information at the address or phone number listed above. In addition, electronic copies of these documents are available on the following web site:
<http://www.dep.state.fl.us/air/emission/apds/default.asp>.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

administrative hearing is filed under Sections 120.569 and 120.57, F.S., or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S., and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this written notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. A petition for administrative hearing must contain the information set forth below and must be filed (received) with the Agency Clerk in the Office of General Counsel, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, Agency.Clerk@dep.state.fl.us, before the deadline. 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 determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, any email address, telephone number and any facsimile number of the petitioner; the name, address, any email

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

address, telephone number, and any facsimile number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this written notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Executed in Orange County, Florida.



July 21, 2014

F. Thomas Lubozynski, P.E.

Waste and Air Resource Programs Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the Draft Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on July 21, 2014 to the persons listed below:

Mike Cannon, District Manager, Layne Inliner, LLC, mike.cannon@layne.com

Katrina Winder, EIT, Associate, ENVIRON Int'l, kwinder@environcorp.com

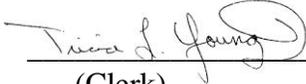
Natalie Pinheiro, ENVIRON Int'l, npinheiro@environcorp.com

Frank Burbach, P.E., Environmental Engineer, ENVIRON Int'l, fburbach@environcorp.com

Jeff Rustin, P.E., FDEP – Central District, jeff.rustin@dep.state.fl.us

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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



(Clerk)

July 21, 2014
(Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Waste and Air Resource Programs, Central District Office
Minor Source Air Construction Permit
Project No. 1170416-002-AC
Layne Inliner, LLC – Sanford CIPP (Cured-In-Place Pipe) Liner Wetout Facility
Seminole County, Florida

Applicant: The applicant for this project is Layne Inliner, LLC. The applicant's authorized representative and mailing address is:

Mr. Mike Cannon, District Manager
Layne Inliner, LLC
2531 Jewett Lane
Sanford, Florida 32771

Facility Location: Layne Inliner, LLC operates Sanford CIPP (Cured-In-Place Pipe) Liner Wetout Facility, which is located in Seminole County at 2531 Jewett Lane in Sanford, Florida.

Project: This is an "after-the-fact" and initial Air Construction Permit for the existing facility. Layne Inliner, LLC is a manufacturer of CIPP (Cured-In-Place Pipe) Liners for sewer pipes. The facility has been constructed and had no air permit previously.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Department of Environmental Protection's Waste & Air Resource Programs in the Central District Office. The Permitting Authority's physical address is: 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767. The Permitting Authority's mailing address is: 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767; the e-mail address is DEP_CD@dep.state.fl.us. The Permitting Authority's telephone number is 407/897-4100.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the physical address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application and information submitted by the applicant (exclusive of confidential records under Section 403.111, F.S.). Interested persons may contact the Permitting Authority's project engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/emission/apds/default.asp>.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of this Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting

Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. A petition for administrative hearing must contain the information set forth below and must be filed (received) with the Agency Clerk in the Office of General Counsel, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, Agency.Clerk@dep.state.fl.us, before the deadline. 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 determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, any email address, telephone number and any facsimile number of the petitioner; the name, address, any email address, telephone number, and any facsimile number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this written notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

CENTRAL DISTRICT
3319 MAGUIRE BOULEVARD, SUITE 232
ORLANDO, FLORIDA 32803

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

Electronically Sent- Received Receipt Requested

mike.cannon@layne.com

FINAL PERMIT

PERMITTEE

Layne Inliner, LLC
2531 Jewett Lane
Sanford, Florida 32771

Authorized Representative:
Mike Cannon, District Manager

Air Permit No. 1170416-002-AC
Permit Expires: September 30, 2014
Site Name: Sanford CIPP (Cured-In-Place
Pipe) Liner Wetout Facility
Minor Source Air Construction Permit
Project Name: Initial Construction Permit

This is the initial Air Construction Permit for the facility. Layne Inliner, LLC (Standard Industrial Classification No. 1623) is located in Seminole County at 2531 Jewett Lane in Sanford, Florida. The UTM coordinates are Zone 17, 471.33 km East, and 3186.39 km North.

