November 24, 2023

John and Lynn Troka
N11 W31230 Bunker Hill
Delafield, Wisconsin 53018

Re: **Sample Results Notification – October 2023**
Sanitary Transfer and Landfill
3402 Kettle Court East
Delafield, Wisconsin 53018
BRRTS Case #02-26-000166
Terracon Project No. 58197097

Dear Mr. and Mrs. Troka:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On October 31, 2023, Terracon collected a groundwater sample from the potable well (11) on your property at N11 W31230 Bunker Hill, Delafield, Wisconsin. The sample was analyzed for volatile organic compounds (VOCs), metals, and several inorganic and field parameters. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective PALs. However, lead was detected at a concentration above its PAL but below its ES. Several inorganic parameters were detected but each parameter was below its respective ES. However, nitrate and chloride were detected slightly above their respective PALs. The PALs comprise a lower set of groundwater quality standards that serve as indicators of potential contamination and are below the ESs, which are based on the protection of public health and welfare. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at Gwen.Saliares@wisconsin.gov or contact at (920) 510-4343.

Sincerely,

Lucas P. Chabela
Senior Staff Geologist

LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\11\10.2023\5.23 OffisteNotificationLetter.N11W31230.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

N11 W31230 Bunker Hill (11)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/29/2010	1.4	<0.55	56.5	NS	<0.13	<0.26	79,100	1	17.6	NS	<1.4	NS	3.9	<2.1	55,200	<2.2	3.7	0.44	375	NS	NS	20.5	341	96.5	0.0073	--	--	--	6.95	912	13.5
9/20/2010	<3.1	<3.1	68	NS	<0.60	<0.60	83,000	<3.1	90	NS	3.1	36,000	<3.1	6.5	63,000	<0.60	41	0.7	300	NS	NS	NS	360	130	<0.0081	--	--	--	7.31	982	12.7
3/10/2011	<0.63	0.24	63	NS	<0.23	<0.12	85,000	<0.59	21	<11,000	1.3	39,000	4.4	<0.37	60,000	<0.36	4	0.44	300	NS	NS	21	380	110	0.02	--	--	--	7.3	927	12.05
9/29/2011	<0.63	0.29	66	NS	<0.23	<0.12	86,000	<0.59	57	<11,000	2.2	NS	5.6	0.44	60,000	<0.36	29	0.48	440	NS	NS	NS	370	100	<0.0011	--	--	--	7.28	925	12.1
11/21/2013	<2.0	<0.80	69	NS	<0.10	<0.30	92,500	<0.60	30.1	NS	5.6	44,100	5.5	<1.4	61,700	<2.5	6.8	<0.40	380	NS	NS	21	413	170	<5.0	--	--	--	NS	NS	NS
7/21/2014	<4.0	<1.0	63.5	NS	<0.23	<0.23	79,300	<1.9	8.8	NS	<1.3	33,600	6.3	<1.7	60,100	<4.0	4.6	<0.40	340	NS	NS	19	336	100	<5.0	--	--	--	7.8	1130	NS
5/6/2015	<4.0	<1.0	67.1	NS	NS	<0.23	86,600	<1.9	18.9	NS	<1.3	36,700	5.5	<1.7	53,800	<0.253	13.8	<40.0	330	NS	NS	22	367	130	<6.0	--	--	--	7.97	1290	9.4
5/5/2016	<0.60	<0.50	69.9	NS	<0.23	<0.23	91,600	<1.9	16.6	NS	<1.3	40,900	3.4	<1.2	75,900	<0.90	8.4	<0.14	370	NS	NS	20	397	200	<0.006	--	--	--	7.75	1480	9.6
10/20/2017	<0.60	<0.60	87.7	NS	<0.38	<0.40	90,900	<2.0	108	<59	4.8	40,000	7	<1.0	70,500	<0.19	120	<0.52	360	NS	NS	21	392	150	<0.0040	--	--	--	7.41	1050	10.9
4/27/2018	<0.60	0.66	85.1	NS	<0.38	<0.40	76,800	<2.0	80.9	<59	1.3	37,200	86.9	<1.0	57,900	<0.19	50.4	<0.23	360	NS	NS	19	345	<1.0	<0.0030	--	--	--	7.6	915	12.7
10/29/2018	<0.60	<0.60	77.5	NS	<0.38	<0.40	85,400	<2.0	<3.9	<59	<0.43	41,100	4.8	<1.0	63,300	<0.19	<2.2	0.31	360	NS	NS	18	382	120	<0.0030	--	--	--	7.5	983	11.3
4/28/2019	<0.60	<0.60	80.8	NS	<0.38	<0.40	86,200	<2.0	5.3	<59	<0.43	40,600	4.6	<1.0	66,600	<0.19	<2.2	1.1	350	NS	NS	18	382	130	<0.0030	--	--	--	7.45	955	12.4
10/28/2019	0.26	0.49	93.2	NS	<0.25	0.24	94,000	<1.0	6.2	<58.0	0.42	42,400	7.6	0.5	68,400	0.39	<10.3	0.61	347	3.7	<0.040	19.5	410	132	<0.0068	None	Clear	None	7.35	735	11.22
4/27/2020	<0.15	0.34	73.7	40.8	<0.25	<0.15	92,500	<1.0	14.2	<58.0	0.35	41,300	4.1	<0.32	72,000	<0.14	<10.3	0.34	317	3.9	<0.021	17.5	401	125	<0.0069	None	Clear	None	7.55	1,150	11.31
10/27/2020	<0.15	0.28	78.6	44.2	<0.25	<0.15	87,200	<1.0	16.9	<58.0	0.37	39,100	11.2	<0.32	68,300	<0.14	<10.3	0.35	346	3.6	0.083	19.4	379	119	<0.0069	None	Clear	None	7.67	888	12.01
5/4/2021	<0.15	<0.28	59.4	38.9	<0.25	<0.15	82,400	<1.0	9.9	<58.0	<0.24	35,300	5.8	0.35	59,100	<0.14	<10.3	0.25	338	4.1	<0.021	18.4	351	99.2	<0.0069	None	Clear	None	7.58	990	11.58
10/27/2021	<0.15	0.38	60.4	38.8	<0.25	<0.15	87,200	<1.0	15.5	<58.0	0.33	38,500	4.6	<0.32	58,200	<0.14	20.3	<0.21	341	3.7	<0.021	18.1	376	126	<0.0069	None	Clear	None	7.66	1,011	10.55
5/2/2022	<0.15	0.36	70.5	45.1	<0.25	<0.15	90,500	<1.0	26.2	<58.0	0.98	45,200	3.8	<0.32	65,200	<0.14	12.8	0.42	358	3.6	<0.021	19.9	412	141	<0.0069	None	Clear	None	7.44	999	9.91
10/26/2022	<0.15	0.6	84.0	39.5	<0.25	<0.15	101,000	<1.0	16.7	<58.0	<0.24	46,600	5.5	<0.32	84,300	<0.14	<10.3	0.23	345	3.2	<0.021	19.4	443	196	0.0070	none	Clear	None	--	--	--
4/27/2023	<0.15	0.35J	72.1	40.5	<0.25	<0.15	944,400	1.4J	59.6	<58.0	3.6	42,700	6.2	0.43	106,000	<0.14	<10.3	0.24J	347	3.6	<0.021	18.4	411	190	<0.0069	None	Clear	None	7.53	19	39.23
10/31/2023	<0.15	0.41J	85.6	49.8	<0.25	<0.15	93,900	<1.0	54.2	<58.0	2.1	45,300	8.5	0.62J	96,400	<0.14	<10.3	<0.21	362	3.8	<0.10	19.5	421	158	<0.0069	None	Clear	None	7.58	898	12.8
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**50**	--	**2**	**5,000**	--	--	**10**	**1**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023
