

TOWN OF ANIWA ARSENIC DISPOSAL SITE GROUNDWATER MONITORING PLAN
FOR THE YEARS 2016 THRU 2018

The site is located in northwestern Wisconsin in Shawano County on the north side of Marsh Rd. ½ mile west of US Highway 45 on approx. 4.35 acres. It is a former arsenic pesticide storage and disposal facility to control grasshoppers in potato fields during the droughts in the 1930-1940s. Rusty steel barrels and wood barrels were buried in a shallow pit next to a small wood storage shed in the late 1970s. In 1984, the Wisconsin DNR (WDNR) conducted a limited removal of rusted steel and wood barrels and arsenic contaminated soils. The contaminants were transported to a hazardous waste landfill in the state of Alabama.

Groundwater and soil monitoring done by the Town of Aniwa in the years 1989-2013 indicated groundwater dissolved arsenic levels were increasing especially during high water events in the monitoring wells found at the disposal site. Levels of dissolved arsenic were extremely high in monitoring wells next to the pit and down gradient to the southeast. The Town of Aniwa did not have the resources to clean up the site and applied to the Wisconsin DNR for remediation and closure assistance. Closure was denied by the WDNR. WDNR and the Town of Aniwa requested assistance from the Environmental Protection Agency (EPA) Emergency Response Branch in September 2014. From June 1-19, 2015 the EPA supervised/assisted the removal of 1,019 tons of pretreated arsenic contaminated soil to an EPA non-hazardous approved landfill in central Wisconsin.

A condition of the removal was the Town of Aniwa develop a groundwater monitoring plan for the years 2016-2018 for the 7 monitoring wells currently found at the site (B-10, B-11, B-12, B-13R, B-19R, B-20 and B-21) and the TIMM private drinking water well 300 ft. northwest of the burial pit. Monitoring done in 2016 indicated the wells of most concern were B-12, B-13R and B-21 because of arsenic levels above 10 ug/L As. The TIMM private well was supplied with a arsenic treatment unit and is also monitored to make sure it is working properly. All of the monitoring wells were sampled for the year 2016 including the TIMM private well on 7-14-2016. Wells were sampled for dissolved arsenic, field filtered and acidified the HNO₃. Additionally all wells were monitored for depth to water, field pH, specific conductance, field temperature and the amount of water bailed from the wells. The bailings are put in a barrel in a secured small shed on site and will be disposed of properly. The samples were analyzed by Northern Lake Service, Inc., Crandon, WI., a WDNR and EPA certified water and wastewater lab.

For the years 2017-2018 the wells of major concern are wells B-12, B-13R and B-21 showing the highest dissolved arsenic levels. The sampling will be done in late May or early June after spring runoff when water levels are highest. Additionally, in 2017 wells B-10 and B-20 will be sampled as well as the TIMM well. In the year 2018, wells B-12, B-13R and B-21 as well as B-11 and B-19R will be sampled as well as the TIMM well to monitor the arsenic treatment unit performance. Results will be sent to
Lauren Beggs, WDNR Northeast region hydrogeologist,
Remediation and Redevelopment Division.

DANIEL LEX: *Daniel Lex*

TOWN CHAIRMAN, TOWN OF ANIWA

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