CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

November 16, 2020

Wisconsin Department of Natural Resources
Attn: Gwen Saliares
625 East County Road Y
Oshkosh, WI 54901

Subject:

Aniwa Arsenic Site
Marsh Road near Chicago and NW Right of Way
Town of Aniwa, Shawano County, WI 54414
WDNR BRRTS #02-59-000198

Dear Ms. Saliares:

This letter and information will serve as an update report for the above referenced site and a proposed work plan to closure. The site location is shown on Figure 1.

Background

The site is located in a remote rural area, surrounded by woodland, agriculture, and scattered rural residential properties. A site overview is shown on Figure 2a. The site itself is primarily wooded and fallow grass. Arsenic contamination at the site was discovered in 1983 when soil sampling was conducted prior to a sale of the property to a private party. The site has been owned by the Town of Aniwa since the 1930s and was previously used to store pesticides which were distributed to local counties and municipalities to control grasshopper infestations.

The source of the contamination is leftover sodium arsenite pesticide, which was stored in a shed on site since the 1950s. Drums of leftover pesticide were buried on site in 1975. Drums of leftover arsenic pesticide were buried on site in 1975 in a "shallow pit" and were subsequently excavated, as well as the surrounding contaminated soil. The excavation is assumed to have been backfilled with pit run sand, and the area was capped with two (2) feet of clay in 1984. Following notification in 1980, the initial groundwater investigation report was submitted in 1983. Periodic groundwater sampling was conducted by Warren Hohn Soil Testing, and additional update reports were submitted in 2002, 2003, 2008, 2011, 2012, and 2013. Historical soil and groundwater data is summarized on Tables 1a-1d and 2a-2k. Soil boring and monitoring well locations are shown on Figure 2b.

Data collected by Warren Hohn Soil Testing was compiled, and a Closure Report was prepared by REI in 2014. Based on review of the Closure Report, the WDNR, in cooperation with the EPA retained TetraTech to conduct additional source removal in June 2015 which included excavation of 1,019 tons of contaminated soil in the area shown on Figure 3. Soil was excavated to an agreed upon 20 mg/kg site specific soil standard. Monitoring wells B13, B13a, B18, and B19 were

overexcavated/abandoned during the source removal. Monitoring wells MW13 and MW19 were replaced with B13r and B19r. A summary report was submitted by TetraTech on November 24, 2015. The area of excavation is shown on Figure 3. Soil data collected by TetraTech is summarized on Tables 1e and 1f.

Additional Groundwater Sampling

TetraTech collected groundwater samples from the site prior to the excavation, on June 2, 2016, and following excavation, on September 12, 2015. After completion of the TetraTech scope, groundwater sampling was conducted by Warren Hohn Soil Testing on July 14, July 10, and July 29, 2016, April 8, April 22, May 30, June 24, August 28, October 17, and October 28, 2017, March 13, April 14, June 10, July 22, and August 31, 2018, June 10, and July 18, 2019, May 15, June 11, and July 6, 2020. Results were submitted electronically on November 29, 2016, January 12 and August 18, 2017, February 9, and October 1, 2018, April 19, and August 20, 2019, May 15, June 11, and July 6, 2020. Groundwater analytical data is summarized on Tables 2a-2k. The complete analytical reports are in Attachment A.

Additional Soil Sampling

Soil sampling during the TetraTech remedial phase of the project left the area of soil contamination exceeding the Background Threshold Value (BTV) of 8 mg/kg for arsenic undefined, specifically in the top four (4) feet of soil. Twelve (12) additional hand auger borings were installed by Warren Hohn Soil Testing on June 18, 2019. Samples were collected from 0-2 feet below land surface (bls). The results of sampling defined a portion of the area of contamination. A work plan detailing proposed additional soil and groundwater sampling was submitted by Warren Hohn Soil Testing on April 22, 2020. The WDNR project manager provided commentary and approved the scope.

Concurrent with groundwater sampling, an additional twelve (12) hand auger borings were installed around the perimeter of the soil plume on June 11, 2020. All twelve (12) samples were either non-detect or well below the BTV for arsenic. The results of 2019 and 2020 soil sampling are summarized on Table 1g. The area of contamination exceeding the BTV in the top four (4) feet is shown on Figure 3. The complete lab reports are in Attachment B.

Conclusions and Recommendations

The groundwater flow direction has remained consistent to the southeast as depicted on Figures 4a and 4b for sampling events in 2019 and 2020. Monitoring wells B12, and B13r consistently exceed the NR 140 Enforcement Standard (ES) for arsenic, while B21 at the leading edge of the plume, has fluctuated between the Preventive Action Limit (PAL) and ES since excavation of the source. Source wells B12 and B13r have shown a distinct correlation between groundwater elevation and contaminant concentration throughout the history of the site. Historical groundwater elevations are shown on Table 3. Contaminant concentrations have shown a decreasing trend despite recent groundwater elevations which have been some of the highest recorded. The relationship between groundwater elevation and contaminant concentration at B12, B13r, and B21 is shown on Figures 5a-5c.

Soil contamination remains at the site in excess of the BTV for arsenic in the top four (4) feet in areas of shallow excavation, and beyond the excavation footprint. These areas have been defined by additional soil borings conducted in 2019 and 2020. TetraTech confirmation samples SS05, SS-06, and SS-11 were collected at the water table and are not representative of vadose zone contamination. The excavated area was backfilled with clay, however, the perimeter of the excavation was excavated to depths of a foot or less. REI recommends additional clay capping of the perimeter of the excavation as defined by hand auger borings installed in 2020.

A treatment system has been installed on the Timm well, immediately east of the site. Sampling of the well post treatment has been slightly above the PAL. Maintenance of the treatment system post closure will require an agreement with the Town of Aniwa. Groundwater contamination has demonstrated a decreasing trend and no additional groundwater sampling of the monitoring well network is recommended.

As detailed above, it appears that closure of the site is achievable through additional capping of the area of arsenic impacted soil. Residual soil and groundwater contamination will be placed on the GIS registry with a cap maintenance plan for the clay cover. If the Department concurs, the Town will solicit bids for capping of the area during the 2021 construction season. Capping will be documented and an updated Closure Report/Continuing Obligations package will be submitted upon completion.

Thank you for your assistance with this project. Please contact me at (715) 675-9784 or Adelforge@REIengineering.com with any questions or comments.

Sincerely,
REI Engineering, Inc.

Andrew R. Delforge, P.G.
Senior Hydrogeologist

Enclosure A/S

CC: Dan Lex, Town of Aniwa, N10485 Cherry Road, Aniwa, WI 54414
Warren Hohn (Electronic Only)

TABLE 1a
1983 SOIL ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			Date-->	***9/12/83***	***9/12/83***	***9/12/83***	***9/12/83***	***9/13/83***	***9/13/83***	***9/13/83***	***9/13/83***	***9/13/83***	***9/13/83***	***9/13/83***	***9/13/83***
			Boring-->	***B10***				***B11***				***B12***			
			Sample Depth--(Feet)>	*0*	*5*	*7.5*	*10*	*0*	*5*	*10*	*13*	*0*	*5*	*10*	*12.5*
Metals (mg/kg)	BTV	NTEDC	GW												
Arsenic*	8	0.39	0.292	2.45	3.7	1.84	1.58	4.06	3.33	1.73	1.26	2.63	2.92	2.7	2.72
Lead	NA	400	13.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	3,130	91.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

			Date-->	***9/14/83***	***9/14/83***	***9/14/83***	***9/14/83***	***9/14/83***	***9/13/83***	***9/13/83***	***9/13/83***	***9/12/83***	***9/12/83***	***9/12/83***	***9/12/83***
			Boring-->	***B13***					***B14***			***B15***			
			Sample Depth--(Feet)>	*0*	*5*	*8*	*10*	*12.5*	*0.0*	*5*	*10*	*0*	*5*	*10*	*12.5*
Metals (mg/kg)	BTV	NTEDC	GW												
Arsenic*	8	0.39	0.292	**39,800**	4.14	**731**	**52.5**	**18.8**	**25.30**	3.34	**160**	7.03	2.40	**69.6**	**50.8**
Lead	NA	400	13.5	111	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	3,130	91.6	41.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

			Date-->	***9/13/83***	***9/13/83***	***9/13/83***	***9/12/83***	***9/12/83***	***9/12/83***	***9/12/83***
			Boring-->	***B16***			***B17***			
			Sample Depth--(Feet)>	***0***	***5***	***10***	***0***	***5***	***10***	***12.5***
Metals (mg/kg)	BTV	NTEDC	GW							
Arsenic*	8	0.39	0.292	**8.90**	**8.88**	2.04	2.52	3.21	2.65	1.92
Lead	NA	400	13.5	NA	NA	NA	NA	NA	NA	NA
Copper	NA	3,130	91.6	NA	NA	NA	NA	NA	NA	NA

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

GW RCL Exceedances are outlined in bold (lead) Lead

BTV - Based on a recent study by the USGS, and agreement with the WDNR, DATCP, and DHS, 8 mg/kg is the established "background" level of arsenic in Wisconsin.
Detections above 8 mg/kg are considered "above background threshold value"

Detections above BTV are bold **Bold**

< - Concentration below listed laboratory detection limit

NS - No Standard

j - Estimated Value between detection limit and quantification limit

TABLE 1b
1990 SURFICIAL SOIL ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			Date-->	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***
			Boring-->	***S-0***	***S-1***	***S-2***	***S-3***	***S-4***	***S-5***	***S-6***	***S-7***	***S-8***	***S-9***	***S-10***	***S-11***	***S-12***
			Sample Depth--(Feet)>	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***
Metals (mg/kg)	BTV	NTEDC	GW													
Arsenic*	8	0.39	0.292	**278**	**318**	**71**	**588**	**362**	**367**	**62/69****	**73/75****	**1,328**	**589**	**111**	**65**	**41**
Lead	NA	400	13.5	70	74	23	143	84	87	16/19**	22/26**	115	122	23	15	12

			Date-->	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***	***6/6/90***
			Boring-->	***S-13***	***S-14***	***S-15***	***S-16***	***S-17***	***S-18***	***S-19***	***S-20***	***S-21***	***S-22***	***S-23***	***S-24***	
			Sample Depth--(Feet)>	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	***0.5-1.5***	
Metals (mg/kg)	BTV	NTEDC	GW													
Arsenic*	8	0.39	0.292	**78**	**60**	**67**	**491**	**279**	**71**	**58**	**611**	**330**	**51**	**75**	**68**	
Lead	NA	400	13.5	28	17	21	116	64	22	17	145	77	17	22	23	

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

GW RCL Exceedances are outlined in bold (lead) **Lead**

BTV - Based on a recent study by the USGS, and agreement with the WDNR, DATCP, and DHS, 8 mg/kg is the established "background" level of arsenic in Wisconsin. Detections above 8 mg/kg are considered "above background threshold value"

Detections above BTV are bold **Bold**

< - Concentration below listed laboratory detection limit

** Split Samples analyzed as composite and core

NS - No Standard

j - Estimated Value between detection limit and quantification limit

TABLE 1c
2007 SOIL ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B1***										
			Sample Depth--(Feet)>	*1*	*2*	*4*	*6*	*7-8*	*8-9*	*10-12*	*12-16*	*16-18*	*18-19*	*19.5-20*
Metals (mg/kg)	BTV	NTEDC	GW											
Arsenic*	8	0.39	0.292	4.25	0	5.35	2.66	0.43	1.35	1.05	1.55	0.95	0.48	0
Lead	NA	400	13.5	4.8	2.73	2.49	3.78	1.64	2.8	1.43	2.16	2.1	1.68	0.86

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B2***												
			Sample Depth--(Feet)>	*1-2*	*3-4*	*4-6*	*7*	*8*	*8-10*	*10-12*	*12-14*	*15*	*16*	*17-18*	*19-20*	*22*
Metals (mg/kg)	BTV	NTEDC	GW													
Arsenic*	8	0.39	0.292	1.18	**281**	**232**	1.84	2.06	1.11	0.91	1.9	0	1.08	0.4	0	0
Lead	NA	400	13.5	1.42	3.2	4.75	0.94	2.29	3.32	2.07	2.82	2.03	1.13	1.95	1.79	0.9

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B3***									
			Sample Depth--(Feet)>	1-2	3-4	4-5	8	9	12	13-14	16	17-18	20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	10.3	6.25	4.03	0.75	**9.32**	**87.1**	**117**	**465**	**296**	**32**
Lead	NA	400	13.5	6.8	3.25	5.72	2	2.06	1.35	1.05	1.67	0	1.53

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B4***												
			Sample Depth--(Feet)>	0-1	3-4	5-6	8	10	12	12-13	14	15-16	16-17	18-19	20	
Metals (mg/kg)	BTV	NTEDC	GW													
Arsenic*	8	0.39	0.292	**25.3**	4.7	2.38	0	0.85	0	1.58	1.03	0	0	0	0	
Lead	NA	400	13.5	7.62	5.98	4.82	4.36	2.28	1.77	1.64	2.35	2.07	1.42	1.29	1.28	

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B5***							
			Sample Depth--(Feet)>	1	4	6-8	10-12	12-14	14-16	17-18	20
Metals (mg/kg)	BTV	NTEDC	GW								
Arsenic*	8	0.39	0.292	7.62	0.63	2.81	1.04	0	0	0	0.37
Lead	NA	400	13.5	8.42	1.62	7.67	1.3	1.93	0.99	1.73	1.77

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B6***									
			Sample Depth--(Feet)>	0-1.5	3-4	5	7-8	8-10	11-12	13-14	14-15	17-18	19.5-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	2.37	2.87	1.73	1.96	1.68	1.9	0.75	0	0	0
Lead	NA	400	13.5	4.88	4.82	3.58	3.3	4.98	3.84	1.88	1.33	1.01	1.19

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B7***									
			Sample Depth--(Feet)>	2	3-4	5	7	8-9	11	12-14	14-16	16-17	18-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	2.1	1.39	1.5	1.51	1.35	0	0	0.56	0	0
Lead	NA	400	13.5	4.66	3.22	3.65	2.91	2.54	1.44	2.24	1.99	1.62	0.76

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***07-B8***			
			Sample Depth--(Feet)>	0-1	2-4	4-6	6-8
Metals (mg/kg)	BTV	NTEDC	GW				
Arsenic*	8	0.39	0.292	2.1	1.39	1.5	1.51
Lead	NA	400	13.5	4.66	3.22	3.65	2.91

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)
GW - RCL Protective of Groundwater Quality
GW RCL Exceedances are outlined in bold (lead) Lead
BTV - Based on a recent study by the USGS, and agreement with the WDNR, DATCP, and DHS, 8 mg/kg is the established "background" level of arsenic in Wisconsin.
Detections above 8 mg/kg are considered "above background threshold value"
Detections above BTV are bold **Bold**
< - Concentration below listed laboratory detection limit
NS - No Standard
j - Estimated Value between detection limit and quantification limit

TABLE 1d
2012 SOIL ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			Date-->	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***
			Boring-->	***12-B1***									
			Sample Depth--(Feet)>	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	3.7	**59.8**	**36.2**	**53.8**	**54.5**	**65.4**	**36.0**	1.3	**17.4**	0.91
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

			Date-->	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***
			Boring-->	***12-B2***									
			Sample Depth--(Feet)>	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	7.9	**95.6**	2.9	2.0	2.7	**36.9**	**22.5**	**13.7**	**15.2**	**20.6**
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

			Date-->	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***
			Boring-->	***12-B3***									
			Sample Depth--(Feet)>	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	3.9	**8,360**	2.9	1.6	2.2	**10.7**	**38.6**	7.6	**32.0**	**12.8**
TCLP Arsenic (mg/L)				NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA

			Date-->	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***
			Boring-->	***12-B4***									
			Sample Depth--(Feet)>	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	3.1	2.4	2.6	1.8	2.4	5.1	**26.2**	**26.7**	**10.4**	**37.5**
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

			Date-->	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***
			Boring-->	***12-B5***									
			Sample Depth--(Feet)>	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	2.9	2.0	1.4	1.6	2.4	**22.0**	**22.3**	**24.3**	2.2	0.8
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	23.7	NA	NA	NA	NA

			Date-->	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***	***11/29/12***
			Boring-->	***12-B6***									
			Sample Depth--(Feet)>	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Metals (mg/kg)	BTV	NTEDC	GW										
Arsenic*	8	0.39	0.292	**1,410**	**47.7**	**110**	7.2	**256**	1.5	**74.3**	1.7	**68.1**	1.6
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	1.3	NA	NA	NA	NA

			Date-->	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***	***6/15/07***
			Boring-->	***12-B3a***								
			Sample Depth--(Feet)>	00-0.5	0.5-1	1-1.5	1.5-2	2-2.5	2.5-3	3-3.5	3.5-4.25	4.25-5
Metals (mg/kg)	BTV	NTEDC	GW									
Arsenic*	8	0.39	0.292	**529**	**13.1**	3.7	**10.3**	6.4	2.9	1.8	1.3	1.4
TCLP Arsenic (mg/L)				0.39	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

BTV - Based on a recent study by the USGS, and agreement with the WDNR, DATCP, and DHS, 8 mg/kg is the established "background" level of arsenic in Wisconsin. Detections above 8 mg/kg are considered "above background threshold value"

Detections above BTV are bold **Bold**

< - Concentration below listed laboratory detection limit

NS - No Standard

j - Estimated Value between detection limit and quantification limit

TABLE 1e
POST EXCAVATION CONFIRMATION SOIL SAMPLE RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

Date--->				***6/3/15***	***6/5/15***	***6/5/15***	***6/5/15***	***6/5/15***	***6/10/15***	***6/10/15***	***6/10/15***	***6/15/15***	***6/17/15***	***6/16/15***	***6/17/15***	***6/16/15***	***9/21/15***	***6/18/15***	***6/18/15***	***6/18/15***	***6/2/15***
Sample--->				***SS-01-0615***	***SS-02-0615***	***SS-03-0615***	***SS-50-0615***	***SS-04-0615***	***SS-05-0615***	***SS-51-0615***	***SS-06-0615***	***SS-07-0615***	***SS-08-0615***	***SS-09-0615***	***SS-10-0615***	***SS-11-0615***	***SS-11-0615***	***SS-12-0615***	***SS-13-0615***	***SS-14-0615***	***SS-15-0615***
Sample Depth--(Feet)>				1	2	1	Duplicate	1	9	Duplicate	9	9	2	1	1	10	10	2	2	2	Background
Sampler--->				TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech
Saturated/Unsaturated--->				Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Metals (mg/kg)	BTV	NTEDC	GW																		
Arsenic*	8	0.667	0.584	**8.7**	**12**	**19**	**19**	**11**	**50**	**45**	**49**	**18**	4.1	**12**	5.8	**2,500**	**340j**	**13**	7	4.8	3
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

