

## Schmenk, Colin R - DNR

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**From:** Danko, Jeff <jdanko@tycoint.com>  
**Sent:** Friday, September 15, 2017 7:26 AM  
**To:** Neal, Conor  
**Cc:** DuFresne, Kristin I - DNR; Moen, Trevor J - DNR; Janeczek, Joseph; Mator, Richard; Suennen, Ryan  
**Subject:** RE: Bi-Weekly Status Report - Tyco Fire Products Pump Down Program

As far as we know at this time the brine RO issue has been resolved at least temporarily and the system (and testing) recommenced full operation yesterday. We are now recirculating the brine permeate back through the system so that no discharge to the river is occurring following water passage through the brine RO. We still have not determined what the issue actually was but the system was disassembled, visually assessed for damage or wear (the membranes were replaced a few months ago), and reassembled with no conclusive findings resulting in the issue.

We will commence shipments to Vickery next week on a part time basis. At this time we will have two shipments of water occurring on Mon-Wed-Fri.

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**From:** Neal, Conor [mailto:Neal.Conor@epa.gov]  
**Sent:** Thursday, September 14, 2017 4:46 PM  
**To:** Danko, Jeff  
**Cc:** DuFresne, Kristin I - DNR; Moen, Trevor J - DNR; Janeczek, Joseph; Mator, Richard; Suennen, Ryan  
**Subject:** RE: Bi-Weekly Status Report - Tyco Fire Products Pump Down Program

Jeff,

Can you please confirm with me when

- the issue brine reverse osmosis unit is resolved, and
- shipments to Vickery recommence

Also, can you please elaborate on the mechanical issue with the brine reverse osmosis unit that resulted in its shutdown? Did salt passage increase? Was flow reduced? What maintenance was necessary?

Thank you,  
Conor

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**From:** Danko, Jeff [mailto:jdanko@tycoint.com]  
**Sent:** Thursday, September 14, 2017 10:55 AM  
**To:** Neal, Conor <Neal.Conor@epa.gov>  
**Cc:** DuFresne, Kristin I - DNR <Kristin.DuFresne@wisconsin.gov>; Moen, Trevor J - DNR <Trevor.Moen@wisconsin.gov>; Janeczek, Joseph <jjaneczek@tyco.com>; Mator, Richard <rmator@tyco.com>; Suennen, Ryan <ryansuennen@tycoint.com>  
**Subject:** Bi-Weekly Status Report - Tyco Fire Products Pump Down Program

Conor:

Attached is the Pump Down Program bi-weekly status report for the period from August 31 through September 8, 2017 for the Tyco Fire Products LP site. If you have any questions, please call.

**Jeff Danko**  
Environmental Project Geologist  
262-951-6888

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September 14, 2017

Mr. Conor Neal  
Hydrogeologist  
Land & Chemicals Division  
US Environmental Protection Agency, Mail Code LU-9J  
77 West Jackson Blvd  
Chicago, IL 60604-3590

RE: Bi-weekly Summary Report for Pump Down Program  
Tyco Fire Products LP Site  
Marinette, WI

Dear Mr. Neal:

The information provided herein is a summary of activities conducted at the Tyco Fire Products LP (Tyco) site associated with the Pump Down Program for the former Salt Vault and 8<sup>th</sup> Street Slip areas. The Pump Down Program is required as part of the Administrative Order on Consent between Tyco and U.S. Environmental Protection Agency (USEPA). This summary report covers the period from August 29, 2017 through September 8, 2017.

### **Summary of Work during Reporting Period**

Work conducted during the reporting period included:

- Pumping from the extraction wells in the former Salt Vault (EW-10, EW-11, EW-13, and EW-14) and 8<sup>th</sup> Street Slip (EW-9) commenced on August 29, 2017. A total of approximately 45,000 gallons of water has been recovered from the pump down program area during the reporting period; however, the system is currently shut down because the temporary storage tanks are filled to capacity at this time.
- Manual water level readings at the designated monitoring points and extraction wells have been collected during the interim shut down period and since recommencement of pumping. The manual water level readings and corrected elevations table is currently being updated with the new survey data and associated water correction factor. A copy of the updated table will be forwarded once it is completed. Testing of the groundwater treatment system commenced on August 31, 2017. A total of approximately 11,000 gallons of water has been transferred to

the groundwater treatment system area as part of the planned testing program. The system testing temporarily ceased due to a mechanical issue with the brine (secondary) reverse osmosis unit. System testing will recommence once the issue is corrected.

- Vickery notified Endpoint Corporation (Tyco's Pump Down Program contractor) that repairs have been completed to the injection well and that water recovered during the pump down program may again be disposed at the facility. Endpoint is coordinating with the trucking contractor to commence disposal activities.
- A summary of pumping and disposal operations for 2017 is provided in Table 1.

Table 1  
Summary of Pump Down Operations (through September 8, 2017)

	Gallons Pumped	Gallons Transferred to GWTS	Gallons Transported for Off Site Disposal
This Period	~45,000	~11,000	0
Project To Date	~45,000	~11,000	0

All quantities are estimated

#### **Issues Encounter during Reporting Period**

The groundwater treatment system encountered a mechanical issue with the brine reverse osmosis unit resulting in a shutdown of the system. It is anticipated that testing will recommence during the week of September 11, 2017.

Shipments to Vickery have not recommenced this season due to the mechanical/maintenance issues at the Vickery facility. As a result, no shipments for disposal have occurred to date. The temporary storage tanks located in the pump down area are filled to capacity; therefore, pumping in the area has temporarily ceased.

#### **Issues to Be Resolved Next Reporting Period**

The mechanical issues with the brine reverse osmosis unit should be resolved the week of September 11, 2017. It is also anticipated that shipments to Vickery will recommence next week.

### **Anticipated Work Next Reporting Period**

Weekly manual water levels will be collected from the designated monitoring wells. Groundwater elevation data will be provided in the bi-weekly summary reports during the current pump down period.

If you have any questions regarding this report, please contact Jeff Danko at 262-951-6888 or [jdanko@tycoint.com](mailto:jdanko@tycoint.com).

Sincerely,



Jeff Danko  
Environmental Project Geologist

#### **Attachments:**

Table 1 –Pump Down Program Groundwater Elevation Monitoring

cc: Kristin DuFresne – WDNR  
Trevor Moen - WDNR  
Joseph Janeczek – Johnson Controls  
Richard Mator – Johnson Controls  
Ryan Suennen – Tyco Fire Protection Products