XX.XX Exceeds NR 140 PAL
XX.XX Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 11 **Lab ID: 40270335003** Collected: 10/30/23 15:15 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 09:32	7440-36-0	
Arsenic	**0.41J**	ug/L	1.0	0.28	1	11/01/23 06:34	11/08/23 09:32	7440-38-2	
Barium	**85.6**	ug/L	2.3	0.70	1	11/01/23 06:34	11/08/23 09:32	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/01/23 06:34	11/09/23 14:02	7440-41-7	
Boron	**49.8**	ug/L	10.0	3.0	1	11/01/23 06:34	11/08/23 09:32	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 09:32	7440-43-9	
Calcium	**93900**	ug/L	254	76.2	1	11/01/23 06:34	11/08/23 09:32	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/01/23 06:34	11/08/23 09:32	7440-47-3	
Copper	**54.2**	ug/L	6.4	1.9	1	11/01/23 06:34	11/08/23 09:32	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	11/01/23 06:34	11/09/23 14:02	7439-89-6	
Lead	**2.1**	ug/L	1.0	0.24	1	11/01/23 06:34	11/09/23 14:02	7439-92-1	B
Magnesium	**45300**	ug/L	250	31.2	1	11/01/23 06:34	11/08/23 09:32	7439-95-4	
Manganese	**8.5**	ug/L	4.0	1.2	1	11/01/23 06:34	11/08/23 09:32	7439-96-5	
Selenium	**0.62J**	ug/L	1.1	0.32	1	11/01/23 06:34	11/08/23 09:32	7782-49-2	
Sodium	**96400**	ug/L	250	42.0	1	11/01/23 06:34	11/08/23 09:32	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/01/23 06:34	11/08/23 09:32	7440-28-0	
Total Hardness by 2340B	**421**	mg/L	1.7	0.32	1	11/01/23 06:34	11/08/23 09:32		
Zinc	**<10.3**	ug/L	34.4	10.3	1	11/01/23 06:34	11/08/23 09:32	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 21:33	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		11/03/23 21:33	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 21:33	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/23 21:33	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/23 21:33	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/23 21:33	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 21:33	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/23 21:33	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/23 21:33	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 21:33	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/23 21:33	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/23 21:33	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/23 21:33	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/23 21:33	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 21:33	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		11/03/23 21:33	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/23 21:33	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		11/03/23 21:33	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/23 21:33	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/23 21:33	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/23 21:33	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		11/03/23 21:33	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/23 21:33	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/23 21:33	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 11 **Lab ID: 40270335003** Collected: 10/30/23 15:15 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/23 21:33	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/23 21:33	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 21:33	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/23 21:33	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/23 21:33	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		11/03/23 21:33	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/23 21:33	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/23 21:33	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/23 21:33	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/23 21:33	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/23 21:33	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 21:33	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/23 21:33	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/23 21:33	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/23 21:33	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		11/03/23 21:33	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/23 21:33	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 21:33	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/23 21:33	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		11/03/23 21:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/23 21:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/03/23 21:33	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/03/23 21:33	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**158**	mg/L	10.0	3.0	5		10/31/23 21:20	16887-00-6	
Nitrate as N	**3.8**	mg/L	0.75	0.22	5		10/31/23 21:20	14797-55-8	
Nitrite as N	**<0.10**	mg/L	0.50	0.10	5		10/31/23 21:20	14797-65-0	D3
Sulfate	**19.5**	mg/L	10.0	2.2	5		10/31/23 21:20	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**362**	mg/L	25.0	7.4	1		11/08/23 07:31		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/23 10:30	11/07/23 14:36	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/07/23 20:36	11/08/23 01:30	7727-37-9	