BTV - Based on a recent study by the USGS, and agreement with the WDNR, DATCP, and DHS, 8 mg/kg is the established "background" level of arsenic in Wisconsin.
Detections above 8 mg/kg are considered "above background threshold value"

Detections above BTV are bold **Bold**

< - Concentration below listed laboratory detection limit

NS - No Standard

j - Estimated Value between detection limit and quantification limit

TABLE 1f
WETLAND SEDIMENT SAMPLING RESUTLS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			Date-->	***6/2/15***	***9/22/15***	***6/2/15***	***9/22/15***	***6/2/15***
			Sample-->	***SED-01-0615***	***SED-01-0915***	***SED-02-0615***	***SED-01-0915***	***SED-03-0615***
			Sample Depth--(Feet)>	Surface	Surface	Surface	Surface	Surface
			Sampler-->	TetraTech	TetraTech	TetraTech	TetraTech	TetraTech
			Saturated/Unsaturated-->	Saturated	Saturated	Saturated	Saturated	Saturated
Metals (mg/kg)	BTV	NTEDC	GW					
Arsenic*	8	0.667	0.584	<2.4	**22j**	<2.8	4.2j	<3.3
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

BTV - Based on a recent study by the USGS, and agreement with the WDNR, DATCP, and DHS, 8 mg/kg is the established "background" level of arsenic in Wisconsin. Detections above 8 mg/kg are considered "above background threshold value"

Detections above BTV are bold **Bold**

< - Concentration below listed laboratory detection limit

NS - No Standard

j - Estimated Value between detection limit and quantification limit

TABLE 1g
POST EXCAVATION PERIMETER BORINGS SOIL SAMPLE RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			Date-->	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***	***6/18/19***
			Sample-->	***B-1-19***	***B-2-19***	***B-3-19***	***B-4-19***	***B-5-19***	***B-6-19***	***B-7-19***	***B-8-19***	***B-9-19***	***B-10-19***	***B-11-19***	***B-12-19***
			Sample Depth--(Feet)>	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
			Sampler-->	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn
			Saturated/Unsaturated-->	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Metals (mg/kg)	BTV	NTEDC	GW												
Arsenic*	8	0.667	0.584	**12.2**	<1.4	1.6j	**38.1**	1.21j	**27.5**	**31.6**	<1.2	**30.6**	2.3j	2.5j	1.9j
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

			Date-->	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***	***6/11/20***
			Sample-->	***2020-B-13***	***2020-B-14***	***2020-B-15***	***2020-B-16***	***2020-B-17***	***2020-B-18***	***2020-B-19***	***2020-B-20***	***2020-B-21***	***2020-B-22***	***2020-B-23***	***2020-B-24***
			Sample Depth--(Feet)>	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
			Sampler-->	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn	Hohn
			Saturated/Unsaturated-->	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat	Unsat
Metals (mg/kg)	BTV	NTEDC	GW												
Arsenic*	8	0.667	0.584	2.6j	4.9j	<1.7	3.8j	2.2j	<1.7	<1.7	2.3j	<1.7	4.4j	<1.7	<1.7
TCLP Arsenic (mg/L)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

BTV - Based on a recent study by the USGS, and agreement with the WDNR, DATCP, and DHS, 8 mg/kg is the established "background" level of arsenic in Wisconsin.
Detections above 8 mg/kg are considered "above background threshold value"

Detections above BTV are bold **Bold**

< - Concentration below listed laboratory detection limit

NS - No Standard

j - Estimated Value between detection limit and quantification limit

TABLE 2a - B10 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B10																					
Metals	**ES**	**PAL**	1/7/90	4/3/90	6/21/90	10/28/90	2/10/91	4/21/91	8/11/91	11/29/91	2/29/92	5/3/92	7/18/92	10/31/92	2/1/93	6/10/93	9/30/93	12/15/93	2/19/94	7/15/94	9/30/94	12/12/94	7/15/95	11/15/95
Dissolved Arsenic (ug/L)	10	1	<1.0	<1.0	*1.60*	<1.0	<1.0	<1.9	*2.70*	<1.4	<2.0	**11.10**	<1.0	<1.0	*6.20*	<1.0	<1.0	<1.0	<1.0	<1.0	*2.60*	*3.80*	<1.0	<1.0
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	13.0	9.4	5.6	14.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	*5.0*	*5.3*	**15.0**	**76.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	1.5	0.50	1.30	1.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																						
Chloride (mg/L)	250	125	NA	NA	0.80	1.10	NA	42.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	<0.1	0.30	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																								
Temperature (^oC)			6.60	2.60	6.00	9.60	4.90	4.20	8.50	6.00	4.00	2.60	6.90	6.10	5.30	7.50	8.10	5.60	4.90	7.40	7.90	5.90	8.10	7.10
Conductivity (ms/cm)			244.00	83.00	133.00	169.00	148.00	161.00	158.00	129.00	131.00	114.00	131.00	134.00	139.00	144.00	144.00	169.00	174.00	148.00	132.00	164.00	161	141
pH			6.14	6.15	6.35	6.00	6.10	6.10	6.30	6.40	6.20	6.30	6.10	6.30	6.20	5.91	5.73	6.02	6.13	5.99	6.15	6.01	6.21	5.95

Metals	**ES**	**PAL**	8/17/96	7/4/97	8/17/98	8/6/99	8/15/00	7/22/01	7/14/02	8/2/03	9/4/04	6/30/05	6/18/06	6/9/07	7/21/08	8/15/09	6/10/10	8/7/11	10/20/12	11/2/13	6/2/15	**6/1/19-6/19/15 - Source Removal**	9/21/15	6/11/20
Dissolved Arsenic (ug/L)	10	1	1.10	*1.70*	<1.0	<1.0	<1.0	**10.20**	*5.20*	<1.0	**11.50**	<1.0	<1.0	*3.07*	<1.0	<1.0	<1.0	*3.78*	*6.80*	*3.30*	<5		<5	<2.6
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	**33.00**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	530		1,400	NA
Inorganics	**ES**	**PAL**																						
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Field Measurements																								
Temperature (^oC)			8.20	8.40	8.10	7.90	8.30	5.90	7.40	7.50	8.10	8.30	6.90	6.10	6.90	5.70	5.80	5.80	6.30	5.90	9.29		14.31	12.90
Conductivity (ms/cm)			164	161	154	139	158	164	135	129	153	165	135	124	116	125	99	124	87	115	81		88	730
pH			6.08	6.21	6.34	6.18	6.22	6.21	6.16	6.24	5.94	6.25	6.18	6.44	6.29	6.19	6.10	6.20	6.10	6.10	5.79		5.68	5.18

PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
ND - Concentration less than unlisted detection limit

TABLE 2b - B11 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B11																			
Metals	**ES**	**PAL**	01/07/90	04/03/90	06/21/90	10/28/90	02/10/91	04/21/91	08/11/91	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	09/30/93	12/15/93	02/19/94	07/15/94	09/30/94	12/12/94	07/15/95
Dissolved Arsenic (ug/L)	10	1	<1.0	<1.0	*3.40*	<1.0	<1.0	<1.9	<1.9	<1.4	<2.0	**21.20**	<1.0	<1.0	**10.40**	**14.30**	<1.0	*5.70*	<1.0	<1.0	*1.90*	*4.30*	<1.0
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	23.0	10.0	18.0	12.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	**21.0**	*8.2*	*13.0*	**22.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	2.10	5.40	1.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																					
Chloride (mg/L)	250	125	NA	NA	1.00	1.30	NA	1.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	<0.1	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																							
Temperature (^oC)			5.50	5.70	6.40	8.60	6.20	4.70	7.90	6.70	4.40	3.20	5.60	6.40	6.40	7.40	8.00	6.80	5.90	7.20	7.70	6.80	7.90
Conductivity (ms/cm)			615	601	590	623	622	747	763	760	649	637	660	703	598	537	697	704	695	541	655	685	745
pH			6.95	6.77	7.19	6.90	6.80	6.30	6.90	6.90	6.80	6.90	7.00	6.80	6.90	6.84	6.88	6.79	6.85	6.81	6.85	6.81	7.01

Metals	**ES**	**PAL**	11/15/95	08/17/96	07/04/97	08/17/98	08/06/99	08/15/00	07/22/01	07/14/02	08/02/03	09/04/04	06/30/05	06/18/06	06/09/07	07/21/08	06/10/10	08/07/11	11/02/13	6/2/15	**6/1/19-6/19/15 - Source Removal**	9/21/15	6/11/20
Dissolved Arsenic (ug/L)	10	1	<1.0	*3.30*	<1.0	<1.0	<1.0	<1.0	*2.00*	*2.50*	<1.0	*3.50*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	<5		<5	<2.6
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10.00**	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,300		2,800	NA
Inorganics	**ES**	**PAL**																					
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
Field Measurements																							
Temperature (^oC)			6.80	7.90	7.80	7.70	7.70	7.80	6.40	7.70	7.60	7.90	8.00	7.30	7.40	5.70	5.90	5.90	6.80	7.73		11.45	11.70
Conductivity (ms/cm)			605	592	745	753	651	752	769	644	649	682	743	651	730	644	575	655	674	508		516	610
pH			6.92	6.77	6.94	7.02	6.82	6.98	7.11	6.75	6.78	6.69	6.93	6.85	6.81	6.80	6.70	6.70	6.80	6.68		6.89	6.97

PAL = Preventive Action Limit = Exceeds Enforcement Standard
ES = Enforcement Standards = Exceeds Preventative Action Limit

BOLD
Italic

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2c - B12 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B12																			
Metals	**ES**	**PAL**	01/07/90	04/03/90	06/21/90	10/28/90	02/10/91	04/21/91	08/11/91	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	09/30/93	12/15/93	02/19/94	07/15/94	09/30/94	12/12/94
Dissolved Arsenic (ug/L)	10	1	**6,230**	**6,710**	**2,855**	**3,100**	**5,100**	**1,390**	**2,450**	**2,670**	**3,607**	**2,121**	**1,831**	**2,719**	**1,595**	**1,823**	**5,872**	**4,737**	**3,263**	**3,297**	**1,718**	**3,511**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	11.5	3.9	5.8	8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	**16.0**	*8.0*	*1.4*	*4.0*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	4.10	5.10	4.90	NA	1.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Fluoride (mg/L)	4	0.8																				
Chloride (mg/L)	250	125	NA	NA	1.10	1.30	NA	2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	0.10	0.30	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^oC)			7.20	5.80	6.00	8.90	6.00	4.50	8.60	6.90	4.10	3.10	5.70	6.60	5.90	7.30	7.80	6.50	5.70	7.40	7.80	6.70
Conductivity (ms/cm)			571	550	520	537	532	655	523	606	669	682	668	654	535	644	643	654	638	619	649	666
pH			6.69	6.85	7.30	7.00	6.80	7.00	6.80	6.80	6.70	6.80	6.80	6.90	6.80	6.64	6.75	6.82	6.88	6.55	6.74	6.79

Metals	**ES**	**PAL**	07/15/95	09/14/95	11/15/95	12/18/95	08/17/96	07/04/97	08/17/98	08/06/99	08/15/00	07/22/01	07/14/02	08/02/03	07/15/04	08/17/04	09/04/04	12/30/04	03/26/05	06/05/05	06/30/05	10/29/05
Dissolved Arsenic (ug/L)	10	1	**1,456**	**967**	**730**	**1,340**	**2,288**	**2,058**	**1,568**	**1,181**	**1,700**	**589**	**1,116**	**1,363**	**679**	**933**	**1,308**	**1,457**	**1,372**	**967**	**1,266**	**1,475**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,263	NA	NA	NA	1,263	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Fluoride (mg/L)	4	0.8																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^oC)			8.60	7.50	7.00	NA	8.40	8.60	8.70	7.90	8.50	6.00	8.00	7.80	7.90	8.00	7.80	6.80	6.80	8.60	8.50	6.60
Conductivity (ms/cm)			501	625	539	NA	513	545	562	650	511	525	653	644	639	651	641	654	533	511	548	554
pH			6.85	6.65	6.79	NA	6.71	6.79	6.87	6.75	6.82	7.29	6.79	6.69	6.79	6.71	6.74	6.75	6.77	6.87	6.72	6.82

Metals	**ES**	**PAL**	10/29/05	06/18/06	10/29/06	06/09/07	07/21/08	11/22/08	04/18/09	05/25/09	06/14/09	08/15/09	08/15/09	03/21/10	04/18/10	06/10/10	06/20/10	07/24/10	09/04/10	10/02/10	11/20/10	05/07/11
Dissolved Arsenic (ug/L)	10	1	**1,475**	**849**	**1,020**	**1,060**	**699**	**908**	**1,180**	**1,160**	**875**	**964**	**964**	**1,050**	**987**	**971**	**1,080**	**1,040**	**826**	**997**	**730**	**394**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^oC)			6.60	7.20	8.40	6.80	5.80	5.90	6.40	6.60	6.50	5.80	5.80	6.10	6.20	6.00	6.10	6.20	5.80	5.60	5.20	6.10
Conductivity (ms/cm)			554	654	557	525	669	554	562	524	569	559	559	545	549	547	552	558	555	549	549	501
pH			6.82	6.60	6.86	7.10	6.75	7.01	6.80	6.99	6.70	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90	6.70	6.80	6.70

Metals	**ES**	**PAL**	05/07/11	05/28/11	06/26/11	08/07/11	09/24/11	10/15/11	11/20/11	01/08/12	03/24/12	05/04/12	07/07/12	08/11/12	10/20/12	06/02/13	09/07/13	11/02/13	6/2/15	**6/1/19-6/19/15 - Source Removal**	9/21/15	7/14/16
Dissolved Arsenic (ug/L)	10	1	**394**	**549**	**440**	**601**	**900**	**818**	**789**	**807**	**603**	**425**	**200**	**760**	**970**	**440**	**860**	**900**	**270**		**540**	**490**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,600			2,000	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA	NA
Field Measurements																						
Temperature (^oC)			6.10	6.20	6.40	6.10	5.90	5.80	5.60	5.40	6.10	6.00	6.20	5.80	6.10	7.90	7.80	6.50	7.75		11.42	11.42
Conductivity (ms/cm)			501	524	506	527	554	547	555	575	555	559	628	553	557	645	556	555	508		505	505
pH			6.70	6.70	6.70	6.80	6.70	6.80	6.70	6.80	6.80	6.70	6.70	6.80	6.70	6.80	6.80	6.70	6.75		7.18	7.18

Metals	**ES**	**PAL**	10/10/16	10/29/16	4/22/17	5/30/17	8/28/17	10/17/17	10/28/17	3/13/18	4/14/18	7/22/18	8/31/18	6/10/19	7/18/19	5/15/20	6/11/20
Dissolved Arsenic (ug/L)	10	1	**560**	**1000**	**150**	**120**	**530**	**210**	**410**	**310**	**220**	**446**	**510**	**230**	**460**	**610**	**560**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**															
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																	
Temperature (^oC)																12.70	11.60
Conductivity (ms/cm)																680	540
pH																7.09	7.10

PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2d - B13 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B13																			
Metals	**ES**	**PAL**	01/07/90	04/03/90	06/21/90	10/28/90	02/10/91	04/21/91	08/11/91	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	09/30/93	12/15/93	02/19/94	07/15/94	09/30/94	12/12/94
Dissolved Arsenic (ug/L)	10	1	**109**	**77**	**41**	**52**	**110**	**1,150**	**1,140**	**1,120**	**139**	**15,725**	**600**	**738**	**2,310**	**24,468**	**3,937**	**785**	**133**	**393**	**302**	**220**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	11.0	2.6	13.0	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	*9.0*	*4.6*	*3.9*	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	1.00	1.20	4.60	NA	2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	4.80	3.20	NA	16.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	1.20	6.50	NA	8.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (°C)			7.60	5.70	5.80	9.40	6.50	4.50	8.80	7.20	4.20	3.60	5.50	6.80	6.00	7.50	8.00	6.50	5.80	7.60	8.00	6.90
Conductivity (ms/cm)			561	539	700	711	587	778	540	596	666	714	883	794	609	879	785	747	744	775	795	787
pH			6.81	6.59	7.01	6.80	6.70	6.70	7.00	7.10	6.80	6.90	6.90	6.90	6.70	6.80	6.85	6.91	7.01	6.91	6.83	7.01

Metals	**ES**	**PAL**	07/15/95	09/14/95	11/15/95	12/18/95	08/17/96	07/04/97	08/17/98	08/06/99	08/15/00	07/22/01	07/14/02	08/02/03	07/15/04	08/17/04	09/04/04	12/30/04	03/26/05	06/05/05	06/30/05	10/29/05
Dissolved Arsenic (ug/L)	10	1	**88**	**49**	**6,901**	**2,000**	**584**	**503**	**842**	**359**	**82**	**31,733**	**16,595**	**941**	**9,560**	**1,792**	**2,949**	**2,799**	**886**	**1,825**	**233**	**1,126**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**2,136**	NA	1,170	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (°C)			8.70	7.70	7.30	NA	8.10	8.70	8.70	8.00	8.60	5.70	8.10	8.00	8.10	8.20	8.00	6.90	6.50	8.70	8.70	6.90
Conductivity (ms/cm)			544	778	622	NA	556	533	533	775	549	1042	841	728	999	697	690	724	587	545	536	534
pH			7.04	7.02	6.63	NA	6.85	7.01	6.79	6.82	7.09	6.99	6.99	6.87	6.85	6.90	6.89	6.84	6.70	7.04	6.99	6.57

Metals	**ES**	**PAL**	06/18/06	07/22/06	08/20/06	10/29/06	06/09/07	07/21/08	11/22/08	04/18/09	05/25/09	06/14/09	08/09/09	08/15/09	03/21/10	04/18/10	06/10/10	06/20/10	07/24/10	09/04/10	10/02/10	11/20/10
Dissolved Arsenic (ug/L)	10	1	**646**	**745**	**440**	**613**	**1,130**	**17,900**	**11,500**	**7,670**	**2,880**	**1,190**	**2,870**	**2,140**	**3,290**	**1,920**	**2,240**	**1,450**	**1,180**	**1,310**	**4,950**	**1,640**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (°C)			7.60	7.70	7.60	8.90	6.50	5.70	6.00	6.20	6.50	6.30	5.80	5.60	6.50	6.40	6.10	6.20	6.30	6.00	5.70	5.40
Conductivity (ms/cm)			779	537	539	665	665	882	824	704	688	658	698	675	675	645	666	634	650	627	709	677
pH			6.90	6.62	6.69	6.62	6.84	6.90	6.90	6.90	6.85	6.90	7.00	7.01	6.70	6.80	6.70	6.60	6.70	6.60	6.50	6.70

