

## **Monthly report summary for May, June and July 2024**

### **CTS**

PW4 operating at reduced flows and downtime as a result of a coupling failure on the UA effluent pump. PW4 was still down in June and July and issues is believed to be the pump and motor or decreased well yields. Lanxess is scheduling inspection of pump and motor based upon contractor availability.

W3R was shut down in October due to flow deviation caused by instrumentation issues. Problem was determined to be a defective input/output card on the Delta V system. Erratic flows and several hi-hi flow alarms have occurred. Well was shut down. Intermittent flow communication identified as cause. Communication cables between W4 and W3R were determined to be compromised at multiple locations on Industrial Drive. Options were considered and wireless equipment was ordered and installed. Well was restarted on May 24. Well was shut down again due to communication issues. Lanxess replaced the cellular components which resolved the issue.

Lanxess is in the process of having the new PW6 well connected to the existing treatment system in order to bring the well online. Excavation for the pit less adaptor, effluent pipeline, communication and power lines for new well to begin in August subject to contractor availability.

W5A and W5B pumping rate was decreased due to downtime related to the Rayox PLC issues and W\$ system wireless communications issues. They were intermittently shut down between May 22 and June. Replacement parts have been ordered. W5A was shut down from June 16 to June 15 as the well was not able to maintain pumping rate due to low water levels. Lanxess is investigating next steps. The well was rehabilitated in May 2023 and the motor and pump were replaced in July 2023.

W9 continues to operate with reduced pumping rates. Lanxess believes issue to be with pump/motor and/or decreased well efficiency. Inspection and possible video inspection was expected in April but has been rescheduled to July 2024 based upon contractor availability.

E7 was down from June 22 to June 28 due to communication issues. Components replaced and it was restarted on June 28 at target rate. A power outage and leak in the Rayox trains affected E7 in July. Repairs made and well was restarted.

### **Toxicity**

No acute toxicity found but resampling of GE groundwater effluent was requested as results were inconclusive for water fleas. Resampling is scheduled for July. No issues noted with samples taken in July.

### **Quarterly Receiver Water Quality Data**

Except for Formaldehyde detected in samples taken on July 22, all other parameters were either non detect or were at levels less than the PWQOs, IPWQOs and the ECA. Formaldehyde was detected in samples upstream and downstream.

### **Loss of Containment**

There were several periods of loss of containment in May, June and July. Increases noted in surface water elevations May 2 as a result of increase flowrates from the Woolwich Dam. Decreases in elevation noted until May 23. On May 28 there was a significant rainfall event and elevations decreased

gradually for the remainder of the month. Elevation decreased until June 20 when another significant rainfall event occurred and again on June 21 when flows were increased from the dam. There was a decrease until July 10 when another significant rainfall event and increases to dam flowrates occurred.

Containment was restored at UOW+S10 USW+500 in May, on June 18 and July 31.

As per the ECA surface water samples were collected during the periods of loss of containment. No adverse impacts were noted.