

From: Matthew Turner
To: [Sager, John E - DNR](#)
Cc: [David Beattie](#)
Subject: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]Refinery update
Date: Monday, September 24, 2018 4:31:45 PM
Attachments: [Surface Water Sample Analytical Results Memo 092418 \(final\).pdf](#)

John,

Below is a summary of the ongoing efforts on the site. If you have any questions on what I have included below please let me know.

Water:

- Effluent discharge from the WWTP/GAC system continues to be non-detect for PFOA/PFOS
- We have gone through two carbon changeouts (1 in each system) and are currently running on both systems. Currently discharging at 240gpm.
- Sampling in Newton Creek for PFAS is still ongoing every other week and the results are attached

Air:

- As of 9/23/18 we have 12 fixed monitors in place around the process areas/warm zone collecting data. Additional monitors have been used to support efforts as needed.
- Most of the units have been de-inventoried with only portions of the FCCU, Gas Con and South Crude unit remaining
- Asbestos removal and monitoring continues

Wildlife:

- The laser network is still up and running
- An oiled robin was captured on 8/13/18 and brought to Wildwoods rehab center in Duluth but it did not survive
- **Updated Overall Event Summary:**

Deceased Wildlife: 2 rabbits, 1 weasel, 1 fawn, 3 grackles, 4 robins, 1 starling, 1 American bittern, 2 geese, 1 redwing blackbird, 4 unidentified birds, 2 frogs

Wildlife released after cleaning: 5 geese, 4 goslings, 3 mallards, 3 Killdeer (1 adult and 2 chicks), 1 robin, 1 water vole

Wildlife Currently in Captivity: None

Relocated: 30 adult geese, 63 goslings

Product Recovery/Removal:

- Asphalt removal is still ongoing in the areas where it was released but the majority has been recovered for disposal off-site
- Currently working on asphalt removal at the southern portion of the asphalt tank farm. By surface area, estimated that 99% of the asphalt released to the process area and 75%

of the asphalt released to the asphalt tank farm has been recovered and disposed

- Approximately 4689 tons of asphalt have been recovered and disposed of as of 9/21/18

Thanks,

Matt Turner

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