Metals	**ES**	**PAL**	05/07/11	05/28/11	06/26/11	08/07/11	09/24/11	10/15/11	11/20/11	01/08/12	03/24/12	05/04/12	07/07/12	08/11/12	10/20/12	06/02/13	06/22/13	09/07/13	11/02/13	6/2/15	**6/1/19-6/19/15 - Source Removal - B13 Replaced with B13R**	9/21/15
Dissolved Arsenic (ug/L)	10	1	**55,600**	**72,000**	**32,000**	**10,800**	**8,370**	**2,050**	**1,820**	**844**	**6,250**	**5,920**	**2,400**	**1,400**	**2,600**	**18,000**	**19,000**	**10,000**	**3,500**	**8,500**		**98**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,900		3,400
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1		NA
Field Measurements																						
Temperature (°C)			5.90	6.40	6.20	6.30	6.30	6.10	5.70	5.60	6.50	6.20	6.30	6.10	6.20	8.10	8.30	8.00	6.60	7.94		11.88
Conductivity (ms/cm)			801	823	789	752	726	698	681	607	666	688	657	622	536	878	891	855	862	478		370
pH			6.70	6.80	6.90	6.80	6.80	6.80	6.90	6.75	6.70	6.80	6.80	6.60	6.90	6.90	6.70	6.90	6.90	6.95		7.14

Metals	**ES**	**PAL**	7/14/16	10/10/16	10/29/16	4/8/17	4/22/17	5/30/17	6/24/17	8/28/17	10/17/17	10/28/17	3/13/18	4/14/18	6/10/18	7/22/18	8/31/18	6/10/19	7/18/19	5/15/20	6/11/20	7/6/20
Dissolved Arsenic (ug/L)	10	1	**5,400**	**2,900**	**2,700**	**6,300**	**8,800**	**8,400**	**7,700**	**4,000**	**3,200**	**2,400**	**1,000**	**3,200**	**5,300**	**4,400**	**3,300**	**4,970**	**4,230**	**1,900**	**1,100**	**4,600**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (°C)																					12.10	13.40
Conductivity (ms/cm)																					770	750
pH																					7.07	7.17

PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2e - B13a GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B13a																				
Metals	**ES**	**PAL**	01/07/90	04/03/90	06/21/90	10/28/90	02/10/91	04/21/91	08/11/91	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	09/30/93	12/15/93	02/19/94	07/15/94	09/30/94	12/12/94	07/15/95	11/15/95
Dissolved Arsenic (ug/L)	10	1	*4.00*	<1.0	<1.0	<1.0	<1.0	<1.9	*6.30*	<1.4	*2.20*	**15.70**	<1.0	<1.0	*3.30*	*3.40*	<1.0	<1.0	<1.0	<1.0	<1.0	*1.40*	*1.70*	*4.30*
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	16.0	4.1	10.0	12.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	*7.0*	*5.8*	*2.2*	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	3.60	2.20	0.10	5.30	NA	4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																						
Chloride (mg/L)	250	125	NA	NA	1.60	1.30	NA	2.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	0.10	0.30	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																								
Temperature (^oC)			7.80	6.30	6.30	9.50	6.70	5.10	7.40	6.80	4.50	3.90	5.70	6.40	6.70	7.10	7.70	6.20	6.00	6.90	7.90	7.20	8.60	6.90
Conductivity (ms/cm)			489	479	456	476	422	466	383	337	320	322	338	379	454	523	444	469	475	499	347	444	439	447
pH			6.12	6.49	6.65	6.44	6.40	6.20	6.50	6.50	6.40	6.50	6.40	6.50	6.50	6.45	6.41	6,37	6.45	6.26	6.27	6.33	6.29	6.51

Metals	**ES**	**PAL**	12/18/95	08/17/96	07/04/97	08/17/98	08/06/99	08/15/00	07/22/01	07/14/02	08/02/03	09/04/04	03/26/05	06/05/05	06/30/05	10/29/05	06/18/06	10/29/06	06/09/07	07/21/08	04/18/09	05/25/09	06/14/09	08/09/09
Dissolved Arsenic (ug/L)	10	1	*1.30*	*1.90*	<1.0	*1.00*	*3.50*	*1.00*	*6.70*	**52.60**	<1.0	<1.0	*2.90*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	*2.33*	*3.88*	0.68	0.64
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	*6.50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**		**PAL**																					
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																								
Temperature (^oC)			NA	7.60	7.50	7.60	7.80	8.70	5.80	7.80	7.70	7.70	6.70	8.50	7.60	6.40	6.80	9.20	6.40	5.80	6.30	6.40	6.40	5.90
Conductivity (ms/cm)			NA	418	395	385	352	437	443	398	399	459	425	436	401	377	491	477	429	340	333	344	345	346
pH			NA	6.29	6.47	6.42	6.29	6.41	6.28	6.27	6.33	6.42	6.35	6.29	6.44	6.50	6.19	6.41	6.41	6.33	6.20	6.30	6.30	6.30

Metals	**ES**	**PAL**	08/15/09	03/21/10	04/18/10	06/10/10	06/20/10	07/24/10	09/04/10	11/20/10	05/07/11	06/26/11	08/07/11	09/24/11	10/15/11	03/24/12	07/07/12	08/11/12	10/20/12	06/02/13	11/02/13	6/2/15	**6/1/19-6/19/15 - Source Removal - B13a Abandoned**
Dissolved Arsenic (ug/L)	10	1	*1.86*	*4.95*	*1.48*	*4.74*	*5.47*	*4.95*	<1.0	*5.80*	**132.00**	**14.60**	**10.90**	*8.60*	*7.39*	**13.60**	*7.90*	*7.00*	*7.70*	*7.20*	*3.10*	<5	
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,400	
Inorganics	**ES**	**PAL**																					
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Measurements																							
Temperature (^oC)			5.50	6.70	6.50	6.20	6.30	6.40	6.10	5.50	6.20	6.40	6.40	6.40	6.20	6.70	6.50	6.36	6.40	7.10	6.30	6.95	
Conductivity (ms/cm)			644	414	404	411	422	431	429	432	409	399	419	375	389	449	429	409	473	524	519	268	
pH			6.20	6.30	6.30	6.30	6.40	6.30	6.30	6.30	6.30	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.40	6.42	6.35	6.59	

PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2f - B18 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B18																		
Metals	**ES**	**PAL**	04/03/90	06/21/90	10/28/90	02/10/91	04/21/91	08/11/91	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	09/30/93	12/15/93	02/19/94	07/15/94	09/30/94	12/12/94	07/15/95
Dissolved Arsenic (ug/L)	10	1	<1.0	<1.0	<1.0	<1.0	<1.9	*5.20*	<1.4	*6.00*	*5.30*	<1.0	*5.20*	**11.60**	<1.0	<1.0	*7.90*	*4.00*	<1.0	<1.0	*2.20*	<1.0
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	4.0	15.0	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	*6.1*	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	0.60	1.20	4.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	1.10	1.30	NA	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	0.10	<0.1	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^oC)			5.70	6.00	8.90	6.20	4.50	8.50	6.90	3.90	3.10	5.50	6.50	6.10	7.70	8.20	6.60	6.20	7.40	8.40	7.00	8.60
Conductivity (ms/cm)			496	518	553	549	485	679	496	544	553	545	567	555	583	575	604	596	575	549	675	692
pH			6.67	7.20	7.00	6.70	6.60	6.90	6.80	6.70	6.70	6.70	6.80	6.80	6.88	6.92	7.04	7.09	6.94	7.04	6.94	6.94

Metals	**ES**	**PAL**	11/15/95	08/17/96	07/04/97	08/17/98	08/06/99	08/15/00	07/22/01	07/14/02	08/02/03	09/04/04	06/30/05	06/09/07	07/21/08	08/15/09	06/10/10	08/07/11	10/20/12	11/02/13	6/2/15	**6/1/19-6/19/15 - Source Removal - B18 Abandoned**
Dissolved Arsenic (ug/L)	10	1	*3.10*	*2.00*	<1.0	*5.80*	<1.0	<1.0	*6.50*	<1.0	<1.0	<1.0	<1.0	<1.0	*1.53*	0.96	<1.0	*10.30*	ND	*2.60*	<5	
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,700	
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Measurements																						
Temperature (^oC)			7.00	8.10	8.50	8.40	8.20	8.50	6.00	8.30	8.00	8.30	8.50	6.20	5.50	5.70	6.30	6.30	6.10	6.60	10.4	
Conductivity (ms/cm)			556	551	684	697	547	694	525	557	575	576	687	565	552	555	555	545	625	612	463	
pH			6.99	7.01	6.92	6.91	7.00	6.91	7.15	7,01	7.01	6.94	6.91	7.02	6.70	6.70	6.90	6.70	6.70	6.70	7.04	

PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2g - B19 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B19																		
Metals	**ES**	**PAL**	04/03/90	06/21/90	10/28/90	02/10/91	04/21/91	08/11/91	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	09/30/93	12/15/93	02/19/94	07/15/94	09/30/94	12/12/94	07/15/95
Dissolved Arsenic (ug/L)	10	1	*4.00*	<1.0	<1.0	<1.0	<1.9	<1.9	<1.4	*4.30*	*2.30*	<1.0	<1.0	*5.20*	*4.30*	<1.0	*4.50*	<1.0	<1.0	<1.0	*5.10*	<1.0
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	3.5	19.0	9.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	*7.1*	<2.0	**37.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	2.40	21.40	21.60	NA	26.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	1.50	1.90	NA	13.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	3.00	2.90	NA	3.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^oC)			5.80	6.20	9.10	6.10	4.40	8.40	6.70	3.80	2.90	5.70	6.30	5.90	7.60	8.10	6.20	5.90	7.50	8.30	6.60	8.50
Conductivity (ms/cm)			645	562	642	694	440	615	634	625	306	549	555	703	487	543	574	576	462	557	569	607
pH			6.69	7.01	6.90	6.70	6.50	6.80	6.90	6.70	6.80	6.90	6.90	6.90	6.79	6.84	6.77	6.85	6.83	6.84	6.75	6.82

Metals	**ES**	**PAL**	11/15/95	08/17/96	07/04/97	08/17/98	08/06/99	08/15/00	07/22/01	07/14/02	08/02/03	09/04/04	06/30/05	06/18/06	06/09/07	07/21/08	08/15/09	06/10/10	08/07/11	10/20/12	11/02/13	6/2/15
Dissolved Arsenic (ug/L)	10	1	<1.0	*2.30*	<1.0	*5.00*	<1.0	<1.0	**11.40**	*6.60*	<1.0	*2.00*	<1.0	<1.0	0.83	<1.0	*2.79*	<1.0	*4.36*	ND	*3.20*	<5
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,600
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1
Field Measurements																						
Temperature (^oC)			7.20	8.40	8.40	8.50	8.40	8.60	6.30	8.40	8.10	8.20	8.40	7.50	6.30	5.60	5.60	6.40	6.20	5.90	6.20	10.24
Conductivity (ms/cm)			723	610	621	625	552	613	539	565	568	546	625	466	574	558	567	625	611	650	637	173
pH			6.87	6.73	6.77	6.69	6.82	6.85	7.04	6.91	6.79	7.01	6.75	6.85	6.90	6.90	6.90	6.80	6.80	6.80	6.90	6.37

Metals	**ES**	**PAL**	**6/1/19-6/19/15 - Source Removal - B19 Replaced with B19R**	9/21/15	6/11/20
Dissolved Arsenic (ug/L)	10	1		<5	<2.6
Total Arsenic (unfiltered) (ug/L)	10	1		NA	NA
Copper (ug/L)	1300	130		NA	NA
Dissolved Lead (ug/L)	15	1.5		NA	NA
Sodium (mg/L)	NS	NS		3,500	NA
Inorganics	**ES**	**PAL**			
Chloride (mg/L)	250	125		NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1		NA	NA
Field Measurements					
Temperature (^oC)				12.32	12.30
Conductivity (ms/cm)				629	780
pH				6.86	7.04

PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2h - B20 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B20																		
Metals	**ES**	**PAL**	04/03/90	06/21/90	10/28/90	02/10/91	04/21/91	08/11/91	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	09/30/93	12/15/93	02/19/94	07/15/94	09/30/94	12/12/94	07/15/95
Dissolved Arsenic (ug/L)	10	1	<1.0	<1.0	<1.0	<1.0	*2.60*	*4.80*	<1.4	<2.0	**10.70**	<1.0	<1.0	*5.50*	<1.0	<1.0	*6.80*	<1.0	*8.50*	<1.0	<1.0	<1.0
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	3.9	7.9	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	*2.9*	<2.0	*3.0*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	1.60	2.30	7.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	1.10	1.30	NA	11.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	0.10	0.20	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^oC)			5.10	6.60	9.40	6.50	4.50	8.60	6.90	3.90	3.00	5.80	6.40	6.30	7.80	8.20	6.40	6.00	7.70	8.10	6.70	8.60
Conductivity (ms/cm)			624	540	580	589	706	578	474	551	588	529	509	577	625	521	529	535	601	517	522	549
pH			6.55	7.09	6.90	6.90	6.60	6.80	6.70	7.00	7.00	6.80	7.00	6.80	6.97	7.04	7.11	7.04	7.01	6.73	7.11	6.91

Metals	**ES**	**PAL**	11/15/95	08/17/96	07/04/97	08/17/98	08/06/99	08/15/00	07/22/01	07/14/02	08/02/03	09/04/04	06/30/05	06/18/06	06/09/07	07/21/08	08/15/09	06/10/10	08/07/11	10/20/12	11/02/13	6/2/15
Dissolved Arsenic (ug/L)	10	1	*2.50*	<1.0	<1.0	<1.0	<1.0	<1.0	*2.90*	*2.50*	<1.0	*8.40*	<1.0	<1.0	<1.0	*6.00*	*4.81*	<1.0	*3.84*	ND	*1.90*	<5
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,600
Inorganics	**ES**	**PAL**																				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^oC)			7.40	8.70	8.70	8.40	8.00	8.50	6.60	7.90	7.10	8.10	8.40	7.70	6.60	5.70	5.80	6.50	6.40	5.80	6.40	8.29
Conductivity (ms/cm)			565	558	582	575	507	557	531	514	527	555	580	604	541	534	526	575	568	622	621	417
pH			7.02	6.67	6.82	6.81	6.71	6.71	7.11	6.68	7.79	7.09	6.79	6.99	7.11	6.80	6.80	6.90	6.90	6.90	6.80	6.90

Metals	**ES**	**PAL**	**6/1/19-6/19/15 - Source Removal**	9/21/15	6/11/20
Dissolved Arsenic (ug/L)	10	1		<5	<2.6
Total Arsenic (unfiltered) (ug/L)	10	1		NA	NA
Copper (ug/L)	1300	130		NA	NA
Dissolved Lead (ug/L)	15	1.5		NA	NA
Sodium (mg/L)	NS	NS		2,600	NA
Inorganics	**ES**	**PAL**			
Chloride (mg/L)	250	125		NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1		NA	NA
Field Measurements					
Temperature (^oC)				11.72	11.90
Conductivity (ms/cm)				428	590
pH				6.89	6.99

PAL = Preventive Action Limit
ES = Enforcement Standards
BOLD = Exceeds Enforcement Standard
Italic = Exceeds Preventative Action Limit
NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2i - B21 GROUNDWATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			B21																		
Metals	**ES**	**PAL**	07/15/04	08/17/04	09/04/04	12/30/04	03/26/05	06/05/05	06/30/05	08/13/05	10/29/05	02/28/06	04/02/06	05/07/06	06/18/06	07/22/06	08/20/06	10/29/06	06/09/07	07/21/08	11/22/08	04/18/09
Dissolved Arsenic (ug/L)	10	1	**444**	**279**	**325**	**160**	**27**	**71**	**37.8**	**73.7**	**305**	**129**	**37**	**38**	**24**	**70**	**42**	**85**	**49.3**	**21.0**	**44.2**	**25.2**
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	*NA*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^{0}C)			7.90	7.80	7.90	6.80	6.30	8.30	7.90	7.80	6.50	6.40	6.40	7.90	7.80	7.70	7.70	8.40	6.45	5.60	5.80	6.40
Conductivity (ms/cm)			597	589	594	562	603	599	594	604	595	589	601	592	599	604	607	600	589	607	595	599
pH			6.87	6.89	7.05	6.99	6.88	6.61	7.02	7.05	6.50	6.69	6.77	6.82	6.97	6.71	6.82	6.50	6.85	6.70	6.70	6.70

Metals	**ES**	**PAL**	05/25/09	06/14/09	08/15/09	03/21/10	04/18/10	06/10/10	06/20/10	07/24/10	09/04/10	10/02/10	11/20/10	05/07/11	06/26/11	08/07/11	09/24/11	10/15/11	11/20/11	01/08/12	03/24/12	05/04/12
Dissolved Arsenic (ug/L)	10	1	**26.3**	**29.7**	**58.4**	**25.4**	**48.8**	**45.9**	**51.4**	**13.9**	**54.7**	**19.0**	**37.2**	**16.6**	**31.5**	**32.2**	**35.0**	**29.5**	**39.3**	**24.9**	**10.5**	*5.7*
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	701.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^{0}C)			6.50	6.50	5.70	6.60	6.50	6.30	6.20	6.30	5.90	5.60	5.10	6.30	6.40	6.30	6.20	6.00	5.60	5.60	6.50	6.30
Conductivity (ms/cm)			602	603	594	597	603	601	591	611	599	609	598	554	575	603	606	598	604	589	544	602
pH			6.80	6.80	6.70	7.01	6.95	6.80	6.70	6.80	6.70	6.80	6.80	6.70	6.80	6.70	6.80	6.70	6.80	6.90	6.95	6.80