This final permit is organized by the following sections:

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Facility-wide and Emissions Unit Specific Conditions
- Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of final permit. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of final permit, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice

of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. 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 determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

All petitions filed under these rules shall contain:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301 of the Florida Administrative Code.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000,

and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Orange County, Florida

F. Thomas Lubozynski, P.E.
Waste & Air Resource Programs Administrator

Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on _____ to the persons listed below.

Mike Cannon, District Manager, Layne Inliner, LLC, mike.cannon@layne.com

Katrina Winder, EIT, Associate, ENVIRON Int'l, kwinder@environcorp.com

Natalie Pinheiro, ENVIRON Int'l, npinheiro@environcorp.com

Frank Burbach, P.E., Environmental Engineer, ENVIRON Int'l, fburbach@environcorp.com

Jeff Rustin, P.E., FDEP – Central District, jeff.rustin@dep.state.fl.us

Clerk Stamp

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

(Clerk)

(Date)

SECTION 1. GENERAL INFORMATION (DRAFT)

FACILITY AND PROJECT DESCRIPTION

Layne Inliner – Sanford CIPP (Cured-In-Place Pipe) Liner Wetout Facility

The existing facility consists of the following emissions unit.

Facility ID No. 1170416	
ID No.	Emission Unit Description
001	CIPP (Cured-In-Place Pipe) Liner Wetout Facility

Facility consists of 3 tanks, catalyst mixing, wetout conveyor, waste (scrap) resin area, and truck loading area. VOC/HAP (styrene) emissions from the facility are fugitive.

Project Description

This project is the Initial Air Construction Permit for the existing facility.

The facility had a no air permit previously. An emissions analysis by the environmental consulting engineering firm showed the facility is required to have an air permit.

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a non-Title V source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- The facility is a natural minor source of air pollution for volatile organic compounds (VOCs), Hazardous Air Pollutants (HAPs), and particulate matter (PM).

PERMIT HISTORY/AFFECTED PERMITS

This is the initial air construction permit for the facility. The facility had a no air permit previously.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District, Waste & Air Resource Programs. The Central District's mailing address and phone number is:

Florida Department of Environmental Protection
Central District Office
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
Telephone: 407-897-4100

All documents related to applications for permits shall be submitted to the above address or electronically to the following address: **DEP_CD@dep.state.fl.us**. In each document, clearly identify the Air Permit Project No. 1170416-002-AC.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Compliance Assurance Program. (Use the above mailing or e-mail address.) In each document, clearly identify the Air Permit Project No. 1170416-002-AC and specific emission unit.
3. Appendices: The following Appendices are attached as part of this permit:
 - a. Appendix A. Citation Formats and Glossary of Common Terms;
 - b. Appendix B. General Conditions;
 - c. Appendix C. Common Conditions; and
 - d. Appendix D. Process Flow Diagram
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
[Rule 62-4.080, F.A.C.]
6. Modifications: Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as "Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility".
[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU No. 001 – CIPP (Cured-In-Place Pipe) Liner Wetout Facility

This section of the permit addresses the following emission unit.

ID No.	Emission Unit Description
001	CIPP (Cured-In-Place Pipe) Liner Wetout Facility

PERFORMANCE RESTRICTIONS

- A.1. Permitted Capacity: The maximum permitted styrenated resin usage is 3,340,000 gallons per any consecutive 12-month period.
[Rules 62-4.070(3) and 62-210.200(247), Potential to Emit, F.A.C.]

- A.2. Restricted Operation: The hours of operation are not limited (8,760 hours per year).
[Rule 62-210.200(PTE), F.A.C.]

- A.3. VOC Emissions: Pursuant to Rule 62-296.320(1)(a), F.A.C., the following procedures shall be used to minimize emissions:
 - a. Maintain tightly fitting cover, lids, etc. on all containers of VOCs when they are not being handled, used, etc.;
 - b. All equipment, fittings, valve lines, pipes, drums, tanks, etc. shall be properly operated and maintained;
 - c. Prevent excessive air turbulence across exposed VOCs; and
 - d. All VOC spills shall be attended to immediately and waste properly disposed, recycled, etc.
[Rule 62-296.320(1), F.A.C.]