REPORT OF LABORATORY ANALYSIS

November 24, 2023

Ward Gronewold
W311 N1052 Fairfield Way
Delafield, Wisconsin 53018

Re: **Sample Results Notification – October 2023**
Sanitary Transfer and Landfill
3402 Kettle Court East
Delafield, Wisconsin 53018
BRRTS Case #02-26-000166
Terracon Project No. 58197097

Dear Mr. Gronewold:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On October 31, 2023, Terracon collected a groundwater sample from the potable well (13) on your property at W311 N1052 Fairfield Way, Delafield, Wisconsin. The sample was analyzed for volatile organic compounds (VOCs), metals, and several inorganic and field parameters. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ESs. Several inorganic parameters were detected, but each parameter was below its respective ES. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares, P.G. via email at gwen.saliares@wisconsin.gov or contact at 920-510-4343.

Sincerely,

Lucas P. Chabela
Senior Staff Geologist

LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\13\10.2023\5.23 OffisteNotificationLetter.W311N1052.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

W311 N1052 Fairfield Way (13)	Metals (µg/L)																Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/29/2010	1.4	<0.55	69.9	NS	<0.13	<0.26	58,600	0.68	6.8	NS	<1.4	NS	1.7	<2.1	14,500	<2.2	10.9	1.6	366	NS	NS	39	282	12.7	<0.0061	--	--	--	7.03	578	13.2
9/20/2010	<3.1	<3.1	110	NS	<0.60	<0.60	64,000	<3.1	4.1	NS	<3.1	36,000	<3.1	<3.1	13,000	<0.60	<30	<0.35	310	NS	NS	NS	260	11	<0.0081	--	--	--	7.5	613	12.6
3/10/2011	<0.63	0.2	100	NS	<0.23	<0.12	43,000	<0.59	10	39	.49	NS	2.9	<0.37	11,000	<0.36	11	0.5	390	NS	NS	NS	280	NS	<0.0011	--	--	--	7.37	2012	NS
9/29/2011	<0.63	0.22	97	NS	<0.23	<0.12	55,000	<0.59	9.7	19	.71	41,000	1.3	<0.37	11,000	<0.36	17	0.26	NS	NS	NS	52	350	18	<0.0011	--	--	--	7.36	660	12
11/21/2013	<2.0	<0.80	76.1	NS	<0.10	<0.30	67,100	<0.60	81.8	NS	**17**	41,300	3.1	<1.4	14,100	<2.5	140	0.2	340	NS	NS	NS	338	22	<5.0	--	--	--	NS	NS	NS
7/21/2014	<4.0	<1	86.8	NS	<0.23	<0.23	71,100	<1.9	10.9	NS	2.8	37,700	2	<1.7	10,200	<4.0	10.1	<0.40	310	NS	NS	47	333	26	<5.0	--	--	--	7.8	840	NS
5/6/2015	NS	<1.0	85.3	NS	NS	<0.23	69,600	<1.9	23.8	NS	<1.3	28,200	2.7	<1.7	12,800	<0.253	15.1	<0.40	300	NS	NS	49	290	24	<6.0	--	--	--	7.99	840	10.1
5/5/2016	<4.0	<0.50	92.3	NS	<0.23	<0.23	65,00	<1.9	18.3	NS	<1.3	37,200	<1.4	<1.2	10,400	<0.90	7.3	0.15	330	NS	NS	40	315	26	<0.006	--	--	--	7.82	850	9.4
10/20/2017	<0.60	<0.60	88.7	NS	<0.38	<0.40	60,800	<2.0	115	**505**	7.7	36,700	6.1	<1.0	9,750	<0.19	113	<0.52	310	NS	NS	40	303	24	<0.0040	--	--	--	7.08	673	15.3
4/27/2018	<0.60	<0.60	105	NS	<0.38	<0.40	56,500	<2.0	13.5	<59	1.6	36,700	<2.2	<1.0	8,650	<0.19	8.3	<0.23	320	NS	NS	39	292	15	<0.0030	--	--	--	7.54	599	11.8
10/29/2018	<0.60	<0.60	110	NS	<0.38	<0.40	65,800	<2.0	9	69.4	<0.43	43,300	<2.2	<1.0	6,830	<0.19	<2.2	<0.23	300	NS	NS	34	343	16	<0.0030	--	--	--	7.19	409	12.1
4/28/2019	<0.60	<0.60	89.2	NS	<0.38	<0.40	66,900	<2.0	74.7	130	3.6	39,400	<2.2	<1.0	11,600	<0.19	15.4	<0.23	320	NS	NS	45	329	27	<0.0030	--	--	--	7.68	634	12.4
10/28/2019	0.38	0.35	72.2	NS	<0.25	<0.15	54,500	<1.0	6.0	68.4	0.41	35,900	2.9	<0.32	21,100	<0.14	15.4	0.43	296	0.42	<0.040	45.3	284	21.0	<0.0068	None	Clear	None	7.76	482	11.9
4/27/2020	<0.15	<0.28	79.0	246	<0.25	<0.15	48,500	<1.0	8.4	<58.0	0.60	40,100	2.2	<0.32	19,300	<0.14	11.6	<0.21	288	0.68	<0.021	47.7	286	24.2	<0.0069	None	Clear	None	7.67	501	11.31
10/27/2020	<0.15	<0.28	73.0	186	<0.25	<0.15	62,400	<1.0	38	59.6	4.3	38,900	1.5	<0.32	14,400	<0.14	22.7	<0.21	305	0.67	<0.021	50.7	316	26.9	<0.0069	None	Clear	None	7.88	601	12.15
5/4/2021	<0.15	<0.28	70.5	238	<0.25	<0.15	57,200	<1.0	8.8	60	0.28	37,600	2.1	<0.32	17,500	<0.14	<10.3	<0.21	312	0.54	<0.021	52.7	298	23.2	<0.0069	None	Clear	None	7.77	498	12.5
12/14/2021	<0.15	1.0	65.7	324	<0.25	<0.15	37,500	1.3	186	**3,540**	**121**	34,700	12.9	<0.32	21,400	<0.14	229	<0.21	316	0.45	<0.021	--	237	19.2	<0.0069	None	Clear	None	--	--	--
5/2/2022	<0.15	0.4	91.3	113	<0.25	<0.15	71,300	<1.0	10.5	<58.0	0.32	45,200	1.3	<0.32	11,500	<0.14	<10.3	<0.21	331	0.63	<0.021	49.3	364	23.9	<0.0069	None	Clear	None	7.33	800	12.1
10/26/2022	<0.15	<0.28	77.9	133	<0.25	<0.15	82,500	<1.0	170	124	0.95	40,300	4.2	<0.32	11,700	<0.14	<10.3	<0.21	320	0.60	<0.021	48.4	372	22.0	0.0077	None	Clear	None	--	--	--
4/27/2023	<0.15	0.36J	76.6	191	<0.25	<0.15	108,000	<1.0	28	<58.0	1.8	38,200	2.0J	<0.32	15,800	<0.14	17.9J	<0.21	312	0.56	<0.021	44.9	427	20.3	<0.0069	None	Clear	None	7.36	382	14.3
10/31/2023	<0.15	<0.28	84.2	139	<0.25	<0.15	53,800	<1.0	19.2	<58.0	0.79J	43,400	1.6J	<0.32	12,800	<0.14	<10.3	<0.21	308	0.64	<0.021	50.0	313	25.7	<0.0069	None	Clear	None	7.5	616	9.9
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**50**	--	**2**	**5,000**	--	--	**10**	**1**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 13 **Lab ID: 40270335004** Collected: 10/30/23 16:40 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 09:39	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	11/01/23 06:34	11/08/23 09:39	7440-38-2	
Barium	**84.2**	ug/L	2.3	0.70	1	11/01/23 06:34	11/08/23 09:39	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/01/23 06:34	11/09/23 14:07	7440-41-7	
Boron	**139**	ug/L	10.0	3.0	1	11/01/23 06:34	11/08/23 09:39	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 09:39	7440-43-9	