Metals	**ES**	**PAL**	05/04/12	07/07/12	08/11/12	10/20/12	06/02/13	06/22/13	09/07/13	11/02/13	6/2/15	**6/1/19-6/19/15 - Source Removal**	9/21/15	10/29/16	4/8/17	4/22/17	5/30/17	6/24/17	8/28/17	10/17/17	10/28/17	3/13/18
Dissolved Arsenic (ug/L)	10	1	*5.7*	**15.0**	**23.0**	**44.0**	**14.0**	**17.0**	**30.0**	**28.0**	*5.2*		**13**	*1.4*	**22**	*8.5*	*3.9*	*4.0*	*5.3*	*7.7*	*7.6*	*7.1*
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	11,000		13,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**	**PAL**	NA	NA	NA	NA	NA	NA	NA	NA												
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																						
Temperature (^{0}C)			6.30	6.40	5.90	6.10	8.20	8.20	8.10	6.50	10.81		14.26									
Conductivity (ms/cm)			602	613	584	607	599	594	604	601	366		389									
pH			6.80	6.70	6.70	6.90	7.00	7.10	7.00	6.90	7.10		6.65									

Metals	**ES**	**PAL**	4/14/18	6/10/18	7/22/18	8/31/18	6/10/19	7/18/19	5/15/20	6/11/20
Dissolved Arsenic (ug/L)	10	1	*7.8*	**11.0**	**11.9**	**13.0**	**41.4**	*5.0*	*2.8*	*5.2j*
Total Arsenic (unfiltered) (ug/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Copper (ug/L)	1300	130	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead (ug/L)	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Sodium (mg/L)	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics	**ES**					**PAL**				
Chloride (mg/L)	250	125	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen (NO_3 - N) (mg/L)	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements										
Temperature (^{0}C)									13.40	11.60
Conductivity (ms/cm)									650	510
pH									6.87	6.89

PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 2j - POTABLE WELL ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			Potable Wells																				
			Burkhart/Timm																				
Metals	**ES**	**PAL**	10/28/90	11/29/91	02/29/92	05/03/92	07/18/92	10/31/92	02/01/93	06/10/93	12/29/93	02/19/94	07/15/94	12/12/94	07/15/95	11/15/95	08/17/96	08/17/98	08/06/99	08/16/00	12/26/00	07/22/01	07/14/02	11/01/05
Dissolved Arsenic (ug/L)	10	1	<1.0	*7.30*	*4.20*	*1.30*	<1.0	*1.00*	*4.90*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	*1.80*	<1.0	<1.0	<1.0	*2.00*	*1.50*	<1.0

			Burkhart/Timm																				**Potable-SW****
Metals	**ES**	**PAL**	08/02/03	09/11/04	08/20/06	06/10/07	11/22/08	11/30/09	06/10/10	10/15/11	12/01/12	11/02/13	03/04/15	03/04/15	06/11/15	06/17/15	07/14/16	07/14/16	04/29/17	05/30/17	06/10/18	06/10/19	05/15/20	06/17/15
Dissolved Arsenic (ug/L)	10	1	<1.0	4.00	*4.00*	*3.51*	*4.39*	0.74	<1.0	*4.19*	*9.20*	*7.40*	**11.2j**	*9.1j*	Treatment*	0.43j	*1.4*	*1.5*	*3.5*	*1.5*	*6.1*	*3.4*	*3.4*	*1.50*

			Fandrey	**Norton**	**Resch**	**Seidler/Kessen**										**Wakefield**								
Metals	**ES**	**PAL**	09/11/04	09/11/04	02/05/05	10/28/90	11/29/91	11/01/93	02/19/94	12/12/94	07/15/95	11/15/95	08/17/96	07/18/92	06/17/15	09/11/04	08/20/06	06/10/07	11/22/08	11/30/09	06/10/10	10/15/11	12/01/12	11/02/13
Dissolved Arsenic (ug/L)	10	1	<0.6	<0.6	<1.2	<1.0	<1.4	<1.0	<1.0	*2.40*	<1.0	<1.0	*1.20*	<1.0	*3*	*4.80*	*3.50*	<1.0	*4.42*	0.69	<1.0	*2.02*	*4.60*	*4.70*

j - Estimated value between method detection limit and reporting limit
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit
*Treatment System installed on Timm well 6/11/15
**Sample labeled "Potable -SW-0615 by TetraTech is assumed to be Low property at W19235 Marsh Road

TABLE 2K - WETLAND SURFACE WATER ANALYTICAL RESULTS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

			SW-01-0615	SW-01-0915	SW-02-0615	SW-02-0915	SW-03-0615
Metals	**ES**	**PAL**	06/02/15	09/22/15	06/02/15	09/22/15	06/02/15
Dissolved Arsenic (ug/L)	10	1	<5	<5	<5	<5	<5

J - Estimated value between method detection limit and reporting limit
PAL = Preventive Action Limit
ES = Enforcement Standards

BOLD	= Exceeds Enforcement Standard
Italic	= Exceeds Preventative Action Limit

NA - Not Analyzed
< - Concentration less than listed detection limit

TABLE 3
WATER LEVEL ELEVATIONS
TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

	B10	B11	B12	B13	B13R	B13a	B18	B19	B19R	B20	B21
Ground Surface Elevation	93.8	97.10	94.20	96.30	NM	96.40	96.80	96.60	NM	95.50	96.30
Top of Casing Elevation	96.53	99.66	97.54	99.98	99.28	98.08	99.18	98.31	99.44	97.56	93.48
Re-survey 6/2/15	96.64	99.77	97.64	99.01	-	98.23	99.61	98.12	-	97.70	93.67
Top of Screen Elevation	89.80	87.60	84.20	86.80	90.28	74.40	89.29	89.84	92.44	84.36	89.48
Bottom of Screen Elevation	77.80	77.60	74.20	76.80	80.28	64.70	79.29	79.84	82.44	79.36	79.48
Depth to Water (feet)											
01/07/90	9.86	18.35	16.89	20.70	NI	17.10	Dry	Dry	NI	Dry	NI
04/03/90	7.81	16.99	15.53	16.59	NI	15.84	16.49	15.57	NI	15.39	NI
06/21/90	7.07	14.92	13.51	14.48	NI	13.77	14.45	13.55	NI	13.36	NI
10/28/90	7.14	15.09	13.71	14.71	NI	13.98	14.63	13.76	NI	13.53	NI
02/10/91	8.03	16.08	14.60	15.67	NI	14.92	15.74	14.71	NI	14.52	NI
04/21/91	6.63	11.80	10.44	11.37	NI	10.66	11.47	10.49	NI	10.17	NI
08/11/91	7.77	13.80	12.54	13.59	NI	12.76	13.45	12.52	NI	12.36	NI
11/29/91	7.59	13.61	12.35	13.41	NI	12.63	13.31	12.34	NI	12.17	NI
02/29/92	8.33	14.00	12.85	13.66	NI	12.95	13.70	12.69	NI	12.50	NI
05/03/92	6.81	10.84	9.67	10.52	NI	9.84	10.64	9.68	NI	9.35	NI
07/18/92	8.02	13.51	12.30	13.21	NI	12.49	13.19	12.26	NI	12.10	NI
10/31/92	7.53	13.80	12.50	13.57	NI	12.75	13.58	12.52	NI	12.34	NI
02/01/93	7.46	12.92	11.77	12.70	NI	12.05	12.67	11.85	NI	11.58	NI
06/10/93	6.33	10.43	9.19	9.99	NI	9.34	10.19	9.23	NI	8.90	NI
09/30/93	7.51	13.36	11.79	12.68	NI	12.10	12.85	11.74	NI	11.42	NI
12/15/93	7.79	13.78	12.35	13.26	NI	12.57	13.34	12.31	NI	12.01	NI
02/19/94	7.53	13.54	12.25	13.15	NI	12.45	13.09	12.15	NI	11.85	NI
07/15/94	7.64	14.17	12.92	13.90	NI	13.21	13.89	12.83	NI	12.64	NI
09/30/94	7.45	13.75	12.55	13.45	NI	12.80	13.44	12.39	NI	12.17	NI
12/12/94	7.15	14.15	12.92	13.84	NI	13.10	13.75	12.76	NI	12.55	NI
07/15/95	7.87	13.82	12.55	13.45	NI	12.76	13.41	12.50	NI	12.34	NI
09/14/95	NM	NM	13.11	14.05	NI	NM	NM		NI	NM	NI
11/15/95	7.46	12.61	11.40	12.37	NI	11.75	12.37	11.55	NI	11.21	NI
12/18/95	NM	NM	11.80	12.85	NI	12.14	NM		NI	NM	NI
08/17/96	7.34	15.89	14.50	15.55	NI	14.81	15.44	14.51	NI	14.39	NI
07/04/97	7.59	14.29	13.01	14.09	NI	13.24	13.87	13.04	NI	12.81	NI
08/17/98	7.72	13.75	12.30	13.41	NI	12.82	13.37	12.25	NI	12.15	NI
08/06/99	7.54	13.69	12.45	13.56	NI	12.74	13.33	12.28	NI	12.05	NI
08/15/00	7.92	13.94	12.85	13.72	NI	12.92	13.50	12.57	NI	12.44	NI
07/22/01	6.55	11.65	10.16	11.14	NI	10.48	11.42	10.37	NI	9.96	NI
07/14/02	7.72	12.89	11.36	12.25	NI	11.56	12.50	11.41	NI	11.12	NI
08/02/03	7.72	13.99	12.95	13.83	NI	13.28	12.79	13.49	NI	12.56	NI
07/15/04	NM	NM	11.04	11.89	NI	NM	NM	NM	NI	NM	7.58
08/17/04	NM	NM	12.51	13.48	NI	NM	NM	NM	NI	NM	8.92
09/04/04	7.99	13.95	12.86	13.84	NI	13.08	13.52	12.92	NI	12.72	9.26
12/30/04	NM	NM	13.32	14.25	NI	NM	NM	NM	NI	NM	9.64
03/26/05	NM	NM	14.10	15.36	NI	14.42	NM	NM	NI	NM	10.74
06/05/05	NM	14.28	12.00	12.94	NI	12.28	NM	13.01	NI	12.83	8.24
06/30/05	7.62	NM	13.10	14.05	NI	13.31	13.85	NM	NI	NM	9.46
08/13/05	NM	NM	NM	n	NI	NM	NM	NM	NI	NM	11.03
10/29/05	NM	NM	15.15	16.09	NI	15.51	NM	NM	NI	NM	11.34
02/28/06	NM	NM	NM	NM	NI	NM	NM	NM	NI	NM	10.96
04/02/06	NM	NM	NM	NM	NI	NM	NM	NM	NI	NM	9.00
05/07/06	NM	NM	NM	NM	NI	NM	NM	NM	NI	NM	8.65
06/18/06	8.35	13.68	12.70	13.74	NI	13.10	NM	13.01	NI	12.60	9.21
07/22/06	NM	NM	NM	15.50	NI	NM	NM	NM	NI	NM	10.61
08/20/06	NM	NM	NM	15.55	NI	NM	NM	NM	NI	NM	10.41
10/29/06	NM	NM	14.65	15.74	NI	15.10	NM	NM	NI	NM	11.01
06/09/07	6.90	14.94	13.49	14.64	NI	14.09	14.95	13.75	NI	13.32	9.85
07/21/08	7.13	12.70	11.20	12.13	NI	11.50	12.15	11.01	NI	10.85	7.48
11/22/08	NM	NM	14.65	15.42	NI	NM	NM	NM	NI	NM	10.83
04/18/09	NM	NM	14.75	15.50	NI	14.99	NM	NM	NI	NM	10.88
05/25/09	NM	NM	13.40	14.08	NI	13.65	NM	NM	NI	NM	9.60
06/14/09	NM	NM	13.34	14.15	NI	13.66	NM	NM	NI	NM	9.56
08/09/09	NM	NM	NM	16.36	NI	15.83	NM	NM	NI	NM	NM
08/15/09	7.79	NM	15.48	16.38	NI	15.75	16.85	15.94	NI	15.83	11.85
03/21/10	NM	NM	13.99	15.08	NI	14.35	NM	NM	NI	NM	10.04
04/18/10	NM	NM	13.81	14.88	NI	14.24	NM	NM	NI	NM	10.18
06/10/10	8.03	16.08	14.49	15.60	NI	15.08	15.74	14.71	NI	14.52	10.80
06/20/10	NM	NM	14.00	15.10	NI	14.57	NM	NM	NI	NM	10.24
07/24/10	NM	NM	13.27	14.48	NI	13.70	NM	NM	NI	NM	9.87
09/04/10	NM	NM	13.90	14.95	NI	14.43	NM	NM	NI	NM	10.15
10/02/10	NM	NM	12.60	13.70	NI	NM	NM	NM	NI	NM	9.57
11/20/10	NM	NM	12.82	13.79	NI	13.12	NM	NM	NI	NM	9.08
05/07/11	NM	NM	9.39	10.24	NI	9.72	NM	NM	NI	NM	6.01
05/28/11	NM	NM	10.00	10.80	NI	NM	NM	NM	NI	NM	NM
06/26/11	NM	NM	10.98	10.24	NI	11.25	NM	NM	NI	NM	8.73
08/07/11	8.14	13.69	12.21	12.96	NI	12.44	13.11	12.14	NI	11.91	9.96
09/24/11	NM	NM	13.31	14.24	NI	13.56	NM	NM	NI	NM	9.88
10/15/11	NM	NM	12.91	13.88	NI	12.99	NM	NM	NI	NM	9.20
11/20/11	NM	NM	13.08	14.07	NI	NM	NM	NM	NI	NM	9.40
01/08/12	NM	NM	13.24	14.16	NI	NM	NM	NM	NI	NM	9.71
03/24/12	NM	NM	11.88	12.72	NI	12.16	NM	NM	NI	NM	8.08
05/04/12	NM	NM	11.32	12.25	NI	NM	NM	NM	NI	NM	7.56
07/07/12	NM	NM	12.71	13.60	NI	12.89	NM	NM	NI	NM	9.00
08/11/12	NM	NM	13.85	14.75	NI	14.09	NM	NM	NI	NM	10.08
10/20/12	10.60	NM	15.50	16.58	NI	15.80	16.49	15.60	NI	15.37	11.80

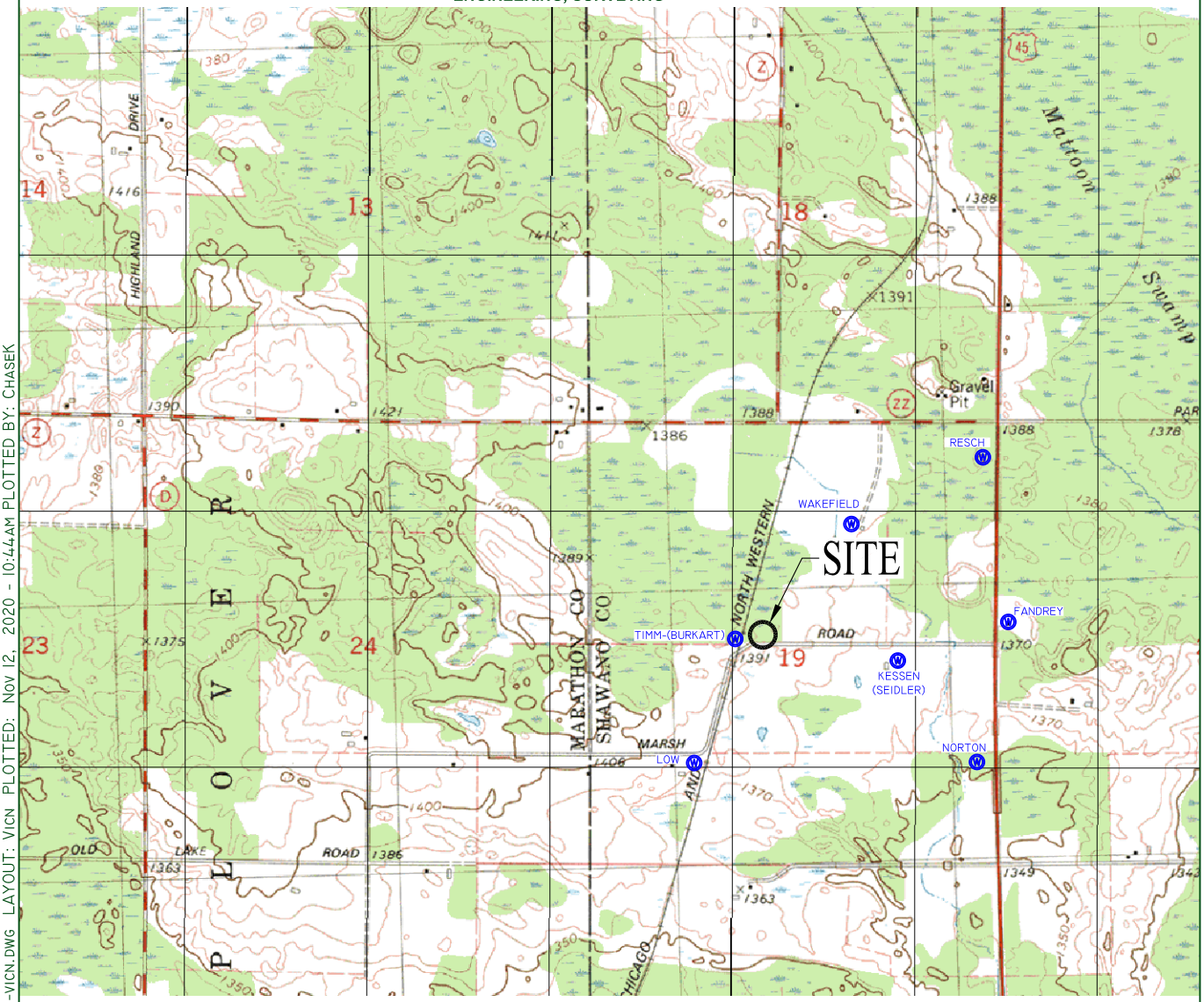
06/02/13	NM	NM	10.31	11.20	NI	10.80	NM	NM	NI	NM	7.00
06/22/13	NM	NM	NM	11.40	NI	NM	NM	NM	NI	NM	7.16
09/07/13	NM	NM	13.50	14.40	NI	NM	NM	NM	NI	NM	9.72
11/02/13	7.08	14.94	13.65	14.69	NI	14.40	14.95	13.75	NI	13.32	10.04
11/16/13	NM	NM	13.82	14.73	NI	14.43	NM	NM	NI	NM	10.64
06/06/15	6.79	11.71	10.41	11.22	NI	10.56	11.80	10.54	NI	10.05	6.99
09/22/15	7.24	14.42	13.05	Abandoned	14.32	Abandoned	Abandoned	Abandoned	14.55	12.87	9.41
07/14/16	NM	NM	10.80	Abandoned	12.01	Abandoned	Abandoned	Abandoned	NM	NM	7.32
10/10/16	NM	NM	12.08	Abandoned	13.35	Abandoned	Abandoned	Abandoned	NM	NM	NM
10/29/16	NM	NM	12.61	Abandoned	13.98	Abandoned	Abandoned	Abandoned	NM	NM	9.00
04/08/17	NM	NM	NM	Abandoned	11.18	Abandoned	Abandoned	Abandoned	NM	NM	6.54
04/22/17	NM	NM	8.64	Abandoned	9.80	Abandoned	Abandoned	Abandoned	NM	NM	5.45
04/29/17	NM	NM	8.88	Abandoned	10.06	Abandoned	Abandoned	Abandoned	NM	NM	5.56
05/30/17	NM	NM	9.40	Abandoned	10.44	Abandoned	Abandoned	Abandoned	NM	NM	6.08
06/24/17	NM	NM	NM	Abandoned	11.16	Abandoned	Abandoned	Abandoned	NM	NM	6.80
08/28/17	NM	NM	11.64	Abandoned	13.01	Abandoned	Abandoned	Abandoned	NM	NM	8.16
10/17/17	NM	NM	12.40	Abandoned	13.60	Abandoned	Abandoned	Abandoned	NM	NM	8.80
10/28/17	NM	NM	12.56	Abandoned	13.78	Abandoned	Abandoned	Abandoned	NM	NM	8.99
03/13/18	NM	NM	12.16	Abandoned	14.32	Abandoned	Abandoned	Abandoned	NM	NM	9.50
04/14/18	NM	NM	10.16	Abandoned	11.40	Abandoned	Abandoned	Abandoned	NM	NM	6.56
06/10/18	NM	NM	NM	Abandoned	12.24	Abandoned	Abandoned	Abandoned	NM	NM	7.64
07/22/18	NM	NM	11.10	Abandoned	12.30	Abandoned	Abandoned	Abandoned	NM	NM	7.60
08/31/18	NM	NM	12.54	Abandoned	13.29	Abandoned	Abandoned	Abandoned	NM	NM	9.16
06/10/19	7.26	11.66	11.05	Abandoned	12.25	Abandoned	Abandoned	Abandoned	12.51	10.25	7.50
07/18/19	NM	NM	11.30	Abandoned	12.51	Abandoned	Abandoned	Abandoned	NM	NM	7.74
05/15/20	NM	NM	10.24	Abandoned	11.24	Abandoned	Abandoned	Abandoned	NM	NM	6.50
06/11/20	6.40	10.56	9.32	Abandoned	10.48	Abandoned	Abandoned	Abandoned	10.57	9.16	6.00