- A.4. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. An objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-210.200(214) and 62-296.320(2), F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU No. 001 – CIPP (Cured-In-Place Pipe) Liner Wetout Facility

EMISSIONS STANDARDS

- A.5. VOC Emission Limitations: The maximum facility-wide VOC emissions are limited as follows:

Pollutant	Emission Limits (per any consecutive 12 month period)
Total Volatile Organic Compounds (VOCs) ¹	Less than 7,000 pounds/year (< 3.5 tpy)

{Permitter Notes: In the Emissions Calculations Chart, which was an attachment to the air construction permit application, the PTE for total VOCs was 3.32 tons/year without restriction to operation hours (8,760 hours per year).}

[Rules 62-4.070(3) and 62-210.200(247), Potential to Emit, F.A.C.]

- A.6. Visible Emissions Limitation: Visible emissions from each particulate emissions source are limited to less than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.]

RECORDS AND REPORTS

- A.7. Monthly Log: In order to demonstrate compliance with Specific Condition Nos. **A.1.** and **A.5.**, the permittee shall maintain a log at the facility for a period of at least 5 years from the date the data is recorded. The log shall be made available to the Department upon request. The log shall contain the following:

- a. Facility Name, Facility ID No. (i.e., 1170416);
- b. Month and year of record;
- c. Most recent monthly total of styrenated resin usage (tons);
- d. Most recent monthly total of VOC/HAP emissions (tons);
- e. Most recent consecutive 12-month total of styrenated resin usage usage (tons); and
- f. Most recent consecutive 12-month total of VOC/HAP emissions (tons).

Monthly logs shall be completed by the end of the following month.

[Rule 62-4.070(3), F.A.C.]

- A.8. Additional Recordkeeping Requirements: Records specified in Specific Condition No. **A.7.** (previous condition) must document the method, calculations, and formulas used in determining the usage rate and the emission rate. All calculations, including those used to derive emissions, must be clearly documented, and may be presented in the form of a template of sample calculations. The records must be available for review on site by the Department. [Rule 62-4.070(3), F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU No. 001 – CIPP (Cured-In-Place Pipe) Liner Wetout Facility

- A.9. Supporting Documentation: Supporting documentation (chemical usage tracking logs, “As Supplied” sheets, Safety Data Sheets, EPA data sheets, purchase orders, waste shipment/disposal records, etc.) shall be kept for each chemical and associated products which includes sufficient information to determine usage rates and emissions for a minimum of five (5) years. Supporting documentation must be made available to the Department upon request. Documentation of each chemical reclaimed will use a mass balance method to determine usage/emissions (amount used minus amount collected for disposal or recycle). [Rule 62-4.070(3), F.A.C.]
- A.10. Record Retention: The records required in Specific Condition No. **A.7.** shall be recorded in a permanent form suitable for inspection and made available to the Department upon request. The records shall be maintained onsite for a minimum of five (5) years. [Rule 62-4.070(3), F.A.C.]

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SECTION 4. APPENDICES

Contents

Appendix A. Citation Formats and Glossary of Common Terms

Appendix B. General Conditions

Appendix C. Common Conditions

Appendix D. Process Flow Diagram

SECTION 4. APPENDIX A

Citation Formats and Glossary of Common Terms

CITATION FORMATS

The following illustrate the formats used in the permit to identify applicable requirements from permits and regulations.

New Permit Numbers

Example: Permit Nos. 0992222-001-AC, 0992222-001-AF, 0992222-001-AO, or 0992222-001-AV

Where: “099” (first three numbers) represents the specific county ID number in which the project is located

“2222” represents the specific facility ID number for that county

“001” identifies the specific permit project number

“AC” identifies the permit as an air construction permit

“AF” identifies the permit as a minor source federally enforceable state operation permit

“AO” identifies the permit as a minor source air operation permit

“AV” identifies the permit as a major Title V air operation permit

Florida Administrative Code (F.A.C.)

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

Code of Federal Regulations (CFR)

Example: [40 CFR 60.7]

Means: Title 40, Part 60, Section 7

GLOSSARY OF COMMON TERMS

° F: degrees Fahrenheit

AAQS: Ambient Air Quality Standard

acf: actual cubic feet

acfm: actual cubic feet per minute

ARMS: Air Resource Management System (DEP database)

