

PCS 84069

AltEn Field Observations.

February 27, 2021

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NDEE

Observations started at approximately 1230 and ended at 1400.

Site 2, west side of county road, facing west. Approximately 95 percent frozen with some free water over surface of ice and some ice-free areas along bank. One sample collected here for HHS Laboratory analysis with an additional pesticide sample. Water temperature: 0.2 degrees C, Dissolved oxygen: 5.6 mg/l, pH: 8.0 St.Units, Conductivity: 2,134 Umhos/cm, Turbidity: 91.7 NTU's, Dissolved oxygen (percent saturation) 40 percent. Air temperature: 45 degrees F, clear, calm.



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Site 2 facing east. 100 % ice and snow-covered.



Site 2, west side of the county road facing east. Sample site in the foreground (bottom-middle of picture).





Site 3, west side of Hwy 66, facing west. No ice and pooled above culvert. One sample collected here for HHS Laboratory analysis with an additional pesticide sample. Water temperature: 1.0 degrees C, Dissolved oxygen: 1.5 mg/l, pH: 8.0 St.Units, Conductivity: 1,699 Umhos/cm, Turbidity: 98.5 NTU's, Dissolved oxygen (percent saturation) 10 percent. Air temperature: 45 degrees F, clear, calm.



Site 3, west side of Hwy 66, facing northeast. Note water level in comparison to culvert. Water can be heard leaking from the behind the sandbags.





Site 3, east side of Hwy 66, facing east. 100% frozen and snow-covered.



Site 3, east side of Hwy 66, facing north/northeast. One sample collected here for HHS Laboratory analysis with an additional pesticide sample. Water temperature: 0.9 degrees C, Dissolved oxygen: 0.5 mg/l, pH: 7.7 St.Units, Conductivity: 8,950 Umhos/cm, Turbidity: 384 NTU's, Dissolved oxygen (percent saturation) 3 percent. Air temperature: 45 degrees F, clear, calm. Ice is 3-4 inches thick. Ice chisel (black handle, middle of picture) indicates sample location.





Between Sites 3 and 4 facing south from Hwy 66. Much of stream has been dredged. Tractor is pulling trailer with collapsible hose to be used to pump contents of stream.



Same site as above but facing north. Pump being used to pump some of stream's contents back towards the north/northeast to the AltEn facility. Water color is very dark.





Close-up of previous photo.



Facing north/northeast on Avenue H, approximately 1/3 mile east of Road 8. Between previous picture site and Site 4. Water has an orange, or tannic stain appearance to it. Clean Harbors truck was at this location. Reddish/orange tube, lower part of picture, going through culvert from the south.





Site 4 facing west. Approximately 80 percent frozen with water flowing over ice. Dark-colored water.



Site 4 facing east. Stream has some open water with much subsurface ice.





Two trucks from Clean Harbors ready to pump water from the stream at Site 4 however, at the time of this picture, the operators were waiting for instructions as the lagoons at the AltEn facility were full.



Site 5, facing northwest. Tractor and PTO set up at this location by Lagoon Pumping and Excavation Company. Area to the west of this site is pooled up.





Site 5 facing east.



Site 5 facing south/southeast. Note expanded tubing which goes to the AltEn facility.





Unnamed tributary to Silver Creek facing north from Hwy 66 approximately 1/10 mile west of Road 10. One sample collected here for HHS Laboratory analysis with an additional pesticide sample. Sample site is on the west side of the stream approximately 20 feet upstream from the outfall structure. Air temperature was 45 degrees F, 50% cloud cover and an east/southeast wind at 15 to 20 mph. I met James Koehler, Environmental Technician with Terracon, at this location.