Groundwater Elevation (feet)	**B10**	**B11**	**B12**	**B13**	**B13R**	**B13a**	**B18**	**B19**	**B19R**	**B20**	**B21**
01/07/90	86.67	81.31	80.65	79.28	NI	80.98	Dry	Dry	NI	Dry	NI
04/03/90	88.72	82.67	82.01	83.39	NI	82.24	82.69	82.74	NI	82.17	NI
06/21/90	89.46	84.74	84.03	85.50	NI	84.31	84.73	84.76	NI	84.20	NI
10/28/90	89.39	84.57	83.83	85.27	NI	84.10	84.55	84.55	NI	84.03	NI
02/10/91	88.50	83.58	82.94	84.31	NI	83.16	83.44	83.60	NI	83.04	NI
04/21/91	89.90	87.86	87.10	88.61	NI	87.42	87.71	87.82	NI	87.39	NI
08/11/91	88.76	85.86	85.00	86.39	NI	85.32	85.73	85.79	NI	85.20	NI
11/29/91	88.94	86.05	85.19	86.57	NI	85.45	85.87	85.97	NI	85.39	NI
02/29/92	88.20	85.66	84.69	86.32	NI	85.13	85.48	85.62	NI	85.06	NI
05/03/92	89.72	88.82	87.87	89.46	NI	88.24	88.54	88.63	NI	88.21	NI
07/18/92	88.51	86.15	85.24	86.77	NI	85.59	85.99	86.05	NI	85.46	NI
10/31/92	89.00	85.86	85.04	86.41	NI	85.33	85.60	85.79	NI	85.22	NI
02/01/93	89.07	86.74	85.77	87.28	NI	86.03	86.51	86.46	NI	85.98	NI
06/10/93	90.20	89.23	88.35	89.99	NI	88.74	88.99	89.08	NI	88.66	NI
09/30/93	89.02	86.30	85.75	87.30	NI	85.98	86.33	86.57	NI	86.14	NI
12/15/93	88.74	85.88	85.19	86.72	NI	85.51	85.84	86.00	NI	85.55	NI
02/19/94	89.00	86.12	85.29	86.83	NI	85.63	86.09	86.16	NI	85.71	NI
07/15/94	88.89	85.49	84.62	86.08	NI	84.87	85.29	85.48	NI	84.92	NI
09/30/94	89.08	85.91	84.99	86.53	NI	85.28	85.74	85.92	NI	85.39	NI
12/12/94	89.38	85.51	84.62	86.14	NI	84.98	85.43	85.55	NI	85.01	NI
07/15/95	88.66	85.84	84.99	86.53	NI	85.32	85.77	85.81	NI	85.22	NI
09/14/95	NM	NM	84.43	85.93	NI	NM	NM	98.31	NI	NM	NI
11/15/95	89.07	87.05	86.14	87.61	NI	86.33	86.81	86.76	NI	86.35	NI
12/18/95	NM	NM	85.74	87.13	NI	85.94	NM	98.31	NI	NM	NI
08/17/96	89.19	83.77	83.04	84.43	NI	83.27	83.74	83.80	NI	83.17	NI
07/04/97	88.94	85.37	84.53	85.89	NI	84.84	85.31	85.27	NI	84.75	NI
08/17/98	88.81	85.91	85.24	86.57	NI	85.26	85.81	86.06	NI	85.41	NI
08/06/99	88.99	85.97	85.09	86.42	NI	85.34	85.85	86.03	NI	85.51	NI
08/15/00	88.61	85.72	84.69	86.26	NI	85.16	85.68	85.74	NI	85.12	NI
07/22/01	89.98	88.01	87.38	88.84	NI	87.60	87.76	87.94	NI	87.60	NI
07/14/02	88.81	86.77	86.18	87.73	NI	86.52	86.68	86.90	NI	86.44	NI
08/02/03	88.81	85.67	84.59	86.15	NI	84.80	86.39	84.82	NI	85.00	NI
07/15/04	NM	NM	86.50	88.09	NI	NM	NM	NM	NI	NM	85.90
08/17/04	NM	NM	85.03	86.50	NI	NM	NM	NM	NI	NM	84.56
09/04/04	88.54	85.71	84.68	86.14	NI	85.00	85.66	85.39	NI	84.84	84.22
12/30/04	NM	NM	84.22	85.73	NI	NM	NM	NM	NI	NM	83.84
03/26/05	NM	NM	83.44	84.62	NI	83.66	NM	NM	NI	NM	82.74
06/05/05	NM	85.38	85.54	87.04	NI	85.80	NM	85.30	NI	84.73	85.24
06/30/05	88.91	NM	84.44	85.93	NI	84.77	85.33	NM	NI	NM	84.02
08/13/05	NM	NM	NM	NM	NI	NM	NM	NM	NI	NM	82.45
10/29/05	NM	NM	82.39	83.89	NI	82.57	NM	NM	NI	NM	82.14
02/28/06	NM	NM	NM	NM	NI	NM	NM	NM	NI	NM	82.52
04/02/06	NM	NM	NM	NM	NI	NM	NM	NM	NI	NM	84.48
05/07/06	NM	NM	NM	NM	NI	NM	NM	NM	NI	NM	84.83
06/18/06	88.18	85.98	84.84	86.24	NI	84.98	NM	85.30	NI	84.96	84.27
07/22/06	NM	NM	NM	84.48	NI	NM	NM	NM	NI	NM	82.87
08/20/06	NM	NM	NM	84.43	NI	NM	NM	NM	NI	NM	83.07
10/29/06	NM	NM	82.89	84.24	NI	82.98	NM	NM	NI	NM	82.47
06/09/07	89.63	84.72	84.05	85.34	NI	83.99	84.23	84.56	NI	84.24	83.63
07/21/08	89.40	86.96	86.34	87.85	NI	86.58	87.03	87.30	NI	86.71	86.00
11/22/08	NM	NM	82.89	84.56	NI	NM	NM	NM	NI	NM	82.65
04/18/09	NM	NM	82.79	84.48	NI	83.09	NM	NM	NI	NM	82.60
05/25/09	NM	NM	84.14	85.90	NI	84.43	NM	NM	NI	NM	83.88
06/14/09	NM	NM	84.20	85.83	NI	84.42	NM	NM	NI	NM	83.92
08/09/09	NM	NM	NM	83.62	NI	82.25	NM	NM	NI	NM	NM
08/15/09	88.74	NM	82.06	83.60	NI	82.33	82.33	82.37	NI	81.73	81.63
03/21/10	NM	NM	83.55	84.90	NI	83.73	NM	NM	NI	NM	83.44
04/18/10	NM	NM	83.73	85.10	NI	83.84	NM	NM	NI	NM	83.30
06/10/10	88.50	83.58	83.05	84.38	NI	83.00	83.44	83.60	NI	83.04	82.68
06/20/10	NM	NM	83.54	84.88	NI	83.51	NM	NM	NI	NM	83.24
07/24/10	NM	NM	84.27	85.50	NI	84.38	NM	NM	NI	NM	83.61
09/04/10	NM	NM	83.64	85.03	NI	83.65	NM	NM	NI	NM	83.33

Groundwater Elevation (feet)	**B10**	**B11**	**B12**	**B13**	**B13R**	**B13a**	**B18**	**B19**	**B19R**	**B20**	**B21**
10/02/10	NM	NM	84.94	86.28	NI	NM	NM	NM	NI	NM	83.91
11/20/10	NM	NM	84.72	86.19	NI	84.96	NM	NM	NI	NM	84.40
05/07/11	NM	NM	88.15	89.74	NI	88.36	NM	NM	NI	NM	87.47
05/28/11	NM	NM	87.54	89.18	NI	NM	NM	NM	NI	NM	NM
06/26/11	NM	NM	86.56	89.74	NI	86.83	NM	NM	NI	NM	84.75
08/07/11	88.39	85.97	85.33	87.02	NI	85.64	86.07	86.17	NI	85.65	83.52
09/24/11	NM	NM	84.23	85.74	NI	84.52	NM	NM	NI	NM	83.60
10/15/11	NM	NM	84.63	86.10	NI	85.09	NM	NM	NI	NM	84.28
11/20/11	NM	NM	84.46	85.91	NI	NM	NM	NM	NI	NM	84.08
01/08/12	NM	NM	84.30	85.82	NI	NM	NM	NM	NI	NM	83.77
03/24/12	NM	NM	85.66	87.26	NI	85.92	NM	NM	NI	NM	85.40
05/04/12	NM	NM	86.22	87.73	NI	NM	NM	NM	NI	NM	85.92
07/07/12	NM	NM	84.83	86.38	NI	85.19	NM	NM	NI	NM	84.48
08/11/12	NM	NM	83.69	85.23	NI	83.99	NM	NM	NI	NM	83.40
10/20/12	85.93	NM	82.04	83.40	NI	82.28	82.69	82.71	NI	82.19	81.68
06/02/13	NM	NM	87.23	88.78	NI	87.28	NM	NM	NI	NM	86.48
06/22/13	NM	NM	NM	88.58	NI	NM	NM	NM	NI	NM	86.32
09/07/13	NM	NM	84.04	85.58	NI	NM	NM	NM	NI	NM	83.76
11/02/13	89.45	84.72	83.89	85.29	NI	83.68	84.23	84.56	NI	84.24	83.44
11/16/13	NM	NM	83.72	85.25	NI	83.65	NM	NM	NI	NM	82.84
06/06/15	89.85	88.06	87.23	87.79	NI	87.67	87.81	87.58	NI	87.65	86.68
09/22/15	89.40	85.35	84.59	Abandoned	84.96	Abandoned	NM	Abandoned	84.89	84.83	84.26
07/14/16	NM	NM	86.84	Abandoned	87.27	Abandoned	NM	Abandoned	NM	NM	86.35
10/10/16	NM	NM	85.56	Abandoned	85.93	Abandoned	NM	Abandoned	NM	NM	NM
10/29/16	NM	NM	85.03	Abandoned	85.30	Abandoned	NM	Abandoned	NM	NM	84.67
04/08/17	NM	NM	NM	Abandoned	88.10	Abandoned	NM	Abandoned	NM	NM	87.13
04/22/17	NM	NM	89.00	Abandoned	89.48	Abandoned	NM	Abandoned	NM	NM	88.22
04/29/17	NM	NM	88.76	Abandoned	89.22	Abandoned	NM	Abandoned	NM	NM	88.11
05/30/17	NM	NM	88.24	Abandoned	88.84	Abandoned	NM	Abandoned	NM	NM	87.59
06/24/17	NM	NM	NM	Abandoned	88.12	Abandoned	NM	Abandoned	NM	NM	86.87
08/28/17	NM	NM	86.00	Abandoned	86.27	Abandoned	NM	Abandoned	NM	NM	85.51
10/17/17	NM	NM	85.24	Abandoned	85.68	Abandoned	NM	Abandoned	NM	NM	84.87
10/28/17	NM	NM	85.08	Abandoned	85.50	Abandoned	NM	Abandoned	NM	NM	84.68
03/13/18	NM	NM	85.48	Abandoned	84.96	Abandoned	NM	Abandoned	NM	NM	84.17
04/14/18	NM	NM	87.48	Abandoned	87.88	Abandoned	NM	Abandoned	NM	NM	87.11
06/10/18	NM	NM	NM	Abandoned	87.04	Abandoned	NM	Abandoned	NM	NM	86.03
07/22/18	NM	NM	86.54	Abandoned	86.98	Abandoned	NM	Abandoned	NM	NM	86.07
08/31/18	NM	NM	85.10	Abandoned	85.99	Abandoned	NM	Abandoned	NM	NM	84.51
06/10/19	89.38	88.11	86.59	Abandoned	87.03	Abandoned	NM	Abandoned	86.93	87.45	86.17
07/18/19	NM	NM	86.34	Abandoned	86.77	Abandoned	NM	Abandoned	NM	NM	85.93
05/15/20	NM	NM	87.40	Abandoned	88.04	Abandoned	NM	Abandoned	NM	NM	87.17
06/11/20	90.24	89.21	88.32	Abandoned	88.80	Abandoned	NM	Abandoned	88.87	88.54	87.67

NI - Not Installed
NM - Not Measured

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

W PRIVATE WELL

UTM GRID AND 1982 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

BIRNAMWOOD, WIS.
NW/4 WITTENBERG 15' QUADRANGLE
N4452.5–W8907.5/7.5

1982
REI Engineering, INC.

DRAWING FILE: P:\6600-6699\6663-TOWN OF ANIWA - ARSENIC SITE\DWG\6663-VICN.DWG LAYOUT: VICN PLOTTED: Nov 12, 2020 - 10:44AM PLOTTED BY: CHASEK

TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

FIGURE 1 : LOCATION MAP

PROJECT NO.	DRAWN BY:	DATE:
6663	CJK	11/12/2020

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

LEGEND

0 200

SCALE: 1" = 200'

PRIVATE WELL

N

REI Engineering, INC.

TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW RAILROAD
TOWN OF ANIWA, SHAWANO COUNTY, WI

FIGURE 2A : SITE MAP OVERVIEW

PROJECT NO.	DRAWN BY:	DATE:
6663	CJK	11/13/2020

DRAWING FILE: P:\6600-6699\6663-TOWN OF ANIWA - ARSENIC SITE\DWG\6663-SITE.DWG LAYOUT: SO PLOTTED: Nov 16, 2020 - 1:12PM PLOTTED BY: MATTM

SED/SW-01-0615
SED/SW-03-0915

SED/SW-01-0615
SED/SW-03-0915

2020-B24

B3-19

S-12

S-18

S-24

B2-19

B1-19

2020-B13

B4-19

B-10

2020-B23

B-13R (ABANDONED)
B-13 (ABANDONED)
B-13A

S-6

S-11

S-17

S-23

07B-1

B12-19

2020-B14

B-17

B5-19

S-5

12B-1

S-10

S-16

S-22

07B-8

ORIGINAL SHED FOUNDATION

2020-B15

B-16

B-20

07B-4

B-13

12B-5

2015 EXCAVATION EXTENTS

B-18 (ABANDONED)

S-0

S-4

S-9

S-21

B11-19

B-11

B6-19

B-15

07B-6

B-18

07B-3

S-1

B-13A

12B-3

12B-4

SHED

BURIAL PIT

2020-B16

S-3

12B-2

B-14

12B-3A

S-20

B7-19

S-8

07B-5

S-14

2020-B18

B-19

B10-19

B-12

S-7

S-13

2020-B22

07B-7

B8-19

B9-19

S-19

B-19 (ABANDONED)
B-19R

2020-B21

2020-B19

2020-B20

LEGEND

0 20
SCALE: 1" = 20'

- PROPERTY BOUNDARY
- 2015 EXCAVATION EXTENTS
- 2019 SOIL BORING
- 2020 SOIL BORING
- SEDIMENT/SURFACE WATER SAMPLE
- ABANDONED MONITORING WELL
- SURFICIAL SOIL SAMPLE
- MONITORING WELL
- 2012 GEOPROBE SOIL BORING
- 2007 GEOPROBE SOIL BORING
- 94 EXISTING GROUND CONTOUR

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW R
TOWN OF ANIWA, SHAWANO COUNTY,

FIGURE 2B : DETAILED SITE MAP

PROJECT No.	DRAWN BY:	DATE:
6663	CJK	11/12/2020

REI Engineering, INC.

DRAWING FILE: P:\6600-6699\6663-TOWN OF ANIWA - ARSENIC SITE\DWG\6663-SITE.DWG LAYOUT: FIGURE 2B PLOTTED: Nov 16, 2020 - 1:13PM PLOTTED BY: MATTM

XRF-A'0
SS-14
2020-B24
B3-19
B2-19
B1-19
2020-B13
B4-19
SS-01
2020-B23
SS-02
SS-03
B12-19
2020-B14
SS-06
B5-19
SS-05
SS-04
2020-B15
SS-07
XRF-D2/D3
SS-11
B11-19
SS-08
XRF-A'4
B6-19
SS-12
SS-09
SS-13
2020-B16
SS-10
B7-19
XRF-A'5
XRF-D4
SS-14
B10-19
2020-B18
XRF-B5
XRF-C5
2020-B22
B8-19
XRF-A6
B9-19
XRF-B6
2020-B21
2020-B19
XRF-C6
2020-B20

2015 EXCAVATION EXTENTS

LEGEND

0 20
SCALE: 1" = 20'

- PROPERTY BOUNDARY
- 2015 EXCAVATION EXTENTS
- 2019 SOIL BORING
- 2020 SOIL BORING
- TETRA TECH SAMPLE LOCATION
- RESIDUAL ARSENIC ABOVE BACKGROUND THRESHOLD VALUE (8 MG/KG)

N

REI Engineering, INC.