BACT: best available control technology

bhp: brake horsepower

Btu: British thermal units

CAM: compliance assurance monitoring

CEMS: continuous emissions monitoring system

cfm: cubic feet per minute

CFR: Code of Federal Regulations

CAA: Clean Air Act

CMS: continuous monitoring system

CO: carbon monoxide

CO₂: carbon dioxide

COMS: continuous opacity monitoring system

DARM: Division of Air Resource Management

DEP: Department of Environmental Protection

Department: Department of Environmental Protection

SECTION 4. APPENDIX A

Citation Formats and Glossary of Common Terms

dscf: dry standard cubic feet	Pb: lead
dscfm: dry standard cubic feet per minute	PM: particulate matter
EPA: Environmental Protection Agency	PM₁₀: particulate matter with a mean aerodynamic diameter of 10 microns or less
ESP: electrostatic precipitator (control system for reducing particulate matter)	ppm: parts per million
EU: emissions unit	ppmv: parts per million by volume
F.A.C.: Florida Administrative Code	ppmvd: parts per million by volume, dry basis
F.A.W.: Florida Administrative Weekly	QA: quality assurance
F.D.: forced draft	QC: quality control
F.S.: Florida Statutes	PSD: prevention of significant deterioration
FGD: flue gas desulfurization	psi: pounds per square inch
FGR: flue gas recirculation	PTE: potential to emit
Fl: fluoride	RACT: reasonably available control technology
ft²: square feet	RATA: relative accuracy test audit
ft³: cubic feet	RBLC: EPA's RACT/BACT/LAER Clearinghouse
gpm: gallons per minute	SAM: sulfuric acid mist
gr: grains	scf: standard cubic feet
HAP: hazardous air pollutant	scfm: standard cubic feet per minute
Hg: mercury	SIC: standard industrial classification code
I.D.: induced draft	SIP: State Implementation Plan
ID: identification	SNCR: selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides)
kPa: kilopascals	SO₂: sulfur dioxide
lb: pound	TPD: tons/day
MACT: maximum achievable technology	TPH: tons per hour
MMBtu: million British thermal units	TPY: tons per year
MSDS: material safety data sheets	TRS: total reduced sulfur
MW: megawatt	UTM: Universal Transverse Mercator coordinate system
NESHAP: National Emissions Standards for Hazardous Air Pollutants	VE: visible emissions
NO_x: nitrogen oxides	VOC: volatile organic compounds
NSPS: New Source Performance Standards	
O&M: operation and maintenance	
O₂: oxygen	

SECTION 4. APPENDIX B

General Conditions

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are “permit conditions” and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
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 by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any 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.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and 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.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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.
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, as 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.
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:
 - a. Have access to and copy any records that must be kept under conditions of the 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. Reasonable time may depend on the nature of the concern being investigated.
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:

SECTION 4. APPENDIX B

General Conditions

- 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 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.
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 prescribed 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.
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. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
- a. Determination of Best Available Control Technology (not applicable);
 - b. Determination of Prevention of Significant Deterioration (not applicable); and
 - c. Compliance with New Source Performance Standards (not applicable).
14. 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 records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all 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:
 - (a) The date, exact place, and time of sampling or measurements;

SECTION 4. APPENDIX B

General Conditions

- (b) The person responsible for performing the sampling or measurements;
 - (c) The dates analyses were performed;
 - (d) The person responsible for performing the analyses;
 - (e) The analytical techniques or methods used;
 - (f) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the 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.

SECTION 4. APPENDIX C

Common Conditions

Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the facility.

EMISSIONS AND CONTROLS

1. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed 2 hours in any 24-hour period unless specifically authorized by the Department for longer duration. Pursuant to Rule 62-210.700(5), F.A.C., the permit subsection may specify more or less stringent requirements for periods of excess emissions. Rule 62-210-700(Excess Emissions), F.A.C., cannot vary or supersede any federal NSPS or NESHAP provision. [Rule 62-210.700(1), F.A.C.]
4. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
5. Excess Emissions - Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
6. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
7. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(Definitions), F.A.C.]
8. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20%

SECTION 4. APPENDIX C

Common Conditions

opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

9. Unconfined Particulate Emissions:

- a. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.
- b. Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.
- c. Reasonable precautions include the following:
 - (1) Paving and maintenance of roads, parking areas and yards.
 - (2) Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
 - (3) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
 - (4) Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
 - (5) Landscaping or planting of vegetation.
 - (6) Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
 - (7) Confining abrasive blasting where possible.
 - (8) Enclosure or covering of conveyor systems.

[Rule 62-296.320(4)(c), F.A.C.]