Calcium	**53800**	ug/L	254	76.2	1	11/01/23 06:34	11/08/23 09:39	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/01/23 06:34	11/08/23 09:39	7440-47-3	
Copper	**19.2**	ug/L	6.4	1.9	1	11/01/23 06:34	11/08/23 09:39	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	11/01/23 06:34	11/09/23 14:07	7439-89-6	
Lead	**0.79J**	ug/L	1.0	0.24	1	11/01/23 06:34	11/09/23 14:07	7439-92-1	B
Magnesium	**43400**	ug/L	250	31.2	1	11/01/23 06:34	11/08/23 09:39	7439-95-4	
Manganese	**1.6J**	ug/L	4.0	1.2	1	11/01/23 06:34	11/08/23 09:39	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/01/23 06:34	11/08/23 09:39	7782-49-2	
Sodium	**12800**	ug/L	250	42.0	1	11/01/23 06:34	11/08/23 09:39	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/01/23 06:34	11/08/23 09:39	7440-28-0	
Total Hardness by 2340B	**313**	mg/L	1.7	0.32	1	11/01/23 06:34	11/08/23 09:39		
Zinc	**<10.3**	ug/L	34.4	10.3	1	11/01/23 06:34	11/08/23 09:39	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 22:31	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		11/03/23 22:31	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 22:31	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/23 22:31	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/23 22:31	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/23 22:31	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 22:31	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/23 22:31	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/23 22:31	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 22:31	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/23 22:31	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/23 22:31	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/23 22:31	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/23 22:31	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 22:31	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		11/03/23 22:31	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/23 22:31	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		11/03/23 22:31	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/23 22:31	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/23 22:31	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/23 22:31	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		11/03/23 22:31	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/23 22:31	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/23 22:31	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 13 **Lab ID: 40270335004** Collected: 10/30/23 16:40 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/23 22:31	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/23 22:31	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 22:31	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/23 22:31	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/23 22:31	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		11/03/23 22:31	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/23 22:31	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/23 22:31	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/23 22:31	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/23 22:31	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/23 22:31	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 22:31	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/23 22:31	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/23 22:31	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/23 22:31	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		11/03/23 22:31	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/23 22:31	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 22:31	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/23 22:31	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		11/03/23 22:31	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/03/23 22:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/03/23 22:31	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/03/23 22:31	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**25.7**	mg/L	2.0	0.59	1		10/31/23 21:34	16887-00-6	
Nitrate as N	**0.64**	mg/L	0.15	0.044	1		10/31/23 21:34	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/31/23 21:34	14797-65-0	D3
Sulfate	**50.0**	mg/L	2.0	0.44	1		10/31/23 21:34	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**308**	mg/L	25.0	7.4	1		11/08/23 07:32		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/23 10:30	11/07/23 14:36	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/07/23 20:36	11/08/23 01:33	7727-37-9	

REPORT OF LABORATORY ANALYSIS

November 24, 2023

James and Rita Lofy
N9 W31146 Concord Court
Delafield, Wisconsin 53018

Re: **Sample Results Notification – October 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. and Mrs. Lofy:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On October 31, 2023, Terracon collected a groundwater sample from the potable well (15) on your property at N9 W31146 Concord Court, Delafield, Wisconsin. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. Several inorganic parameters were detected but each parameter was below its respective ES. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at gwen.saliares@wisconsin.gov or contact by phone at (920) 510-4343.

