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STATE OF TENNESSEE  
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
JOHNSON CITY ENVIRONMENTAL FIELD OFFICE

2305 SILVERDALE ROAD  
JOHNSON CITY, TENNESSEE 37601-2162  
(423) 854-5400 STATEWIDE 1-888-891-8332 FAX (423) 854-5401

August 9, 2016

Mr. Chris Taylor  
CEO  
EnviraGlass, LLC  
956 Tyne Boulevard  
Nashville, TN 37220-1507

RE: **Compliance Evaluation Inspection (CEI)**  
EnviraGlass, LLC  
NPDES Permit TN0081582  
Sullivan County

Dear Mr. Taylor:

During the period of August 2-3, 2016, Tennessee Department of Environment and Conservation, Division of Water Resources personnel traveled to the above referenced facility to perform a routine inspection evaluating compliance with individual NPDES permit TN0081582. Mr. Michael Fox of Appalachian Environmental Resources met Division personnel at the site on August 3, 2016, and the Division thanks him for his assistance. In addition to the items below, also see the enclosed ICIS NPDES Facilities Inspection Report and outfall observations for further information.

**I. Permit**

NPDES permit TN0081582 authorizes discharge of stormwater, filter backwash, glass washing, and glass edger wastewaters via internal monitoring point (IMP) 01A and non-contact cooling water and overflows from glass washing and glass edger wastewaters to the South Fork Holston River via outfall 001. The permit also authorizes discharges of stormwater from outfalls SW1 and SW2. The permit bases limitations for IMP 01A on the Effluent Limitation Guidelines for Best Practicable Control Technology (BPT) specified in Title 40 CFR Part 426, Subpart F (Automotive Glass Tempering Subcategory). Overall mass limits for IMP 01A are derived from the applicable BPT limitations and the average daily tempering production rate specified in the NPDES permit renewal application originally submitted by Glasway, LLC, in December 2013. The current permit was issued to Heritage Glass, LLC, but the Division received a request to transfer the permit to EnviraGlass, LLC in June 2016. Observation of the site and discussion with Mr. Fox revealed that the facility was currently closed, employees were not present, and timing of any future operations was uncertain. A possible deficiency in facility permitting is detailed below.

1. Review of the 2013 permit application revealed that it was unclear if the tempered glass production rate specified reflected material used for automotive purposes. Multiple media reports

have indicated this facility produces glass for solar panels, not automotive glass. This discrepancy in the type of glass produced at the facility may impact the discharge limitations specified in NPDES permit TN0081582. The Division requests clarification of the types of glass to be tempered and the production rate associated with each type.

## **II. Records/Reports**

Because the facility was closed, no records were available for review. Aside from the period from October 2014 through May 2015 when Heritage Glass operations were active, monthly Discharge Monitoring Reports (DMRs) indicating No Discharge (or NODI=C) had been submitted in either hard copy or electronic form as required since NPDES permit TN0081582 became effective. Mr. Fox indicated that he would continue submitting DMRs indicating No Discharge as long as the facility remained closed and inactive.

## **III. Facility Site Review, Self-Compliance Program, and Operations & Maintenance**

As noted above, the facility was closed at the time of inspection. Therefore, limited or no evaluation of these program areas was possible. Deficiencies noted in these areas are detailed in other pertinent sections of this report.

## **IV. Effluent/Receiving Waters**

NPDES TN0081582 outfalls or receiving waters were observed during the inspection. The ultimate discharge point for outfall 001 was not accessible from the facility property, so field observations were made at a neighboring facility. Direct observation of outfalls SW1 and SW2 was not possible because access to the facility was not available. Division personnel observed the receiving water, AFG Stream, at the facility boundary fence at a neighboring facility. The outfall observations are summarized in a separate enclosure.

## **V. Flow Measurement**

IMP 01A, outfall 001, and outfalls SW1 and SW2 effluent flow measurement equipment could not be observed at the time of this inspection because the facility was closed. As detailed in the United States Environmental Protection Agency *NPDES Compliance Inspection Manual* (EPA 305-X-04-001, July 2004), flow measurements should be within  $\pm 10\%$  of actual flow. Flow meter calibration should be checked frequently, but must be checked at least once per year.