RECORDS AND REPORTS

10. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least 5 years following the date on which such measurements, records, or data are recorded, unless otherwise specified by Department rule. Records shall be made available to the Department upon request. [Rule 62-4.160, F.A.C.]
 - a. *Annual Operating Report for Air Pollutant Emitting Facility*
 - (1) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year for the following facilities:
 - a. All Title V sources.
 - b. All synthetic non-Title V sources.

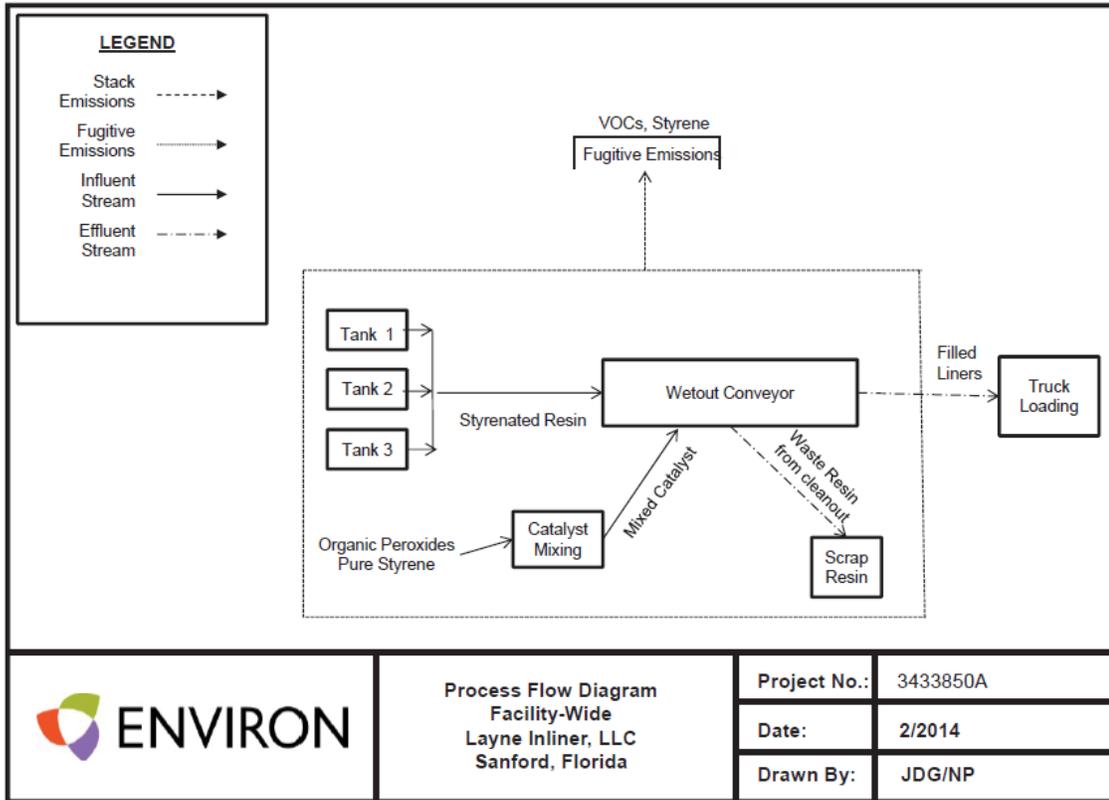
SECTION 4. APPENDIX C

Common Conditions

- c. All facilities with the potential to emit ten (10) tons per year or more of volatile organic compounds or twenty-five (25) tons per year or more of nitrogen oxides and located in an ozone nonattainment area or ozone air quality maintenance area.
- d. All facilities for which an annual operating report is required by rule or permit.
- (2) Notwithstanding paragraph 62-210.370(3)(a), F.A.C., no annual operating report shall be required for any facility operating under an air general permit.
- (3) The annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) division, district or DEP-approved local air pollution control program office by April 1 of the following year. If the report is submitted using the Department's electronic annual operating report software, there is no requirement to submit a copy to any DEP or local air program office.
- (4) Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C., for purposes of the annual operating report.
- (5) Facility Relocation. Unless otherwise provided by rule or more stringent permit condition, the owner or operator of a relocatable facility must submit a Facility Relocation Notification Form (DEP Form No. 62-210.900(6)) to the Department at least 30 days prior to the relocation. A separate form shall be submitted for each facility in the case of the relocation of multiple facilities which are jointly owned or operated.

