

PCS

84069

AltEn: Samples at Pond below Site 2,
March 26, 2021
Dave Bubb, NDEE

On March 26, 2021 I collected water samples from a pond, owned by Stan Keiser, approximately 0.5 miles below, or east of, Site 2 on the unnamed tributary to Clear Creek.

During this visit the air temperature was 40 °F, hazy and an east/southeast wind at 5mph. There was a distinct livestock waste odor coming from the pond. A grab sample was collected near the outfall located approximately at the center of the dam. Parameters selected included: Nitrate/Nitrite as N, Total Suspended Solids, Total Kjeldahl Nitrogen, Total Phosphate as P, Ammonia as N and Chloride. These samples were sent to the Nebraska HHS Laboratory. A grab sample was collected for pesticide analysis and was sent to South Dakota Agricultural Laboratories.

Following sample collection, the samples were placed in a cooler with ice and transported back to the NDEE laboratory; at the laboratory they were placed in a secure refrigerator pending shipment to the laboratory.

On the north side of the dam facing south along the dam.



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On the north side of the dam facing west/northwest



Photo is facing south/southeast and is of the outfall structure at approximately the middle of the dam.



Photo taken at approximate center of dam just to the north of the outfall structure and is of the Hydrolab water quality instrument deployed to determine field parameters.



Facing south at approximate center of dam. Photo is of the green bucket which contains the Hydrolab water quality instrument and is at the site where field parameters and water samples were collected. The outfall structure is to the left of the bucket. Water temperature: 8.4 degrees C, Dissolved oxygen: 0.4 mg/l, pH: 6.7 St.Units, Conductivity: 483 Umhos/cm, Turbidity: 36.1 NTU's, Dissolved oxygen (percent saturation) 2.6 percent. Collections time was 10:20.



Facing east from the east side of the dam. Photo shows discharge below the dam. Water contains foam.



Below dam and facing west towards dam. Center of photo is discharge from pond. Considerable foam in water below discharge point.



Close-up of foam from discharge below dam. Discharge point is on the right side of the photo.



Foam near discharge below dam. Discharge point is on the left side of the photo.