Sincerely,

Lucas P. Chabela
Senior Staff Geologist

LPC/BRS:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\15\10.2023\5.23 OffisteNotificationLetter.N9W31146.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

N9 W31146 Concord Court (15)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters						
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/27/2010	<1.4	<0.55	121	NS	<0.13	<0.26	67,400	<0.75	8.9	NS	<1.4	NS	<0.59	<2.1	7,190	<2.2	20.3	<0.35	363	NS	NS	39	328	12.6	<0.0061	--	--	--	7.18	560	13.5
9/20/2010	<3.1	<3.1	130	NS	<0.60	<0.60	81,00	<3.1	190	NS	8.5	38,000	3.7	<3.1	6,800	<0.60	150	<0.25	280	NS	NS	NS	340	20	<0.0081	--	--	--	7.38	678	12.6
3/10/2011	<0.63	<0.14	130	NS	<0.23	<0.12	29,00	<0.59	33	<11,000	5.8	NS	<3.1	<0.37	7,300	<0.36	1,300	0.33	280	NS	NS	47	240	21	<0.0011	--	--	--	7.34	668	11.15
9/29/2011	<0.63	<0.14	130	NS	<0.23	<0.12	49,00	<0.59	9.8	<11,000	0.37	42,000	1.2	<0.37	7,400	<0.36	23	0.19	430	NS	NS	NS	370	21	<0.0011	--	--	--	7.3	680	12.9
11/21/2013	<2.0	<0.80	121	NS	<0.10	<0.30	71,500	<0.60	22.6	NS	4.3	45,400	0.53	<1.4	7,500	<2.5	67.9	<0.40	340	NS	NS	57	365	26	<5.0	--	--	--	NS	NS	NS
7/21/2014	<4.0	<1.0	130	NS	<0.23	<0.23	69,200	<1.9	4.1	NS	<1.3	39,800	<0.70	<1.7	9,500	<4.0	10.6	<0.40	310	NS	NS	49	337	24	<5.0	--	--	--	7.9	850	NS
5/6/2015	NS	<1.0	143	NS	NS	<0.23	71,100	<1.9	9.8	NS	<1.3	40,100	<1.4	<1.7	8,000	<0.253	114	<0.40	300	NS	NS	53	343	25	<6.0	--	--	--	7.85	860	9.8
5/5/2016	<4.0	<0.50	120	NS	<0.23	<0.23	67,000	<1.9	7.4	NS	<1.3	38,900	1.6	<1.2	8,700	<0.90	14.5	0.44	340	NS	NS	54	327	26	<0.006	--	--	--	7.87	980	10.5
10/20/2017	<0.60	<0.60	123	NS	<0.38	<0.40	71,300	<2.0	49.6	NS	2.2	39,700	<1.4	<1.0	8,440	<0.19	453	<0.52	320	NS	NS	56	342	30	<0.0040	--	--	--	7.47	694	11.9
4/27/2018	<0.60	<0.60	136	NS	<0.38	<0.40	62,700	<2.0	4.5	NS	<0.43	38,900	<2.2	<1.0	7,140	<0.19	13.5	<0.23	330	NS	NS	53	317	25	<0.0030	--	--	--	7.59	664	11.3
10/29/2018	<0.60	<0.60	132	NS	<0.38	<0.40	68,200	<2.0	4.9	<59	<0.43	42,300	<2.2	<1.0	8,010	<0.19	6.7	<0.23	320	NS	NS	52	344	25	<0.0030	--	--	--	7.64	742	8.3
4/28/2019	<0.60	<0.60	129	NS	<0.38	<0.40	68,000	<2.0	26.7	<59	<0.43	40,900	<2.2	<1.0	8.73	<0.19	44.4	<0.23	320	NS	NS	52	338	26	<0.0030	--	--	--	7.7	655	12.4
10/28/2019	0.2	<0.28	133	NS	<0.25	<0.15	49,700	<1.0	14.3	<58.0	0.65	42,800	<1.2	<0.32	9,500	<0.14	20.1	0.25	305	1.2	<0.040	48.0	300	25.4	<0.0068	None	Clear	None	7.71	694	11.31
4/27/2020	<0.15	<0.28	129	26.0	<0.25	<0.15	39,300	<1.0	14.1	<58.0	0.32	43,600	<1.2	<0.32	9,520	<0.14	16.3	<0.21	294	1.4	<0.021	50.2	277	25.7	<0.0069	None	Clear	None	7.69	1,000	11.25
10/27/2020	<0.15	<0.28	132	18.8	<0.25	<0.15	61,300	<1.0	58.2	<58.0	3.5	42,300	<1.2	<0.32	8,540	<0.14	65.7	<0.21	313	1.4	<0.021	52.0	327	26.6	<0.0069	None	Clear	None	7.17	901	11.85
5/4/2021	<0.15	<0.28	129	15.1	<0.25	<0.15	49,400	<1.0	30.7	<58.0	0.39	41,800	<1.2	<0.32	8,460	<0.14	21.7	<0.21	313	1.4	<0.021	53.2	295	26.0	<0.0069	None	Clear	None	7.51	778	12.01
10/27/2021	<0.15	<0.28	125	16.5	<0.25	<0.15	60,100	<1.0	35.1	<58.0	1.1	43,000	<1.2	<0.32	9,000	<0.14	32.3	<0.21	326	1.3	<0.021	53.6	327	28.7	<0.0069	None	Clear	None	7.21	804	10.89
5/2/2022	<0.15	<0.28	142	40.1	<0.25	<0.15	69,000	<1.0	21.8	202	0.62	49,700	1.8	0.32	12,400	<0.14	24.6	<0.21	339	1.5	<0.021	52.4	377	29.9	<0.0069	None	Clear	None	7.5	725	11.1
10/26/2022	<0.15	0.39	139	17.2	<0.25	<0.15	172,000	<1.0	16.7	<58.0	0.43	44,600	<1.2	<0.32	9,870	<0.14	13.6	<0.21	331	1.5	<0.021	52.2	612	30.6	0.0069J	None	Clear	None	--	--	--
4/27/2023	<0.15	<0.28	128	24.6	<0.25	<0.15	146,000	<1.0	69.9	<58.0	1.6	43,100	<1.2	0.37J	10,700	<0.14	106	<0.21	321	1.5	<0.021	49.0	541	30.7	<0.0069	None	Clear	None	7.23	447	15.6
10/31/2023	0.17J	<0.28	123	84.7	<0.25	<0.15	42,700	<1.0	16.6	<58.0	1.2	44,900	<1.2	<0.32	14,700	<0.14	39.8	<0.21	317	1.3	<0.021	55.2	292	31.5	<0.0069	None	Clear	None	7.5	991	11.5
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**50**	--	**2**	**5,000**	--	--	**10**	**1**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard