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEAR CHICAGO & NW R
TOWN OF ANIWA, SHAWANO COUNTY,

FIGURE 3 : AREA OF EXCAVATION AND RESIDUAL CONTAMINATION

PROJECT No.	DRAWN BY:	DATE:
6663	CJK	11/13/2020

DRAWING FILE: P:\6600-6699\6663-Town of Aniwa - Arsenic Site\dwg\6663-Site.dwg LAYOUT: Figure 3 PLOTTED: Nov 16, 2020 - 3:00pm PLOTTED BY: MattM

DRAWING FILE: P:\6600-6699\6663-TOWN OF ANIWA - ARSENIC SITE\DWG\6663-GW-CONTAM.DWG LAYOUT: 6.10.19 PLOTTED: Nov 16, 2020 - 2:02PM PLOTTED BY: MATTM

2020-B24
S-12
S-18
S-24
B3-19
B2-19
B1-19
2020-B13
B4-19
B-10
2020-B23
S-6
S-11
S-17
ND
S-23
07B-1
B12-19
2020-B14
89.5
89
B-17
B5-19
S-5
12B-1
S-10
S-16
ND
S-22
07B-8
4,970
2020-B15
B-16
B-20
07B-4
B-13
12B-5
S-21
B11-19
88.5
S-0
S-4
S-9
B-15
B-11
07B-6
B6-19
B-18
07B-3
S-1
B-13A
12B-3
12B-4
ND
2020-B16
S-3
12B-2
B-14
12B-3A
S-20
B7-19
S-8
ND
07B-5
S-14
230
2020-B18
B-19
B10-19
B-12
S-7
S-13
88.5
S-19
2020-B22
07B-7
B8-19
B9-19
2020-B21
2020-B19
88
2020-B20
B-21
41.4

LEGEND

0 20

SCALE: 1" = 20'

- GROUNDWATER FLOW DIRECTION
- 41.4 ARSENIC CONCENTRATION (µG/L)
- ARSENIC NRI40 ES - 10 µG/L
- GROUNDWATER CONTOUR LINE
- PROPERTY BOUNDARY
- 2019 SOIL BORING
- 2020 SOIL BORING
- SOIL BORING
- SURFICIAL SOIL SAMPLE
- MONITORING WELL
- 2012 GEOPROBE SOIL BORING
- 2007 GEOPROBE SOIL BORING

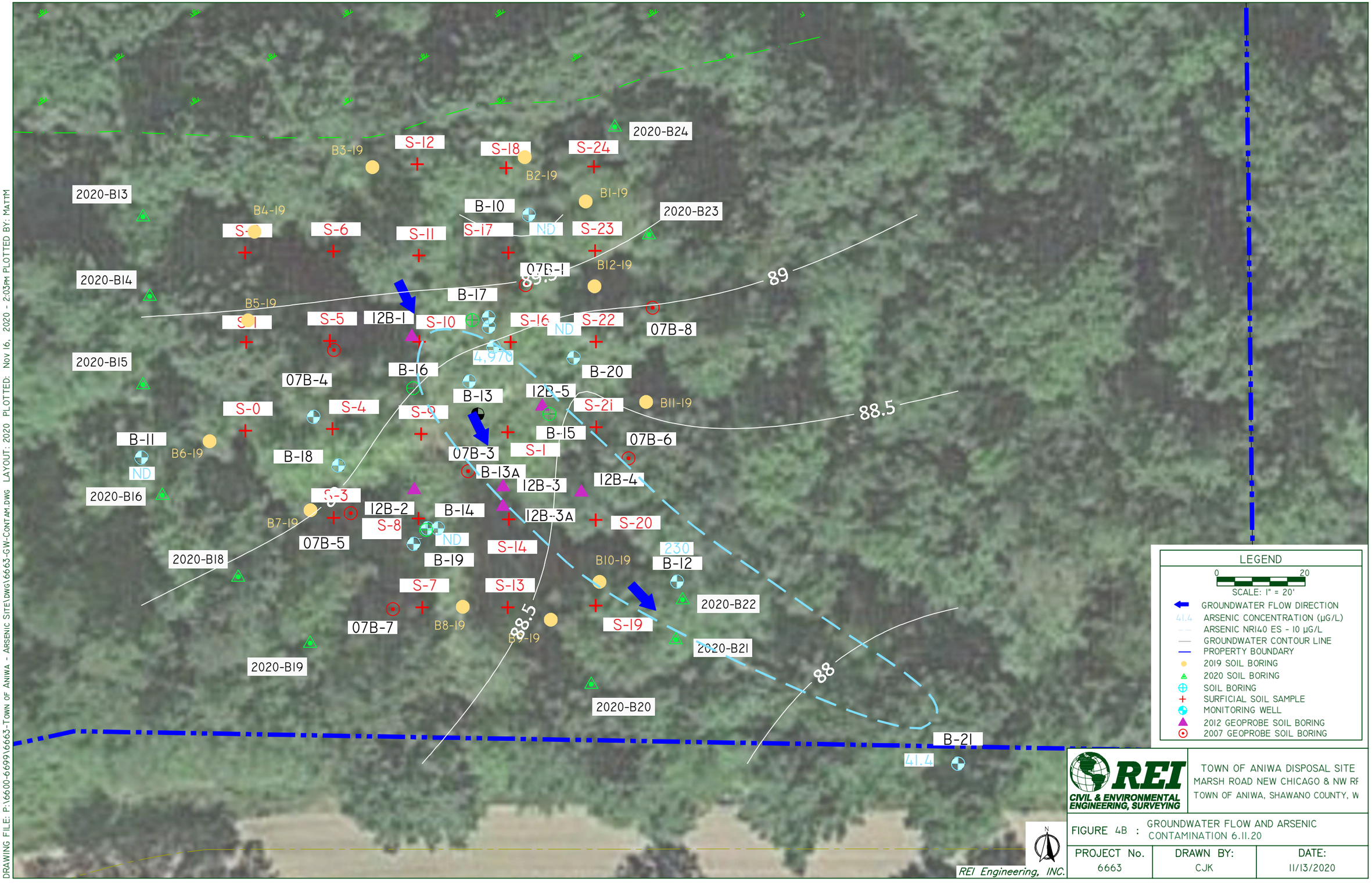
REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEW CHICAGO & NW RF
TOWN OF ANIWA, SHAWANO COUNTY, W

FIGURE 4A : GROUNDWATER FLOW AND ARSENIC CONTAMINATION 6.10.19

PROJECT No.	DRAWN BY:	DATE:
6663	CJK	11/13/2020

REI Engineering, INC.



LEGEND

0 20

SCALE: 1" = 20'

- GROUNDWATER FLOW DIRECTION
- 41.4 ARSENIC CONCENTRATION (µG/L)
- ARSENIC NRI40 ES - 10 µG/L
- GROUNDWATER CONTOUR LINE
- PROPERTY BOUNDARY
- 2019 SOIL BORING
- 2020 SOIL BORING
- SOIL BORING
- SURFICIAL SOIL SAMPLE
- MONITORING WELL
- 2012 GEOPROBE SOIL BORING
- 2007 GEOPROBE SOIL BORING

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

TOWN OF ANIWA DISPOSAL SITE
MARSH ROAD NEW CHICAGO & NW RF
TOWN OF ANIWA, SHAWANO COUNTY, W

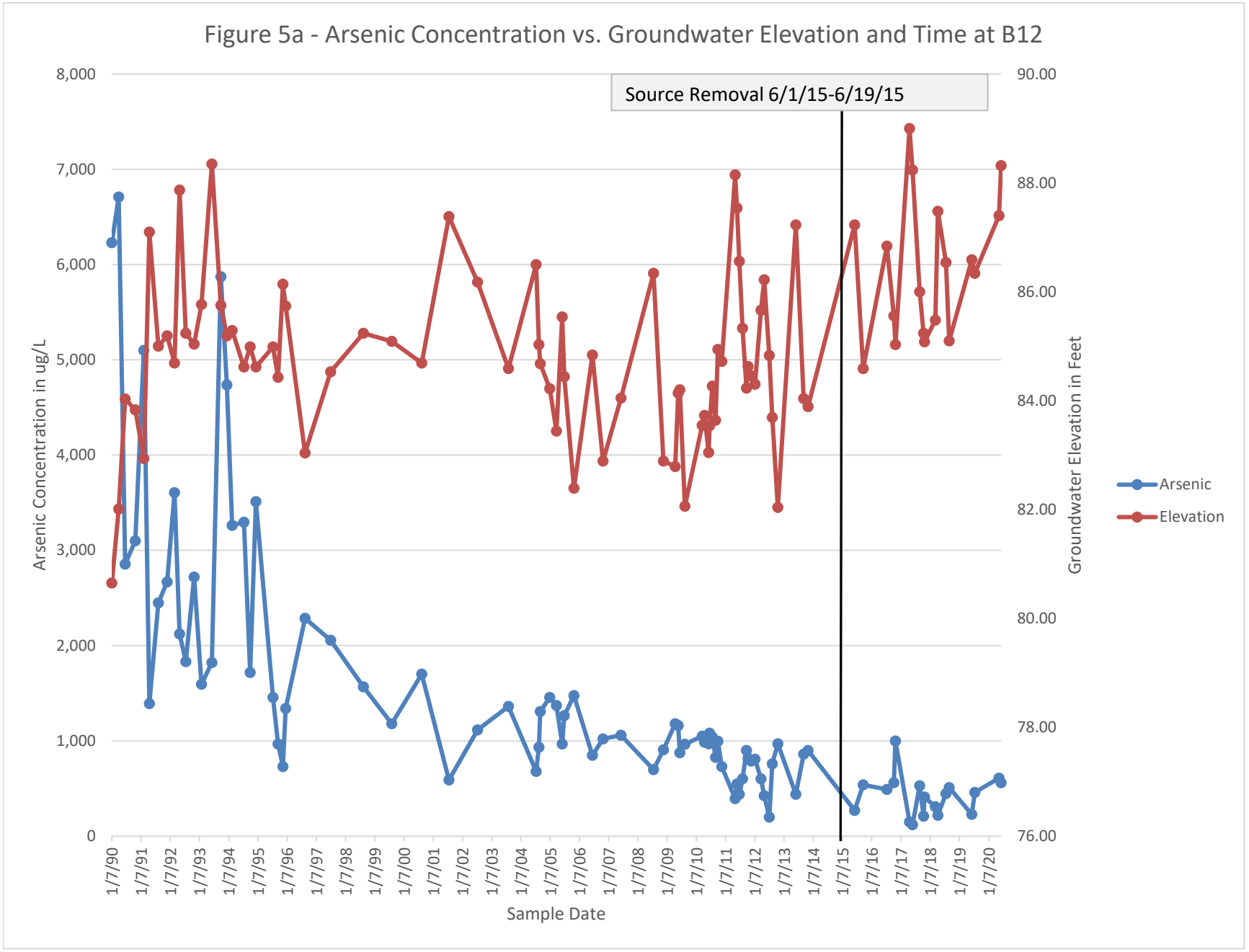
FIGURE 4B : GROUNDWATER FLOW AND ARSENIC CONTAMINATION 6.11.20

PROJECT No.	DRAWN BY:	DATE:
6663	CJK	11/13/2020

REI Engineering, INC.

DRAWING FILE: P:\6600-6699\6663-TOWN OF ANIWA - ARSENIC SITE\DWG\6663-GW-CONTAM.DWG LAYOUT: 2020 PLOTTED: Nov 16, 2020 - 2:03PM PLOTTED BY: MATTM

Figure 5a - Arsenic Concentration vs. Groundwater Elevation and Time at B12



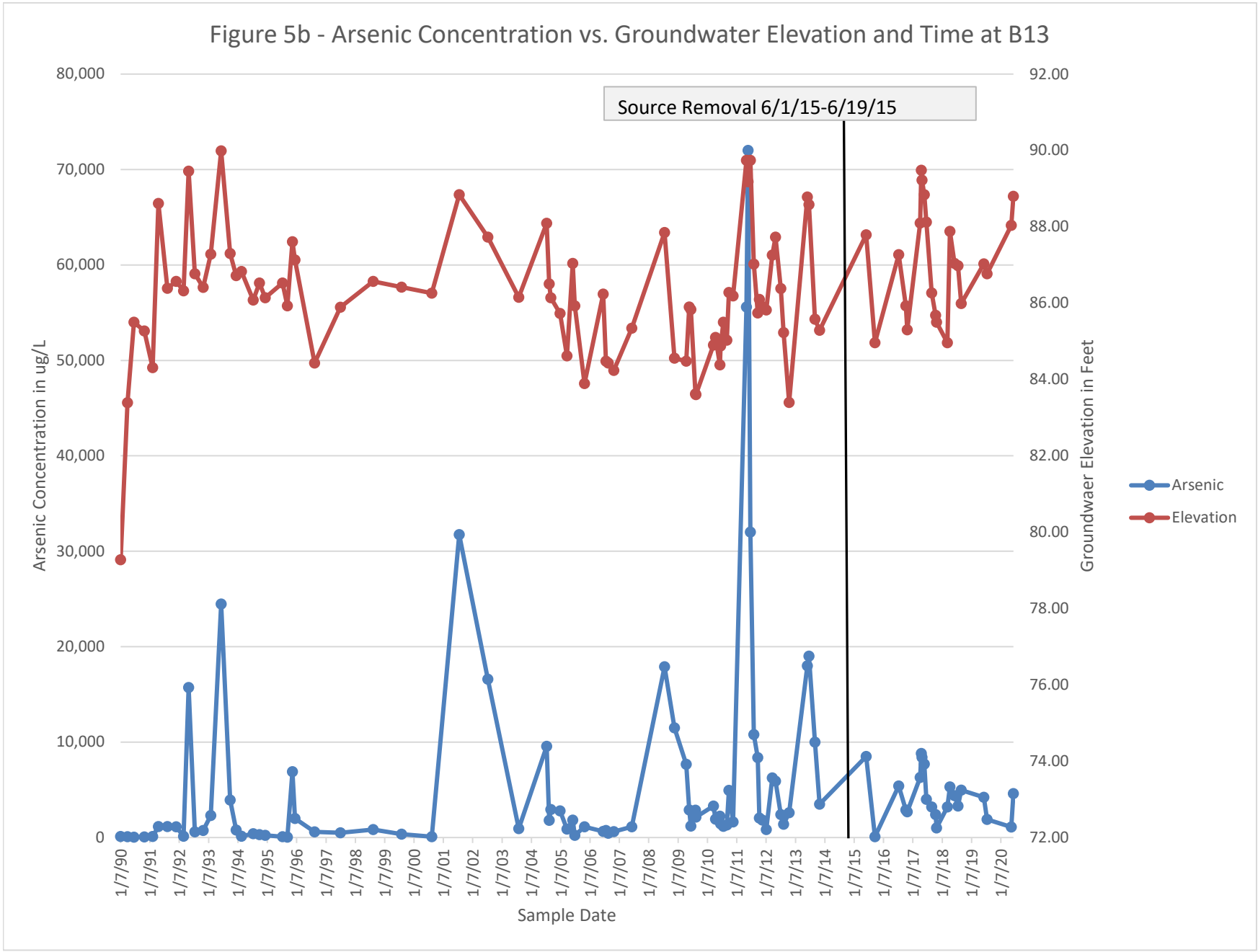
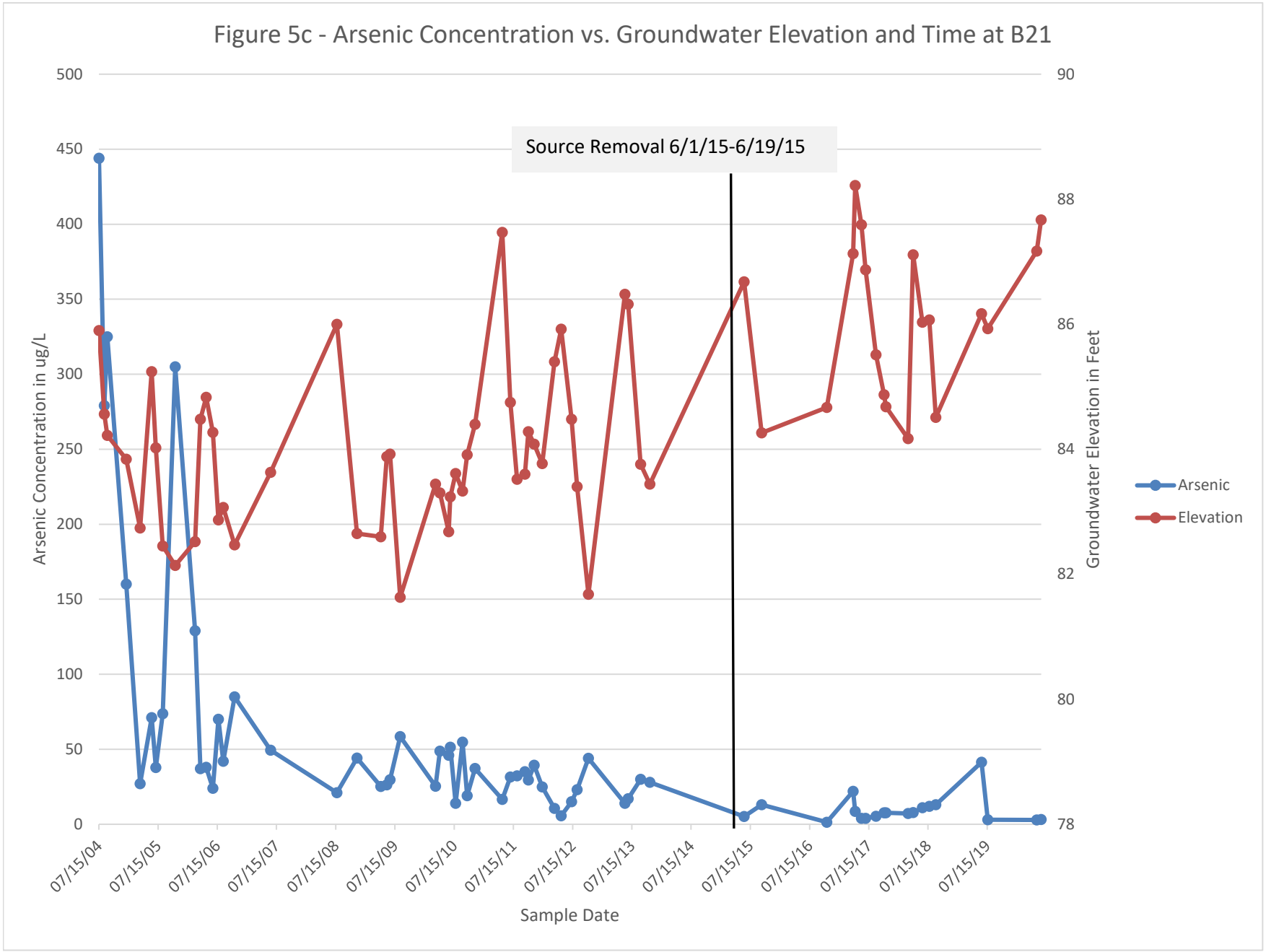