## **VI. Laboratory**

Part I B.3. of NPDES permit TN0081582 requires pollutant analyses be performed in accordance with methods specified in Title 40 CFR Part 136, and permit Part II A.4. requires adequate laboratory controls and appropriate quality assurance procedures. Revisions to Part 136, effective June 18, 2012, explicitly detail required laboratory quality assurance and quality control (QA/QC) components. Current Division

guidance documents regarding appropriate QA/QC for a number of common wastewater analyses is available online at <http://www.tn.gov/environment/article/wr-ftc-waste-water-information>. Laboratory equipment and records were not reviewed during this inspection because the facility was closed. In order to ensure NPDES permit compliance, site-specific standard operating procedures (SOPs) detailing sample collection and handling, laboratory analysis, and laboratory QA/QC procedures, must be developed and implemented as necessary before discharge occurs.

### **VII. Sludge Handling/Disposal**

Because the facility was not in operation, procedures for any necessary sludge handling and disposal could not be evaluated. The settling ponds serving IMP 01A may require periodic cleanout. As a reminder, NPDES permit TN0081582 Part I A. contains requirements for disposal of sludge or other material removed by any treatment works.

### **VIII. Pollution Prevention and Storm Water**

NPDES permit TN0081582 Part IV contains requirements for a stormwater pollution prevention plan (SWPPP) and associated measures and procedures based on the requirements of Tennessee Stormwater Multi-Sector General Permit for Industrial Activities (TMSP) Sector E, which applies to discharges associated with industrial activity from glass, clay, cement, concrete, and gypsum product manufacturing facilities. Review of the SWPPP was not performed because the facility was closed and not in operation. However, deficiencies were noted during the inspection as detailed below.

1. Observation of the facility from the boundary fence revealed the presence of multiple large cullet and scrap material piles along the northwestern and southern sides of the site. These piles were partially contained by concrete barrier blocks, but the containment was not entirely effective as evidenced by migration of materials outside the barriers. Satellite or aerial photography of the area also appears to indicate migration of cullet and/or other materials stored at the site. NPDES permit TN0081582 requires, in part, that the SWPPP include an inventory of materials at the site exposed to stormwater, risk identification and summary of potential pollutant sources, a description of stormwater management controls appropriate for the facility based on potential sources of pollutants, and good housekeeping measures. The permit also requires implementation of stormwater management controls and good housekeeping measures appropriate for the facility in order to eliminate or minimize discharge of pollutants in stormwater runoff. Additional measures must be implemented to contain materials at the site and prevent their mobilization in stormwater runoff.

### **IX. Additional Comments and Recommendations**

Miscellaneous additional comments and recommendations noted during the inspection are discussed below.

1. A Division representative spoke with Mr. Allen Clark, who was designated as the Plant Manager in the permit transfer application received in June 2016, regarding the facility status. Mr. Clark

confirmed that the facility was closed and employees were not supposed to be on the property. Mr. Clark also did not know when or if future operations would occur.

## **X. Conclusion**

Compliance with NPDES permit, TMSP, and CGP requirements helps ensure discharges that are protective of downstream fish and aquatic life and water quality. The division requests that you provide, by September 6, 2016, a detailed update on facility status and proposed operations. Additionally, develop and submit, also by September 6, 2016, a detailed action plan and proposed implementation schedule addressing the numbered points discussed in sections I. and VIII. above. Thank you for your efforts to ensure permit compliance and to protect state water quality. If I may be of assistance in matters concerning this report, please contact me via telephone at (423) 854-5456 or via email at [Bryan.Carter@tn.gov](mailto:Bryan.Carter@tn.gov).