[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023

[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 15 **Lab ID: 40270335005** Collected: 10/30/23 15:45 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**0.17J**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 09:47	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	11/01/23 06:34	11/08/23 09:47	7440-38-2	
Barium	**123**	ug/L	2.3	0.70	1	11/01/23 06:34	11/08/23 09:47	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/01/23 06:34	11/09/23 14:12	7440-41-7	
Boron	**84.7**	ug/L	10.0	3.0	1	11/01/23 06:34	11/08/23 09:47	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 09:47	7440-43-9	
Calcium	**42700**	ug/L	254	76.2	1	11/01/23 06:34	11/08/23 09:47	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/01/23 06:34	11/08/23 09:47	7440-47-3	
Copper	**16.6**	ug/L	6.4	1.9	1	11/01/23 06:34	11/08/23 09:47	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	11/01/23 06:34	11/09/23 14:12	7439-89-6	
Lead	**1.2**	ug/L	1.0	0.24	1	11/01/23 06:34	11/09/23 14:12	7439-92-1	B
Magnesium	**44900**	ug/L	250	31.2	1	11/01/23 06:34	11/08/23 09:47	7439-95-4	
Manganese	**<1.2**	ug/L	4.0	1.2	1	11/01/23 06:34	11/08/23 09:47	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/01/23 06:34	11/08/23 09:47	7782-49-2	
Sodium	**14700**	ug/L	250	42.0	1	11/01/23 06:34	11/08/23 09:47	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/01/23 06:34	11/08/23 09:47	7440-28-0	
Total Hardness by 2340B	**292**	mg/L	1.7	0.32	1	11/01/23 06:34	11/08/23 09:47		
Zinc	**39.8**	ug/L	34.4	10.3	1	11/01/23 06:34	11/08/23 09:47	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 22:51	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		11/03/23 22:51	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 22:51	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/23 22:51	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/23 22:51	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/23 22:51	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 22:51	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/23 22:51	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/23 22:51	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 22:51	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/23 22:51	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/23 22:51	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/23 22:51	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/23 22:51	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 22:51	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		11/03/23 22:51	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/23 22:51	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		11/03/23 22:51	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/23 22:51	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/23 22:51	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/23 22:51	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		11/03/23 22:51	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/23 22:51	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/23 22:51	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 15 **Lab ID: 40270335005** Collected: 10/30/23 15:45 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/23 22:51	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/23 22:51	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 22:51	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/23 22:51	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/23 22:51	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		11/03/23 22:51	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/23 22:51	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/23 22:51	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/23 22:51	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/23 22:51	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/23 22:51	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 22:51	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/23 22:51	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/23 22:51	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/23 22:51	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		11/03/23 22:51	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/23 22:51	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 22:51	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/23 22:51	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		11/03/23 22:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/23 22:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/03/23 22:51	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/03/23 22:51	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**31.5**	mg/L	2.0	0.59	1		10/31/23 22:17	16887-00-6	
Nitrate as N	**1.3**	mg/L	0.15	0.044	1		10/31/23 22:17	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/31/23 22:17	14797-65-0	
Sulfate	**55.2**	mg/L	10.0	2.2	5		11/02/23 02:59	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**317**	mg/L	25.0	7.4	1		11/08/23 07:33		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/23 10:30	11/07/23 14:37	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/07/23 20:36	11/08/23 01:34	7727-37-9	

REPORT OF LABORATORY ANALYSIS

November 24, 2023

Michael Sitarz
W312 N1055 Fairfield Way
Delafield, Wisconsin 53018

Re: **Sample Results Notification – October 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. Sitarz:

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On October 31, 2023, Terracon collected a groundwater sample from the potable well (54) on your property at W312 N1055 Fairfield Way, Delafield, Wisconsin. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. However, copper and lead were both detected above their respective PALs but below their ESs. Several inorganic parameters were detected but each parameter was below its respective ES. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at gwen.saliares@wisconsin.gov or contact our office at (920) 510-4343.

