

## Caulk, Kim

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**From:** Caulk, Kim  
**Sent:** Tuesday, February 11, 2014 10:27 AM  
**To:** Rogers, Michael  
**Subject:** RE: WI0500657 EVO Breakthrough Notification

Thanks. We will place it in the file.

Kim T. Caulk, P.G.  
Phone: (919) 707-8350  
<http://portal.ncdenr.org/web/wm/sf/ihs/recprogram>

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**From:** Rogers, Michael  
**Sent:** Monday, February 10, 2014 1:50 PM  
**To:** Caulk, Kim  
**Subject:** FW: WI0500657 EVO Breakthrough Notification

As a courtesy, since you are the Incident Manager for the above project, I am also putting you in the loop on a daylighting incident for the above UIC permit.

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**From:** Rogers, Michael  
**Sent:** Monday, February 10, 2014 10:46 AM  
**To:** Smith, Danny  
**Subject:** FW: WI0500657 EVO Breakthrough Notification

I sent this to Rick Bolich and Eric Rice. Rick said to route it to you also for your review. It appears the spill was abated.

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**From:** Rogers, Michael  
**Sent:** Friday, February 07, 2014 6:05 PM  
**To:** Rice, Eric; Bolich, Rick  
**Subject:** FW: WI0500657 EVO Breakthrough Notification

I am forwarding this letter from Jody in regards to the daylighting incident for your review.

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**From:** Jody Overmyer [<mailto:jovermyer@solutions-ies.com>]  
**Sent:** Friday, January 31, 2014 11:22 AM  
**To:** Rogers, Michael  
**Cc:** Karen Souza ([ksouza\\_aesi@verizon.net](mailto:ksouza_aesi@verizon.net))  
**Subject:** WI0500657 EVO Breakthrough Notification

Hi Michael,

Per your request, please find attached the EVO breakthrough notification at the Eaton Selma site under UIC Permit WI0500657.

Best regards,  
Jody

Jody L. Overmyer, P.E. | Senior Engineer

## Solutions-IES, Inc.

Phone: 919.873.1060 ext. 163

Fax: 919.873.1074

Cell: 412.901.2934

[www.solutions-ies.com](http://www.solutions-ies.com)

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Please consider the environment before printing this note.

January 31, 2014

Mr. Michael Rogers  
NCDENR Division of Water Quality  
1636 Mail Service Center  
Raleigh, NC 27699-1636

**Re: EVO Breakthrough Notification, UIC Permit WI0500657  
Former Eaton Selma Facility (REC Program ID NONCD 0002853)  
1100 East Preston Street  
Selma, North Carolina, 27576  
Solutions-IES Project No. 2013.0014.EATN**

Dear Mr. Rogers:

Solutions-IES, Inc. (SIES), under contract with Eaton Corporation (Eaton), is providing notification to NCDENR that a breakthrough of emulsified vegetable oil (EVO) occurred during groundwater injection activities permitted under UIC Permit WI0500657. Further description of the breakthrough follows:

- SIES was performing the Phase 2 injection beginning Monday January 20, 2014. The Phase 2 injection scope of work included 60 injection wells, approximately 6,320 gallons of EOS XR EVO, and was to be completed in two weeks.
- At the completion of the first week of Phase 2 injection into 30 injection wells on Friday January 24, 2014, milky-looking water was observed to be coming from a storm sewer pipe that daylights into a drainage ditch on the northeast portion of the property. The drainage ditch “pools” along the west side of East Preston Street with overflow going to a single culvert that runs beneath East Preston Street into Bawdy Swamp Creek. The milky-looking water appeared to be contained in a “pool” area in the drainage ditch.
- Upon arrived to the site on Monday January 27, 2014, the field team observed milky-looking water in the culvert beneath East Preston Street and in Bawdy Swamp Creek on the east side of East Preston Street. Based on visual observations, the total amount of breakthrough fluid (diluted EVO) appeared to be in the range of 100 – 200 gallons. Comparing photos of the ditch with dilutions we ran in the office, the discharge water appears to contain EVO in the range .5% to 2.3%. Therefore, the total amount of EOS discharged to the surface is estimated to be on the order of 0.5 to 4.6 gallons.
- SIES coordinated the removal of approximately 1,100 gallons of water/milky-looking water from Bawdy Swamp Creek on the east side of East Preston Street, from the culvert beneath East Preston Street, and from the two “pools” from the drainage ditch on the west side of East Preston Street. Additionally, berms in the form of plywood were placed over the single culvert that runs under East Preston Street, and also the northern portion of the drainage ditch to prevent flow to double culverts running under East Preston Street.
- Once injection activities continue, SIES will reduce injection rates and the water chase volume in order to minimize further breakthrough of EVO into the drainage ditch. If diluted milky breakthrough water is observed, it will be collected and disposed of properly.

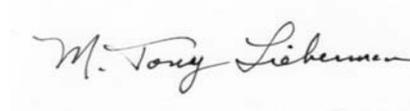
If you have any questions or need additional information, please feel free to contact me at (919) 873-1060 or [jovermyer@solutions-ies.com](mailto:jovermyer@solutions-ies.com).

Yours truly,

**Solutions-IES**



Jody Overmyer, P.E.  
Project Manager



M. Tony Lieberman, RSM  
Senior Consultant

Electronic cc: Ms. Karen Souza, Allegheny Environmental Services, Inc., [ksouza\\_aesi@verizon.net](mailto:ksouza_aesi@verizon.net)