[Rule 62-210.370(3), F.A.C.]

SECTION 4. APPENDIX D
Process Flow Diagram





**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Layne Inliner, LLC
2531 Jewett Lane
Sanford, Florida 32771

Sanford CIPP (Cured-In-Place Pipe) Liner Wet-Out Facility
Facility ID No. 1170416

PROJECT

Project No. 1170416-002-AC
Application for Air Construction Permit
Project Name: Initial Construction Permit

COUNTY

Seminole County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Waste and Air Resource Programs
Central District Office
Orlando, Florida 32803-3767
DEP_CD@dep.state.fl.us

July 18, 2014

Prepared by Jeff Rustin, P.E.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210, and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Project Description:

A. Applicant:

Mr. Mike Cannon, District Manager
Layne Inliner, LLC
2531 Jewett Lane
Sanford, Florida 32771
mike.cannon@layne.com

B. Professional Engineer:

Mr. Frank Burbach, P.E.
ENVIRON International Corporation
1600 Parkwood Circle, Suite 310
Atlanta, GA 30339
fburbach@envirocorp.com

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

C. Application Contact:

Mr. Mike Cannon, District Manager
Layne Inliner, LLC
2531 Jewett Lane
Sanford, Florida 32771
mike.cannon@layne.com

D. Project Location:

2531 Jewett Lane
Sanford, Florida 32771

E. Project Summary:

This is an “after-the-fact” and initial Air Construction Permit for the existing facility. Layne Inliner, LLC is a manufacturer of CIPP (Cured-In-Place Pipe) Liners for sewer pipes. The facility has been constructed and had no air permit previously

F. Application Information:

Application Received on: 05/20/2014
Requested Additional Information on: 05/30/2014
Received Additional Information on: 07/02/2014 thru 7/17/2014
Application determined to be complete on: 7/18/2014

II. PSD Applicability for Project

The VOC of concern is styrene. The Potential to Emit for VOCs (Volatile Organic Compounds) is 3.32 tons per year, which is less than 250 tons per year limit for VOCs. Therefore, no additional PSD Applicability Evaluation is necessary.

III. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes, and Chapters 62-204 through 62-297, F.A.C., as indicated below.

Subject to:	Y/N	Comments
Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration	N	The Potential to Emit for VOCs is less than 250 tons per year.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Subject to:	Y/N	Comments
Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards	Y	The facility is a potential source of unconfined particulate matter emissions. Visible emissions for each source that emits particulates are limited to less than 20 percent opacity.
Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor)	Y	The facility is a source of VOCs and odors. Potential to emit for VOCs is 3.32 tons per year, based on unlimited operation (8,760 hours/year).
Rule 62-296.400, F.A.C. – Stationary Source Emission Standards	N	There is no applicable source category.
Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC)	N	Seminole County is an attainment area for ozone
Rule 62-204.800(8), F.A.C. - Standards of Performance for New Stationary Sources (NSPS – 40 CFR 60)	N	No applicable categories
Rule 62-204.800(11), F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS – 40 CFR 63)	N	No applicable categories.
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution	Y	The Potential to Emit for VOCs is less than 100 tons per year. Facility is classified as a natural minor facility.
Rule 62-297.310, F.A.C. – General Compliance Test Requirements	N	No visible emission testing is required.

IV. Summary of Emissions

Pollutant	EU No. and brief description	Potential Emissions (tons/year)	Major Source Thresholds (tons/year)
VOC (styrene)	EU 001 CIPP (Cured-In-Place Pipe) Liner Wetout Facility	3.32*	100
Total HAPs (styrene)	EU 001 CIPP (Cured-In-Place Pipe) Liner Wetout Facility	3.32*	100
Particulate (PM)	EU 001 CIPP (Cured-In-Place Pipe) Liner Wetout Facility	0.77*	100

* The “Emission Calculations” section of the application (attached) calculated the maximum amount of styrenated resin usage to be 3,340,000 gallons per any consecutive

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

12-month period based on a maximum 3,500 pounds per hour throughput capability estimated by facility personnel. Based on that maximum amount, additional assumptions about the product, and unlimited operation (8,760 hours), the “Emission Calculations” section arrived at the above Potential to Emit Amounts.