Figure 5b - Arsenic Concentration vs. Groundwater Elevation and Time at B13
Source Removal 6/1/15-6/19/15
Arsenic Concentration in ug/L
Groundwaer Elevation in Feet
Sample Date
Arsenic
Elevation
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
92.00
90.00
88.00
86.00
84.00
82.00
80.00
78.00
76.00
74.00
72.00
1/7/90
1/7/91
1/7/92
1/7/93
1/7/94
1/7/95
1/7/96
1/7/97
1/7/98
1/7/99
1/7/00
1/7/01
1/7/02
1/7/03
1/7/04
1/7/05
1/7/06
1/7/07
1/7/08
1/7/09
1/7/10
1/7/11
1/7/12
1/7/13
1/7/14
1/7/15
1/7/16
1/7/17
1/7/18
1/7/19
1/7/20

Figure 5c - Arsenic Concentration vs. Groundwater Elevation and Time at B21



APPENDIX A

GROUNDWATER ANALYTICAL REPORTS

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

NLS Project: 347298
NLS Customer: 104168

Client: Township of Aniwa
Attn: Warren Hohn
1201 Lake St
Merrill, WI 54452

Fax: 715 536 1277 Phone: 715 551 9080

Project: Aniwa Arsenic DWP

B-12 NLS ID: 1196111
COC: 243344:1 Matrix: GW
Collected: 05/15/20 11:09 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	670	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-13r NLS ID: 1196112
COC: 243344:2 Matrix: GW
Collected: 05/15/20 11:45 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	1900	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-13r dupl NLS ID: 1196113
COC: 243344:3 Matrix: GW
Collected: 05/15/20 11:50 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	1900	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-21 NLS ID: 1196114
COC: 243344:4 Matrix: GW
Collected: 05/15/20 11:00 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	[2.8]	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

Timm Well NLS ID: 1196115
COC: 243344:5 Matrix: GW
Collected: 05/15/20 10:45 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	[3.4]	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-10 NLS ID: 1196116
COC: 243344:6 Matrix: GW
Collected: 06/11/20 14:15 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	ND	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-11 NLS ID: 1196117
COC: 243344:7 Matrix: GW
Collected: 06/11/20 14:30 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	ND	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

NLS Project: 347298
NLS Customer: 104168

Fax: 715 536 1277 Phone: 715 551 9080

Client: Township of Aniwa
Attn: Warren Hohn
1201 Lake St
Merrill, WI 54452

Project: Aniwa Arsenic DWP

B-12 NLS ID: 1196118
COC: 243344:8 Matrix: GW
Collected: 06/11/20 15:45 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	560	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-13R NLS ID: 1196119
COC: 243344:9 Matrix: GW
Collected: 06/11/20 17:05 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	1100	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-13 dupl NLS ID: 1196120
COC: 243344:10 Matrix: GW
Collected: 06/11/20 17:20 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	1200	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-19 NLS ID: 1196121
COC: 243345:1 Matrix: GW
Collected: 06/11/20 15:05 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	ND	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-20 NLS ID: 1196122
COC: 243345:2 Matrix: GW
Collected: 06/11/20 15:20 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	ND	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

B-21 NLS ID: 1196123
COC: 243345:3 Matrix: GW
Collected: 06/11/20 16:00 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	[5.2]	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

Blank NLS ID: 1196124
COC: 243345:4 Matrix: GW
Collected: 06/11/20 18:00 Received: 06/30/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	ND	ug/L	1	2.6	8.6	07/05/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					07/04/20	EPA 200.8, Rev 5.4	721026460

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

NLS Project: 347298
NLS Customer: 104168

Fax: 715 536 1277 Phone: 715 551 9080

Client: Township of Aniwa
Attn: Warren Hohn
1201 Lake St
Merrill, WI 54452

Project: Aniwa Arsenic DWP

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:

Authorized by:
R. T. Krueger
President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

NO. 243344

CLIENT	Town of Aniwa
ADDRESS	PO Box 52
CITY / STATE / ZIP	Birnamwood / Wi / 54414
PROJECT DESCRIPTION / NO.	Aniwa Arsenic DWP
QUOTATION NO.	
DNR FID #	
DNR LICENSE #	
CONTACT	
PHONE	
PURCHASE ORDER NO.	
FAX	

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS: Dissolved Arsenic	COLLECTION REMARKS (i.e. DNR Well ID #)
1.	196111	B-12	5-15-20	11:09AM	GW	X	Preserved w HNO3 + Filtered
2.	112	B-13r	5-15-20	11:45AM	GW	X	
3.	113	B-13r dupL	5-15-20	11:50AM	GW	X	
4.	114	B-21	5-15-20	11:00AM	GW	X	
5.	115	Timm Well	5-15-20	10:45AM	DW	X	
6.	116	B-10	6-1-20	2:15PM	GW	X	
7.	117	B-11	6-1-20	2:30PM	GW	X	
8.	118	B-12	6-1-20	3:45PM	GW	X	
9.	119	B-13R	6-1-20	5:05PM	GW	X	
10.	120	B-13 dupL	6-1-20	5:20PM	GW	X	

COLLECTED BY (signature) Warren A. Hahn	CUSTODY SEAL NO. (IF ANY)	DATE/TIME 6-1-20 6:00pm
RELINQUISHED BY (signature) Warren A. Hahn	RECEIVED BY (signature)	DATE/TIME
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME

REPORT TO
Warren Hahn
1201 Lake St
Merrill, WI 54452
warrenhahn4919@gmail.com

INVOICE TO
Town of Aniwa
PO Box 52
Birnamwood, WI
54452

RECEIVED AT NLS BY (signature) Ally Pearce	DATE/TIME 6/30/20 1415	CONDITION OK onice	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
	WDNR FACILITY NUMBER	E-MAIL ADDRESS	

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Rev. 7/20/15

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

NO. 243345

CLIENT	Town of Anwa
ADDRESS	PO Box 52
CITY / STATE / ZIP	Brnamwood WI 54414
PROJECT DESCRIPTION / NO.	QUOTATION NO.
DNR FID #	DNR LICENSE #
CONTACT	PHONE
PURCHASE ORDER NO.	FAX

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

ANALYZE PER ORDER OF ANALYSIS

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX (See above)	Diss. Arsenic										COLLECTION REMARKS (i.e. DNR Well ID #)
1.	121	B-19	6-11-20	3:05 PM	GW	X										
2.	122	B-20	6-11-20	3:20 PM	GW	X										
3.	123	B-21	6-11-20	4:00 PM	GW	X										
4.	124	Blank	6-11-20	6:00 PM	GW	X										
5.																
6.																
7.																
8.																
9.																
10.																

Preserved w/ HNO_3 + Filtered

ONE SAMPLE PER LINE

COLLECTED BY (signature) Warren A. Hohn	CUSTODY SEAL NO. (IF ANY)	DATE/TIME 6-11-20 6:00PM
RELINQUISHED BY (signature) Warren A Hohn	RECEIVED BY (signature)	DATE/TIME
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME

REPORT TO
Warren Hohn
1201 Lake St
Merrill WI
54452

RECEIVED AT NLS BY (signature) Wendy Pane	DATE/TIME 6/30/20 1415	CONDITION OK on ice	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
	WDNR FACILITY NUMBER	E-MAIL ADDRESS	

INVOICE TO
Town of Anwa
c/o Tammy Resch
PO Box 52
Brnamwood, WI 54414

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Rev. 7/20/15

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

NLS Project: 349121
NLS Customer: 104168

Client: **Township of Aniwa**
Attn: Warren Hohn
1201 Lake St
Merrill, WI 54452

Fax: 715 536 1277 Phone: 715 551 9080

Project: Arsenic Dump

B-13R NLS ID: 1201796
COC: 242634:1 Matrix: GW
Collected: 07/06/20 10:10 Received: 07/24/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	4900	ug/L	1	2.6	8.6	08/11/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					08/08/20	EPA 200.8, Rev 5.4	721026460

B-13R Dup 1 NLS ID: 1201797
COC: 242634:2 Matrix: GW
Collected: 07/06/20 10:30 Received: 07/24/20

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Arsenic, dis. as As by ICP-MS	4600	ug/L	1	2.6	8.6	08/11/20	EPA 200.8, Rev 5.4	721026460
Metals digestion - dissolved ICP-MS	yes					08/08/20	EPA 200.8, Rev 5.4	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.
ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:

Authorized by:
R. T. Krueger
President

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

NO. 242634

CLIENT	Town of Aniwa (c/o Tammy Resch)
ADDRESS	PO Box 52/N10485 Cherry Rd.
CITY / STATE / ZIP	Bitnamwood, WI 54414 715-449-
PROJECT DESCRIPTION / NO.	Arsenic Dump
QUOTATION NO.	2351
DNR PID #	
DNR LICENSE #	
CONTACT	Warren Hohn
PHONE	715-551-9080
PURCHASE ORDER NO.	
FAX	

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX (See above)		Diss Arsenic	Diss. Arsenic										COLLECTION REMARKS (i.e. DNR Well ID #)
1	201796	B-13R	7-6-20	10:10AM	GW	G	Grab											
2.	7971	B-13 Dupl	7-6-20	10:30AM	GW	Grab												
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

COLLECTED BY (signature) Warren A. Hohn	CUSTODY SEAL NO. (IF ANY)	DATE/TIME 7/23/20 12:00
RELINQUISHED BY (signature) Warren A. Hohn	RECEIVED BY (signature)	DATE/TIME 7/23/20 2:00 PM
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME

REPORT TO
Warren Hohn
W-H Soil Testing
1201 Lake St
Merrill, WI 54452

INVOICE TO
Town of Aniwa
PO Box 52
Bitnamwood, WI
54414

RECEIVED AT NLS BY (signature) Willy Lee	DATE/TIME 7/24/20 9	CONDITION OK	TEMP.
COOLER #	REMARKS & OTHER INFORMATION Preserved w/ HNO_3		
	WDNR FACILITY NUMBER	E-MAIL ADDRESS warrenhohn4919@gmail.com	

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

IMPORTANT

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Rev. 7/20/15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 30, 2019

Warren Hohn
Township of Aniwa
1205 Lake Street
Merrill, WI 54452

RE: Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Dear Warren Hohn:
Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

SAMPLE SUMMARY

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40191380001	**B-10-19**	Water	06/10/19 08:30	07/17/19 09:18
40191380002	**B-11-19**	Water	06/10/19 09:20	07/17/19 09:18
40191380003	**B-12-19**	Water	06/10/19 09:50	07/17/19 09:18
40191380004	**B-13R-19**	Water	06/10/19 10:14	07/17/19 09:18
40191380005	**B-19R-19**	Water	06/10/19 09:00	07/17/19 09:18
40191380006	**B-13R-DUP1-19**	Water	06/10/19 10:20	07/17/19 09:18
40191380007	**B-20-19**	Water	06/10/19 08:40	07/17/19 09:18
40191380008	**B-21-19**	Water	06/10/19 09:35	07/17/19 09:18
40191380009	**B-12-19 (2)**	Water	07/08/19 09:30	07/17/19 09:18
40191380010	**B-13R-19 (2)**	Water	07/08/19 10:00	07/17/19 09:18
40191380011	**B-21-19 (2)**	Water	07/08/19 09:00	07/17/19 09:18
40191380012	**BLANK**	Water	06/10/19 11:00	07/17/19 09:18
40191380013	**TIMM WELL**	Water	06/10/19 11:45	07/17/19 09:18

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SAMPLE ANALYTE COUNT

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40191380001	**B-10-19**	EPA 6020	DS1	2	PASI-G
40191380002	**B-11-19**	EPA 6020	DS1	2	PASI-G
40191380003	**B-12-19**	EPA 6020	DS1	2	PASI-G
40191380004	**B-13R-19**	EPA 6020	DS1	2	PASI-G
40191380005	**B-19R-19**	EPA 6020	DS1	2	PASI-G
40191380006	**B-13R-DUP1-19**	EPA 6020	DS1	2	PASI-G
40191380007	**B-20-19**	EPA 6020	DS1	2	PASI-G
40191380008	**B-21-19**	EPA 6020	DS1	2	PASI-G
40191380009	**B-12-19 (2)**	EPA 6020	DS1	1	PASI-G
40191380010	**B-13R-19 (2)**	EPA 6020	DS1	1	PASI-G
40191380011	**B-21-19 (2)**	EPA 6020	DS1	1	PASI-G
40191380012	**BLANK**	EPA 6020	DS1	2	PASI-G
40191380013	**TIMM WELL**	EPA 200.8	CAW	2	PASI-I

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ANALYTICAL RESULTS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Sample: B-10-19 **Lab ID: 40191380001** Collected: 06/10/19 08:30 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**1.1**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 07:29	7440-38-2	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 07:29	7439-92-1	

Sample: B-11-19 **Lab ID: 40191380002** Collected: 06/10/19 09:20 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**0.28J**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 07:50	7440-38-2	
Lead, Dissolved	**1.4**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 07:50	7439-92-1	

Sample: B-12-19 **Lab ID: 40191380003** Collected: 06/10/19 09:50 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**230**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 07:57	7440-38-2	
Lead, Dissolved	**1.2**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 07:57	7439-92-1	

Sample: B-13R-19 **Lab ID: 40191380004** Collected: 06/10/19 10:14 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**4970**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:03	7440-38-2	
Lead, Dissolved	**0.27J**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 08:03	7439-92-1	

Sample: B-19R-19 **Lab ID: 40191380005** Collected: 06/10/19 09:00 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**2.0**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:10	7440-38-2	
Lead, Dissolved	**0.31J**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 08:10	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Sample: B-13R-DUP1-19 **Lab ID: 40191380006** Collected: 06/10/19 10:20 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**4850**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:17	7440-38-2	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 08:17	7439-92-1	

Sample: B-20-19 **Lab ID: 40191380007** Collected: 06/10/19 08:40 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**1.3**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:24	7440-38-2	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 08:24	7439-92-1	

Sample: B-21-19 **Lab ID: 40191380008** Collected: 06/10/19 09:35 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**41.4**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:31	7440-38-2	
Lead, Dissolved	**11.7**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 08:31	7439-92-1	

Sample: B-12-19 (2) **Lab ID: 40191380009** Collected: 07/08/19 09:30 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**460**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:37	7440-38-2	

Sample: B-13R-19 (2) **Lab ID: 40191380010** Collected: 07/08/19 10:00 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**4230**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:44	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Sample: B-21-19 (2) **Lab ID: 40191380011** Collected: 07/08/19 09:00 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**5.0**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 08:51	7440-38-2	

Sample: BLANK **Lab ID: 40191380012** Collected: 06/10/19 11:00 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	**<0.28**	ug/L	1.0	0.28	1	07/22/19 08:37	07/27/19 09:11	7440-38-2	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	07/22/19 08:37	07/27/19 09:11	7439-92-1	

Sample: TIMM WELL **Lab ID: 40191380013** Collected: 06/10/19 11:45 Received: 07/17/19 09:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Arsenic	**3.4**	ug/L	0.52	0.16	1	07/24/19 09:07	07/25/19 00:38	7440-38-2	N2
Lead	**1.3**	ug/L	0.36	0.11	1	07/24/19 09:07	07/25/19 00:38	7439-92-1	N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

QC Batch: 512255 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 40191380013

METHOD BLANK: 2363464 Matrix: Water
Associated Lab Samples: 40191380013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.16	0.52	07/24/19 22:46	N2
Lead	ug/L	<0.11	0.36	07/24/19 22:46	N2

LABORATORY CONTROL SAMPLE: 2363465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	39.7	99	85-115	N2
Lead	ug/L	40	39.4	99	85-115	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2363466 2363467

Parameter	Units	40191449001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	1.2	40	40	42.4	42.6	103	104	70-130	1	20	N2
Lead	ug/L	0.16J	40	40	40.7	41.0	101	102	70-130	1	20	N2

MATRIX SPIKE SAMPLE: 2364369

Parameter	Units	40191529005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.1	40	42.8	104	70-130	N2
Lead	ug/L	0.21J	40	40.8	102	70-130	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

QC Batch: 328195 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40191380001, 40191380002, 40191380003, 40191380004, 40191380005, 40191380006, 40191380007, 40191380008, 40191380009, 40191380010, 40191380011, 40191380012

METHOD BLANK: 1905829 Matrix: Water
Associated Lab Samples: 40191380001, 40191380002, 40191380003, 40191380004, 40191380005, 40191380006, 40191380007, 40191380008, 40191380009, 40191380010, 40191380011, 40191380012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	07/27/19 06:28	
Lead, Dissolved	ug/L	<0.24	1.0	07/27/19 06:28	

LABORATORY CONTROL SAMPLE: 1905830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	487	97	80-120	
Lead, Dissolved	ug/L	500	479	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1905831 1905832

Parameter	Units	40191402001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	<0.28	500	500	483	493	97	99	75-125	2	20	
Lead, Dissolved	ug/L	<0.24	500	500	477	486	95	97	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-I	Pace Analytical Services - Indianapolis