Sincerely,



Bryan B. Carter  
Environmental Protection Specialist  
Division of Water Resources  
Johnson City Environmental Field Office  
Reviewed by:



Kevin Rice  
Program Coordinator  
Division of Water Resources  
Johnson City Environmental Field Office  
(423) 854-5462  
[Kevin.Rice@tn.gov](mailto:Kevin.Rice@tn.gov)

BBC/KR/150116223

Enclosures

cc: Mr. Tim Carr, EnviraGlass (via email)  
Mr. Allen Clark, Plant Manager, EnviraGlass (via email)  
Mr. Michael Fox, Appalachian Environmental Resources (via email)  
Ms. Maybelle Sparks, DWR Water-Based Systems, Nashville (via email)  
Mr. Chris Rhodes, DWR Manager, Johnson City EFO (via email)  
Mr. Kevin Rice, DWR Program Coordinator, Johnson City EFO (via email)  
Mr. Jason Benton, DWR, Johnson City EFO (via email)  
DWR Compliance and Enforcement Unit, Nashville (via email)  
File Copy, DWR, Johnson City EFO



TDEC - Division of Water Resources  
Johnson City Field Office

ICIS NPDES Facilities Inspection Report

Facility Data

NPDES ID:  Facility Site Name:   
 Address:   
 Permit Eff. Date:  Permit Exp Date:  SIC Code:

Compliance Monitoring Information

Compliance Monitoring Activity Name:   
 \* If Bio Monitoring is selected above, select the method used:   
 Compliance Monitoring Activity:

Compliance Monitoring Dates/Times

Entry Date/Time (mm/dd/yyyy hh:mm):  Exit Date/Time (mm/dd/yyyy hh:mm):

Facility Representatives

Mike Fox, Consultant, Appalachian Environmental Resources, (423) 956-2900 Allen Clark, Plant Manager, EnviraGlass, (423) 408-2030 (via telephone)	Chris Taylor, CEO, (615) 804-4884 Tim Carr, Manufacturing Manager, (913) 309-0449 Allen Clark, Plant Manager, EnviraGlass, (423) 408-2030
On-Site Representative(s) Title, Phone Number	Responsible Official(s), Title, Phone Number

Statute and Section Information

Federal Statute:  State Statute:   
 Programs:   
 Compliance Monitoring Reason:   
 Compliance Monitoring Agency Type:  Agency Name:   
 Did EPA assist/ Inspection?  Time Physically conducting activity: Days:  Hours:   
 Inspection Type:  Compliance Monitoring Action Outcome:   
 Lead Agency:  Compliance Monitoring Rating Code:   
 If Joint Inspection, what was the purpose of the other party?

Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input checked="" type="checkbox"/> Self - Compliance Program	<input type="checkbox"/> Pretreatment
<input checked="" type="checkbox"/> Records / Records	<input type="checkbox"/> Compliance Schedule	<input checked="" type="checkbox"/> Pollution Prevention
<input checked="" type="checkbox"/> Facility Site Review	<input checked="" type="checkbox"/> Laboratory	<input checked="" type="checkbox"/> Storm Water
<input checked="" type="checkbox"/> Effluent / Receiving Waters	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow
<input checked="" type="checkbox"/> Flow Measurement	<input checked="" type="checkbox"/> Sludge Handling / Disposal	<input type="checkbox"/> Sanitary Sewer Overflow

Compliance Monitoring Summary

Inspection performed by Bryan B. Carter and Jason T. Benton.  
 Facility closed at time of inspection. No employees present at site. No operations occurring. Future operations uncertain.

EPA and State Representatives

	TDEC DWR / JCEFO / (423) 854-5456 & (423) 854-5432	<input type="text" value="8/10/2016"/>
Inspector's Signature	Agency / Office / Phone	Date
	TDEC DWR / JCEFO / (423) 854-5462	<input type="text" value="8/10/2016"/>
Manager's Signature	Agency / Office / Phone	Date

**ENVIRAGLASS (TN0081582)  
OUTFALL EFFLUENT OBSERVATIONS**

**DATE:** 8/2/2016

**COMMENTS:** Observations by BBC and/or JTB

OUTFALL NUMBER	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOATING SOLIDS	COLOR	OTHER
IMP 01A	No flow visible	from facility	boundary fence				Process wastewater internal monitoring point - to outfall 001
001	Outfall obscured by vegetation;						NCCW, SW, Process WW overflow, and IMP 01A - to SFHR
SW1	Outfall inaccessible;	AFG Stream below outfall:	steady, clear flow;	some solids in channel			Stormwater outfall to Madd Branch via AFG Stream
SW2	Outfall inaccessible;	AFG Stream below outfall:	steady, clear flow;	some solids in channel			Stormwater outfall to Madd Branch via AFG Stream