V. Discussion

The facility is a VOC/HAP emission source with potential to emit of 3.32 tons per year of VOC/HAP (styrene) based on 8,760 hours of operation. USEPA’s Tanks 4.09d software was utilized to compute fugitive VOC/HAP emissions from the 3 tanks. Fugitive VOC/HAP emissions from other emission sources were computed using VOC/HAP emission factors that were based on an Indiana Department of Environmental Management (IDEM) approved stack test from November 2006 for the Cured-In-Place Pipe (CIPP) Product (like source) as listed in a competitor’s air permit (Insituform Technologies, Inc.-Permit Number F097-31296-00585, Dated December 2011).

VI. Federal NSPS and/or NESHAP Provisions

No applicable categories.

VII. Conclusions

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

VIII. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and adopted federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection, Waste & Air Resource Programs, Central District Office, 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767, by e-mail at jeff.rustin@dep.state.fl.us or by phone at 407-897-4100.

Layne Inliner
 Sanford, Florida
 Emission Calculations

Emission Unit ID	Emissions					
	(Tons/year)			(Pounds/day)		
	VOC	HAPs (styrene)	PM	VOC	HAPs (styrene)	PM
<i>EU1 -- Catalyst Mixing</i>	2.02	2.02	0.77	11.09	11.09	4.20
<i>EU2 -- Tanks</i>	0.05	0.05	--	0.26	0.26	--
<i>EU3 -- Wetout Conveyor</i>	0.48	0.48	--	2.63	2.63	--
<i>EU4 -- Scrap</i>	0.19	0.19	--	1.05	1.05	--
<i>EU5 -- Fugitive Emissions from Equip Leaks</i>	0.58	0.58	--	3.18	3.18	--
Facility-wide	3.32	3.32	0.77	18.22	18.22	4.20

Layne Inliner

Sanford, Florida

Emission Calculations

Emission Unit ID: EU1 -- Catalyst Mixing

<u>Emission Factors</u>	lbs/ton of resin		<u>Maximum Annual Operating Hours</u>		
VOC-HAP	0.264	Note 1	8760	hours per year	
PE	0.10	Note 2	24	hours per day	Note 3

<u>Emissions (lbs/hour)</u>	
VOC-HAP	0.46
PE	0.18

<u>Maximum Hourly Resin usage</u>		
3500	lbs	Note 4
1.75	tons	

<u>Emissions (lbs/day)</u>	
VOC-HAP	11.09
PE	4.20

<u>Emissions (tons/year)</u>	
VOC-HAP	2.02
PE	0.77

Notes

- 1 VOC/HAP emission factors are based on an Indiana Department of Environmental Management (IDEM) approved stack test from November 2006 for the Cured In-Place Pipe (CIPP) Product (like source) as listed in a competitors air permit (Insituform Technologies, Inc.- Permit Number F097-31296-00585, Dated December 2011) issued by IDEM, plus a 10% safety factor to create a more conservative emission calculation.
- 2 3 lbs of catalyst mix added per 100 lbs of Resin;
1 lb Perkadox added per 3 lbs of catalyst mix
Assume 0.01 lbs of Perkadox emitted per lb of Perkadox in catalyst mix processed. Assume Perkadox emitted as PM.
- 3 Facility cannot feasibly operate on a 24 hour basis due to inherent operational limitations, however, we have calculated the PTE assuming these
- 4 Maximum hourly resin usage based on information provided from facility personnel

Layne Inliner

Sanford, Florida

Emission Calculations

Emission Unit ID: EU2 -- Tanks

Emission Unit ID	Components ^{2,3}	Total Losses (lbs/day)	Total Losses ¹ (lbs year)	Total VOC Emissions (tons/year) ⁴	Total HAP emissions (tons/year)
Tanks 1, 2, & 3 Combined	Styrene	0.26	96.14	0.05	0.05
	Resin	0.00	0.04	0.00	
	Total	0.26	96.18	0.05	0.05

Notes:

- 1 Emissions calculated using TANKS 4.0.9d with maximum potential annual throughput of 3.34 million gallons.
- 2 Maximum styrene content assumed to equal 41% (based on MSDS for L010-PPA-33)
- 3 Residual oil NO. 6 used as a surrogate for resin since it is representative of the actual component of resin
- 4 Maximum throughput assumed to equal 3.34 million gallons. Calculated as maximum hourly usage of 3,500 lbs X 8760 hours per year divided by product density of 9.18 lbs/gallon.