SAMPLE QUALIFIERS

Sample: 40191380013

[1]	200.8 DW reported as Dissolved As/Pb 200.8. MED 7/23/19

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191380

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40191380013	**TIMM WELL**	EPA 200.8	512255	EPA 200.8	512789
40191380001	**B-10-19**	EPA 3010	328195	EPA 6020	328309
40191380002	**B-11-19**	EPA 3010	328195	EPA 6020	328309
40191380003	**B-12-19**	EPA 3010	328195	EPA 6020	328309
40191380004	**B-13R-19**	EPA 3010	328195	EPA 6020	328309
40191380005	**B-19R-19**	EPA 3010	328195	EPA 6020	328309
40191380006	**B-13R-DUP1-19**	EPA 3010	328195	EPA 6020	328309
40191380007	**B-20-19**	EPA 3010	328195	EPA 6020	328309
40191380008	**B-21-19**	EPA 3010	328195	EPA 6020	328309
40191380009	**B-12-19 (2)**	EPA 3010	328195	EPA 6020	328309
40191380010	**B-13R-19 (2)**	EPA 3010	328195	EPA 6020	328309
40191380011	**B-21-19 (2)**	EPA 3010	328195	EPA 6020	328309
40191380012	**BLANK**	EPA 3010	328195	EPA 6020	328309

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

4019380 Page 1 of

tammys email: tammy@reschinsurance.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TOWN OF ANIWA
Branch/Location:	1201 Lake St, Merrill WI
Project Contact:	Warren Hohn
Phone:	715-551-9080
Project Number:	c/o Laurie Woelfel
Project Name:	Aniwa Arsenic Dump
Project State:	WISCONSIN
Sampled By (Print):	Warren Hohn
Sampled By (Sign):	Warren Hohn
PO #:	Regulatory Program: WDNR

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO) Y/N	Diss. Arsenic	Pb - Lead
					Pick Letter	D	D
001	B-10-19	6-10-19	8:30 AM	GW		✓	✓
002	B-11-19	6-10-19	9:20	GW		✓	✓
003	B-12-19	6-10-19	9:50	GW		✓	✓
004	B-13r-19	6-10-19	10:20	GW		✓	✓
005	B-19r-19	6-10-19	9:00	GW		✓	✓
006	B-13r-dupl-19	6-10-19	10:20	GW		✓	✓
007	B-20-19	6-10-19	8:40	GW		✓	✓
008	B-21-19	6-10-19	9:35	GW		✓	✓
009	B-12-19 (2)	7-8-19	9:30	GW		✓	
010	B-13r-19 (2)	7-8-19	10:00	GW		✓	
011	B-21-19 (2)	7-8-19	9:00	GW		✓	
012	Blank	6-10-19	11:00	GW		✓	✓
013	Timm Well	6-10-19	11:45	DW		✓	✓

Quote #:	
Mail To Contact:	Warren Hohn
Mail To Company:	wh soil testing
Mail To Address:	1201 Lake St Merrill, WI 54452
Invoice To Contact:	~~Bow~~
Invoice To Company:	TOWN OF ANIWA
Invoice To Address:	Tammy Resch, Clerk PO Box 52 Birnamwood, WI 54414
Invoice To Phone:	

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 8-1-19

Transmit Prelim Rush Results by (complete what you want):

Email #1:	whohn testing@gmail.com
Email #2:	tammy@reschinsurance.com
Telephone:	715-551-9080
Fax:	715-536-1277

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Warren Hohn	7-16-19		
Fedex	7/17/19 0915	Dave Race	7/17/19 0915

PACE Project No.: 4019380
Receipt Temp = 5 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Town of Aniwa Project # 4019380

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A

Lab Lot# of pH paper: 10US0891 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: DMP Date/ Time:

	Glass							Plastic							Vials						Jars			General								
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001													✓																		✓		2.5 / 5 / 10
002													✓																		✓		2.5 / 5 / 10
003													✓																		✓		2.5 / 5 / 10
004													✓																		✓		2.5 / 5 / 10
005													✓																		✓		2.5 / 5 / 10
006													✓																		✓		2.5 / 5 / 10
007													✓																		✓		2.5 / 5 / 10
008													✓																		✓		2.5 / 5 / 10
009													✓																		✓		2.5 / 5 / 10
010													✓																		✓		2.5 / 5 / 10
011													✓																		✓		2.5 / 5 / 10
012													✓																		✓		2.5 / 5 / 10
013													✓																		✓		2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40191380

Client Name: Town of Pniwa

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: 110362861688

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used SR-24 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 /Corr: 5

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 7/6/19
Initials: DS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. paystt DS 7/10/19
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. no time DS 7/10/19
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8. all bottles half full DS 7/10/19
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	DS 7/10/19 ☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. 009 to 011 no "(2)" matched by time DS 7/10/19
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 7/17/19

APPENDIX B

SOIL ANALYTICAL REPORTS

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ARSENIC DUMP
Pace Project No.: 40212233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40212233001	**B-13 10:00 AM**	Solid	06/11/20 10:00	08/04/20 09:50
40212233002	**B-14 10:15 AM**	Solid	06/11/20 10:15	08/04/20 09:50
40212233003	**B-15 10:35 AM**	Solid	06/11/20 10:35	08/04/20 09:50
40212233004	**B-16 11:00 AM**	Solid	06/11/20 11:00	08/04/20 09:50
40212233005	**B-18 11:20 AM**	Solid	06/11/20 11:20	08/04/20 09:50
40212233006	**B-19 11:36 AM**	Solid	06/11/20 11:36	08/04/20 09:50
40212233007	**B-20 12:05 PM**	Solid	06/11/20 12:05	08/04/20 09:50
40212233008	**B-21 1:00 PM**	Solid	06/11/20 13:00	08/04/20 09:50
40212233009	**B-22 1:30 PM**	Solid	06/11/20 13:30	08/04/20 09:50
40212233010	**B-23 2:05 PM**	Solid	06/11/20 14:05	08/04/20 09:50
40212233011	**B-24 2:15 PM**	Solid	06/11/20 14:15	08/04/20 09:50

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ARSENIC DUMP
Pace Project No.: 40212233

Sample: B-13 10:00 AM **Lab ID: 40212233001** Collected: 06/11/20 10:00 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**2.6J**	mg/kg	5.8	1.7	1	08/11/20 06:34	08/11/20 17:43	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**19.5**	%	0.10	0.10	1		08/14/20 16:17		

Sample: B-14 10:15 AM **Lab ID: 40212233002** Collected: 06/11/20 10:15 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**4.9J**	mg/kg	5.9	1.8	1	08/11/20 06:34	08/11/20 17:45	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**20.1**	%	0.10	0.10	1		08/14/20 16:17		

Sample: B-15 10:35 AM **Lab ID: 40212233003** Collected: 06/11/20 10:35 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**<1.7**	mg/kg	5.6	1.7	1	08/11/20 06:34	08/11/20 17:48	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**18.8**	%	0.10	0.10	1		08/14/20 16:17		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ARSENIC DUMP
Pace Project No.: 40212233

Sample: B-16 11:00 AM **Lab ID: 40212233004** Collected: 06/11/20 11:00 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**3.8J**	mg/kg	5.6	1.7	1	08/11/20 06:34	08/11/20 17:50	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**16.4**	%	0.10	0.10	1		08/14/20 16:17		

Sample: B-18 11:20 AM **Lab ID: 40212233005** Collected: 06/11/20 11:20 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**2.2J**	mg/kg	5.8	1.7	1	08/11/20 06:34	08/11/20 17:53	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**17.4**	%	0.10	0.10	1		08/14/20 16:17		

Sample: B-19 11:36 AM **Lab ID: 40212233006** Collected: 06/11/20 11:36 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**<1.7**	mg/kg	5.8	1.7	1	08/11/20 06:34	08/11/20 17:55	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**16.8**	%	0.10	0.10	1		08/14/20 16:17		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ARSENIC DUMP
Pace Project No.: 40212233

Sample: B-20 12:05 PM **Lab ID: 40212233007** Collected: 06/11/20 12:05 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**2.3J**	mg/kg	6.4	1.9	1	08/11/20 06:34	08/11/20 17:57	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**28.8**	%	0.10	0.10	1		08/14/20 16:17		

Sample: B-21 1:00 PM **Lab ID: 40212233008** Collected: 06/11/20 13:00 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**<1.7**	mg/kg	5.7	1.7	1	08/11/20 06:34	08/11/20 18:00	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**17.7**	%	0.10	0.10	1		08/14/20 16:17		

Sample: B-22 1:30 PM **Lab ID: 40212233009** Collected: 06/11/20 13:30 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**4.4J**	mg/kg	5.7	1.7	1	08/11/20 06:34	08/11/20 18:02	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**20.2**	%	0.10	0.10	1		08/14/20 16:17		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ARSENIC DUMP
Pace Project No.: 40212233

Sample: B-23 2:05 PM **Lab ID: 40212233010** Collected: 06/11/20 14:05 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**<1.7**	mg/kg	5.8	1.7	1	08/11/20 06:34	08/11/20 18:05	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**20.8**	%	0.10	0.10	1		08/14/20 16:17		

Sample: B-24 2:15 PM **Lab ID: 40212233011** Collected: 06/11/20 14:15 Received: 08/04/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Arsenic	**<1.7**	mg/kg	5.5	1.7	1	08/11/20 06:34	08/11/20 18:12	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**19.0**	%	0.10	0.10	1		08/14/20 16:17		

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 30, 2019

Warren Hohn
Township of Aniwa
1205 Lake Street
Merrill, WI 54452

RE: Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Dear Warren Hohn:
Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40191381001	**B-1-19**	Solid	06/18/19 09:30	07/17/19 09:15
40191381002	**B-2-19**	Solid	06/18/19 09:05	07/17/19 09:15
40191381003	**B-3-19**	Solid	06/18/19 08:45	07/17/19 09:15
40191381004	**B-4-19**	Solid	06/18/19 09:50	07/17/19 09:15
40191381005	**B-5-19**	Solid	06/18/19 10:10	07/17/19 09:15
40191381006	**B-6-19**	Solid	06/18/19 10:05	07/17/19 09:15
40191381007	**B-7-19**	Solid	06/18/19 10:40	07/17/19 09:15
40191381008	**B-8-19**	Solid	06/18/19 11:05	07/17/19 09:15
40191381009	**B-9-19**	Solid	06/18/19 11:20	07/17/19 09:15
40191381010	**B-10-19**	Solid	06/18/19 12:04	07/17/19 09:15
40191381011	**B-11-19**	Solid	06/18/19 12:20	07/17/19 09:15
40191381012	**B-12-19**	Solid	06/18/19 12:45	07/17/19 09:15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40191381001	**B-1-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381002	**B-2-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381003	**B-3-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381004	**B-4-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381005	**B-5-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381006	**B-6-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381007	**B-7-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381008	**B-8-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381009	**B-9-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381010	**B-10-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381011	**B-11-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G
40191381012	**B-12-19**	EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	JEV	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Sample: B-1-19 **Lab ID: 40191381001** Collected: 06/18/19 09:30 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**12.2**	mg/kg	6.3	1.3	1	07/22/19 09:12	07/25/19 17:33	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.4**	%	0.10	0.10	1		07/17/19 18:03		

Sample: B-2-19 **Lab ID: 40191381002** Collected: 06/18/19 09:05 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.4**	mg/kg	6.7	1.4	1	07/22/19 09:12	07/25/19 17:40	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.9**	%	0.10	0.10	1		07/17/19 18:03		

Sample: B-3-19 **Lab ID: 40191381003** Collected: 06/18/19 08:45 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.6J**	mg/kg	6.5	1.4	1	07/22/19 09:12	07/25/19 17:43	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.5**	%	0.10	0.10	1		07/17/19 18:04		

Sample: B-4-19 **Lab ID: 40191381004** Collected: 06/18/19 09:50 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**38.1**	mg/kg	6.3	1.3	1	07/22/19 09:12	07/25/19 17:45	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.0**	%	0.10	0.10	1		07/17/19 18:04		

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Sample: B-5-19 **Lab ID: 40191381005** Collected: 06/18/19 10:10 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.2J**	mg/kg	5.9	1.2	1	07/22/19 09:12	07/25/19 17:48	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.7**	%	0.10	0.10	1		07/17/19 18:04		

Sample: B-6-19 **Lab ID: 40191381006** Collected: 06/18/19 10:05 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**27.5**	mg/kg	6.2	1.3	1	07/22/19 09:12	07/25/19 17:50	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.8**	%	0.10	0.10	1		07/17/19 18:04		

Sample: B-7-19 **Lab ID: 40191381007** Collected: 06/18/19 10:40 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**31.6**	mg/kg	6.5	1.4	1	07/22/19 09:12	07/25/19 17:52	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.0**	%	0.10	0.10	1		07/17/19 18:04		

Sample: B-8-19 **Lab ID: 40191381008** Collected: 06/18/19 11:05 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.2**	mg/kg	5.9	1.2	1	07/22/19 09:12	07/25/19 17:55	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.2**	%	0.10	0.10	1		07/17/19 18:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Sample: B-9-19 **Lab ID: 40191381009** Collected: 06/18/19 11:20 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**30.6**	mg/kg	6.9	1.4	1	07/22/19 09:12	07/25/19 18:02	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**27.5**	%	0.10	0.10	1		07/17/19 18:04		

Sample: B-10-19 **Lab ID: 40191381010** Collected: 06/18/19 12:04 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**2.3J**	mg/kg	5.7	1.2	1	07/22/19 09:12	07/25/19 18:05	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.6**	%	0.10	0.10	1		07/17/19 18:05		

Sample: B-11-19 **Lab ID: 40191381011** Collected: 06/18/19 12:20 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**2.5J**	mg/kg	6.4	1.3	1	07/22/19 09:12	07/25/19 18:07	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.1**	%	0.10	0.10	1		07/17/19 18:05		

Sample: B-12-19 **Lab ID: 40191381012** Collected: 06/18/19 12:45 Received: 07/17/19 09:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**1.9J**	mg/kg	6.3	1.3	1	07/22/19 09:12	07/25/19 18:10	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.5**	%	0.10	0.10	1		07/17/19 18:05		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

QC Batch: 327937 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40191381001, 40191381002, 40191381003, 40191381004, 40191381005, 40191381006, 40191381007, 40191381008, 40191381009, 40191381010, 40191381011, 40191381012

METHOD BLANK: 1903938 Matrix: Solid
Associated Lab Samples: 40191381001, 40191381002, 40191381003, 40191381004, 40191381005, 40191381006, 40191381007, 40191381008, 40191381009, 40191381010, 40191381011, 40191381012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	07/25/19 17:23	

LABORATORY CONTROL SAMPLE: 1903939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1903940 1903941

Parameter	Units	40191381001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	12.2	63.5	63.2	70.5	66.6	92	86	75-125	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

QC Batch: 327867 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40191381001, 40191381002, 40191381003, 40191381004, 40191381005, 40191381006, 40191381007, 40191381008, 40191381009, 40191381010, 40191381011, 40191381012

SAMPLE DUPLICATE: 1903772

Parameter	Units	40191381005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	21.1	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ANIWA ARSENIC DUMP
Pace Project No.: 40191381

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40191381001	**B-1-19**	EPA 3050	327937	EPA 6010	328517
40191381002	**B-2-19**	EPA 3050	327937	EPA 6010	328517
40191381003	**B-3-19**	EPA 3050	327937	EPA 6010	328517
40191381004	**B-4-19**	EPA 3050	327937	EPA 6010	328517
40191381005	**B-5-19**	EPA 3050	327937	EPA 6010	328517
40191381006	**B-6-19**	EPA 3050	327937	EPA 6010	328517
40191381007	**B-7-19**	EPA 3050	327937	EPA 6010	328517
40191381008	**B-8-19**	EPA 3050	327937	EPA 6010	328517
40191381009	**B-9-19**	EPA 3050	327937	EPA 6010	328517
40191381010	**B-10-19**	EPA 3050	327937	EPA 6010	328517
40191381011	**B-11-19**	EPA 3050	327937	EPA 6010	328517
40191381012	**B-12-19**	EPA 3050	327937	EPA 6010	328517
40191381001	**B-1-19**	ASTM D2974-87	327867		
40191381002	**B-2-19**	ASTM D2974-87	327867		
40191381003	**B-3-19**	ASTM D2974-87	327867		
40191381004	**B-4-19**	ASTM D2974-87	327867		
40191381005	**B-5-19**	ASTM D2974-87	327867		
40191381006	**B-6-19**	ASTM D2974-87	327867		
40191381007	**B-7-19**	ASTM D2974-87	327867		
40191381008	**B-8-19**	ASTM D2974-87	327867		
40191381009	**B-9-19**	ASTM D2974-87	327867		
40191381010	**B-10-19**	ASTM D2974-87	327867		
40191381011	**B-11-19**	ASTM D2974-87	327867		
40191381012	**B-12-19**	ASTM D2974-87	327867		

4019381

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

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CHAIN OF CUSTODY

(Please Print Clearly)

Company Name:	Town of Aniwa
Branch/Location:	1201 Lake St, Merrill WI
Project Contact:	Warren Hohn
Phone:	715-551-9080
Project Number:	c/o Laurie Woeffel
Project Name:	Aniwa Arsenic Dump
Project State:	Wisconsin
Sampled By (Print):	Warren Hohn
Sampled By (Sign):	Warren Hohn
PO #:	
Regulatory Program:	WDNR

*Preservation Codes: A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO) — Y/N: Y
PRESERVATION (CODE)* — Pick Letter:

Quote #:	
Mail To Contact:	Warren Hohn
Mail To Company:	
Mail To Address:	1201 Lake St, Merrill, WI 54452
Invoice To Contact:	
Invoice To Company:	Town of Aniwa
Invoice To Address:	Tammy Resch, Treasurer PO Box 52 Birnamwood, WI 54414
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Analyses Requested: Arsenic

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Arsenic	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	B-1-19	6-18-19	9:30	S	✓			
002	B-2-19		9:05	S	✓			
003	B-3-19		8:45	S	✓			
004	B-4-19		9:50	S	✓			
005	B-5-19		10:10	S	✓			
006	B-6-19		10:05	S	✓			
007	B-7-19		10:40	S	✓			
008	B-8-19		11:05	S	✓			
009	B-9-19		11:20	S	✓			
010	B-10-19		12:04 PM	S	✓			
011	B-11-19		12:20 PM	S	✓			
012	B-12-19	↓	12:45 PM	S	✓			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 8-1-19

Transmit Prelim Rush Results by (complete what you want):
Email #1: whohntesting@gmail.com
Email #2:
Telephone: 715-551-9080
Fax: 715-536-1277

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Warren A. Hohn	7/16/19 1:30 PM		
FedEx	7/17/19 0915	[signature]	7/17/19 0915

PACE Project No. 4019381

Receipt Temp = 5 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Town of Ariwa Project # 4019381

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
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014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40191381

Client Name: Town of Ariwa

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 110362861688

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used SR-24 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 /Corr: 5

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 7/17/19
Initials: DS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. paysett 7/17/19
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: JLW **Date:** 7/17/19