	96.18 lbs VOC/yr
	0.011 lbs VOC/hr
3500 lbs/hr	
0.38 1000 gallon/hr	2.87964E-05 lbs VOC/gal thru
	0.029 lbs VOC/1000 gal thru

Layne Inliner

Sanford, Florida

Emission Calculations

Emission Unit ID: EU3 -- Wetout Conveyor

<u>Emission Factors</u>	lbs/ton of resin		<u>Annual Operating Hours</u>		
Styrene	0.0627	Note 1	8760	hours per year	
			24	hours per day	Note 2

<u>Emissions</u>	
Styrene (lbs/hour)	0.110
Styrene (lbs/day)	2.633
Styrene (tons/year)	0.481

<u>Maximum Hourly Resin usage</u>		
3500	lbs	Note 3
	1.75 tons/hr	
	15330 tons/yr	

Notes

- 1 VOC/HAP emission factors are based on an Indiana Department of Environmental Management (IDEM) approved stack test from November 2006 for the Cured In-Place Pipe (CIPP) Product (like source) as listed in a competitors air permit (Insituform Technologies, Inc.- Permit Number F097-31296-00585, Dated December 2011) issued by IDEM, plus a 10% safety factor to create a more conservative emission calculation.
- 2 Facility cannot feasibly operate on a 24 hour basis due to inherent operational limitations, however, we have calculated the PTE
- 3 Maximum hourly resin usage based on information provided from facility personnel

Layne Inliner

Sanford, Florida

Emission Calculations

Emission Unit ID: EU4 -- Scrap

Emission Factors	lbs/ton of resin	
Styrene	23.35	Note 1

Annual Operating Hours		
8760	hours per year	Note 2
24	hours per day	Note 3

Emissions	Emissions
Styrene (lbs/hour)	0.044
Styrene (lbs/day) ^{Note 3}	1.051
Styrene (tons/year)	0.192

Waste Scrap Generation

Total Annual Generation (lbs)	32850
Total Annual Generation (tons)	16.43
Average Hourly Generation (tons/hour)	0.002

Note 4

Notes

- VOC/HAP emission factors are based on an Indiana Department of Environmental Management (IDEM) approved stack test from November 2006 for the Cured In-Place Pipe (CIPP) Product (like source) as listed in a competitors air permit (Insituform Technologies, Inc.- Permit Number F097-31296-00585, Dated December 2011) issued by IDEM, plus a 10% safety factor to create a more conservative emission calculation.
- Facility cannot feasibly operate on a 24 hour basis due to inherent operational limitations, however, we have calculated the PTE assuming
- The daily emissions are based on multiplying the hourly emissions by 24.
- Approximately 3.26 gallons of waste are generated at the end of each 8-hour shift (20 feet of hose; 2 inch diameter) or 30 lbs of waste resin. To estimate PTE, we multiplied this by 3 shifts (24 hours) x 365 days per year = 32,850 lbs of scrap per year = 16.43 tons/year.

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Emission Calculations

Emission Unit ID: EU5 -- Fugitive Emissions from Equipment Leaks

Equipment Components	Stream Type	Emission Factor per Component (kg/hr) ¹	Number of Components	Number of components x Max % VOC/100 ¹	VOC/HAP Emission Rate (kg/hr)	VOC/HAP Emission Rate (lbs/hr)	VOC/HAP Emission Rate (lbs/day)	VOC/HAP Emission Rate (tons/year) ²
Valves	Light Liquid	0.00403	14	5.74	0.0231322	0.05	1.22	0.22
Seals/Pumps	Light Liquid	0.01990	4	1.64	0.032636	0.07	1.72	0.31
Flanges/Connectors	Light Liquid	0.00183	6	2.46	0.0045018	0.01	0.24	0.04
Total Emission Rate						0.13	3.18	0.58

Notes

- 1 Emission factor and calculations from USEPA's Protocol for Equipment Leak Emission Estimates (Document 453/R-95-017, November 1995) Table 2-1:SOcMI Average Emission Factors plus a 25% safety factor.
- 2 Annual operating hours assumed to be 8760
- 3 Maximum VOC content assumed to equal 41% based on historic resin useage and MSDS

454 gr/lb