Sincerely,

Lucas P. Chabela
Senior Staff Geologist

LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\54\10.2023\5.23 OffisteNotificationLetter.W312N1055.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

W312 N1055 Fairfield Way (54)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/29/2010	<1.4	<0.55	81.7	NS	<0.13	<0.26	76,700	0.85	259	NS	171	NS	24.4	<2.1	49,600	<2.2	199	0.38	390	NS	NS	48.8	344	78.7	<0.0061	--	--	--	NS	628	13
9/20/2010	<3.1	<3.1	82	NS	<0.60	<0.60	85,000	<3.1	111	NS	21.2	38,000	12	<3.1	33,000	<0.60	1,070	<0.25	300	NS	NS	NS	360	69	<0.0081	--	--	--	6.98	NS	NS
3/10/2011	<0.63	<0.14	81	NS	<0.23	0.16	57,000	<0.59	72	880	6.6	40,000	16	<0.37	39,000	<0.36	300	0.71	300	NS	NS	55	310	71	<0.0011	--	--	--	7.19	854	8.54
9/29/2011	<0.63	<0.14	87	NS	<0.23	<0.12	77,000	<0.59	52	690	13	NS	15	<0.37	48,000	<0.36	220	0.35	290	NS	NS	NS	420	92	<0.0011	--	--	--	7.24	917	13.4
11/21/2013	<2.0	<0.80	74.6	NS	<0.10	<0.30	74,600	<0.60	7.3	NS	.44	39,100	12.4	<1.4	47,300	<2.5	69	<0.40	370	NS	NS	52	347	82	<5.0	--	--	--	NS	NS	NS
7/21/2014	<4.0	<1.0	86.4	NS	<0.23	<0.23	79,000	<1.9	15.2	NS	2.5	37,700	17.5	<1.7	42,900	<4.0	56.2	0.4	320	NS	NS	53	353	85	<5.0	--	--	--	7.8	900	9.8
5/6/2015	NS	<1.0	89.3	NS	NS	<0.23	82,200	<1.9	9.1	NS	<1.3	39,100	17.4	<1.7	44,100	<0.253	52.2	<0.40	320	NS	NS	49	366	89	<6.0	--	--	--	7.78	1120	9.9
5/5/2016	<0.60	<0.50	80.2	NS	<0.38	<0.23	76,000	<1.9	89.2	NS	7	37,800	9.1	<1.2	47,400	<0.90	203	<0.14	360	NS	NS	58	345	100	<0.006	--	--	--	7.76	1150	10.7
10/20/2017	<0.60	<0.60	82.3	NS	<0.38	<0.40	79,400	<2.0	5.9	<59	<1.3	37,500	8.1	<1.0	49,100	<0.19	104	<0.52	340	NS	NS	52	353	89	<0.0040	--	--	--	7.53	882	11.5
4/27/2018	<0.60	<0.60	98.4	NS	<0.38	<0.40	73,400	<2.0	9.2	81.8	<0.43	39,400	8.7	<1.0	44,000	<0.19	37.1	<0.23	360	NS	NS	53	346	<1.0	<0.0030	--	--	--	7.62	891	11
10/29/2018	<0.60	<0.60	94.5	NS	<0.38	<0.40	81,400	<2.0	11.7	74.5	.89	42,800	9.4	<1.0	48,400	<0.19	42.4	0.47	190	NS	NS	55	380	110	<0.0030	--	--	--	7.96	939	12.1
4/28/2019	<0.60	<0.60	95.6	NS	<0.38	<0.40	82,500	<2.0	<3.9	121	<0.24	42,500	8.6	<1.0	49,800	<0.19	8.8	<0.23	360	NS	NS	56	381	97	<0.0030	--	--	--	7.22	905	
10/28/2019	<0.15	<0.28	99.1	NS	<0.25	<0.15	82,000	<1.0	348	132	1.7	44,000	9.9	<0.32	53,000	<0.14	241	0.54	334	<0.075	<0.040	49.4	386	105	<0.0068	None	Clear	None	7.71	694	11.93
4/27/2020	<0.15	<0.28	96.8	267	<0.25	<0.15	74,800	<1.0	252	159	1.3	44,700	9.4	<0.32	56,500	<0.14	203	0.40	313	<0.044	<0.021	53.6	371	103	<0.0069	None	Clear	None	7.7	845	11.40
10/27/2020	<0.15	<0.28	1.0	274	<0.25	<0.15	288	<1.0	14.3	<58.0	0.52	187	<1.2	<0.32	227,000	<0.14	<10.3	<0.21	335	<0.044	0.091	59.2	1.5	78	<0.0069	None	Clear	None	7.75	777	11.30
5/4/2021	<0.15	<0.28	72.9	240	<0.25	<0.15	70,700	<1.0	15.7	<58.0	<0.24	39,400	7.0	<0.32	36,500	<0.14	23.9	<0.21	332	0.13	<0.021	57.8	339	63	<0.0069	None	Clear	None	7.56	993	12.71
10/27/2021	<0.15	0.34	90.9	227	<0.25	<0.15	81,300	<1.0	19.7	97.7	0.88	43,200	10.0	<0.32	44,400	<0.14	31.8	<0.21	345	<0.044	<0.021	58.3	381	90.6	<0.0069	None	Clear	None	7.81	1087	11.99
5/2/2022	<0.15	<0.28	91.2	250	<0.25	<0.15	82,000	<1.0	26.7	104	<0.24	46,900	11.2	<0.32	42,300	<0.14	13.3	<0.21	346	<0.044	<0.021	69.8	398	83.7	<0.0069	None	Clear	None	8.01	945	10.40
4/27/2023	<0.15	<0.28	100	197	<0.25	<0.15	121,000	<1.0	277	153J	3.0	45,200	11.2	<0.32	49,900	<0.14	163	<0.21	338	<0.044	<0.021	54.1	488	101	<0.0069	None	Clear	None	7.91	851	14.59
10/31/2023	<0.15	<0.28	92.6	253	<0.25	<0.15	69,700	<1.0	733	103J	1.6	44,900	10.8	<0.32	47,800	<0.14	36.3	<0.21	337	<0.044	<0.021	59.5	359	95.3	<0.0069	None	Clear	None	7.55	1008	12.10
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**50**	--	**2**	**5,000**	--	--	**10**	**1**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard

[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023

[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX Exceeds NR 140 PAL
XX.XX Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 54 **Lab ID: 40270335006** Collected: 10/30/23 16:20 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 10:24	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	11/01/23 06:34	11/08/23 10:24	7440-38-2	
Barium	**92.6**	ug/L	2.3	0.70	1	11/01/23 06:34	11/08/23 10:24	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/01/23 06:34	11/09/23 14:17	7440-41-7	
Boron	**253**	ug/L	10.0	3.0	1	11/01/23 06:34	11/08/23 10:24	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 10:24	7440-43-9	
Calcium	**69700**	ug/L	254	76.2	1	11/01/23 06:34	11/08/23 10:24	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/01/23 06:34	11/08/23 10:24	7440-47-3	
Copper	**733**	ug/L	63.5	19.1	10	11/01/23 06:34	11/09/23 14:33	7440-50-8	
Iron	**103J**	ug/L	250	58.0	1	11/01/23 06:34	11/09/23 14:17	7439-89-6	
Lead	**1.6**	ug/L	1.0	0.24	1	11/01/23 06:34	11/09/23 14:17	7439-92-1	B
Magnesium	**44900**	ug/L	250	31.2	1	11/01/23 06:34	11/08/23 10:24	7439-95-4	
Manganese	**10.8**	ug/L	4.0	1.2	1	11/01/23 06:34	11/08/23 10:24	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/01/23 06:34	11/08/23 10:24	7782-49-2	
Sodium	**47800**	ug/L	250	42.0	1	11/01/23 06:34	11/08/23 10:24	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/01/23 06:34	11/08/23 10:24	7440-28-0	
Total Hardness by 2340B	**359**	mg/L	1.7	0.32	1	11/01/23 06:34	11/08/23 10:24		
Zinc	**36.3**	ug/L	34.4	10.3	1	11/01/23 06:34	11/08/23 10:24	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:10	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		11/03/23 23:10	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:10	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/23 23:10	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/23 23:10	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/23 23:10	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 23:10	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/23 23:10	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/23 23:10	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 23:10	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/23 23:10	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/23 23:10	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/23 23:10	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:10	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 23:10	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		11/03/23 23:10	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/23 23:10	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		11/03/23 23:10	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/23 23:10	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/23 23:10	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/23 23:10	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		11/03/23 23:10	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/23 23:10	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/23 23:10	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 54 **Lab ID: 40270335006** Collected: 10/30/23 16:20 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/23 23:10	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/23 23:10	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 23:10	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/23 23:10	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/23 23:10	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		11/03/23 23:10	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/23 23:10	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/23 23:10	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/23 23:10	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/23 23:10	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/23 23:10	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 23:10	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/23 23:10	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/23 23:10	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/23 23:10	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		11/03/23 23:10	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/23 23:10	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 23:10	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/23 23:10	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		11/03/23 23:10	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/23 23:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		11/03/23 23:10	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/03/23 23:10	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**95.3**	mg/L	10.0	3.0	5		11/02/23 03:42	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		10/31/23 23:00	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/31/23 23:00	14797-65-0	
Sulfate	**59.5**	mg/L	2.0	0.44	1		10/31/23 23:00	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**337**	mg/L	25.0	7.4	1		11/08/23 07:34		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/23 10:30	11/07/23 14:38	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/07/23 20:36	11/08/23 01:34	7727-37-9	

REPORT OF LABORATORY ANALYSIS

November 24, 2023

Chuck and Sharilyn Spiegeloff
1916 Hillside Court
Delafield, Wisconsin 53018

Re: **Sample Results Notification – October 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. and Mrs. Spiegeloff :

On behalf of the Wisconsin Department of Natural Resources, Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On October 31, 2023, Terracon collected a groundwater sample from the potable well (1916) on your property at 1916 Hillside Court, Delafield, Wisconsin. The sample was analyzed for volatile organic compounds (VOCs), metals, and several inorganic and field parameters. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. Lead was detected at a concentration above its PAL. Several inorganic parameters were detected but each parameter was below its respective ES. Both nitrate and chloride were detected at concentrations above their respective PALs. The PALs comprise a lower set of groundwater quality standards that serve as indicators of potential contamination and are below the ESs, which are based on the protection of public health and welfare. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at gwen.saliares@wisconsin.gov at (920) 510-4343.

Sincerely,

Lucas P. Chabela
Senior Staff Geologist

LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\1916\10.2023\5.23 OffisteNotificationLetter.1916.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

1916 Hillside Court (1916)	Metals (µg/L)																	Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
7/21/2014	<4.0	<1.0	66	NS	<0.23	<0.23	93,500	<1.9	11	NS	2.6	43,500	1.7	<1.7	48,100	<4.0	31.8	<0.40	330	NS	NS	28	413	120	<5.0	--	--	--	7.6	1250	NS
10/20/2017	<0.60	<0.60	62.3	NS	<0.38	<0.40	92,700	<2.0	7.6	<0.059	<0.43	43,300	<2.2	<1.0	54,300	<0.19	11.4	<0.52	NS	NS	NS	29	410	150	<0.0040	--	--	--	7.35	990	10.8
4/27/2018	<0.60	<0.60	68.2	NS	<0.38	<0.40	81,400	<2.0	5.2	<0.059	0.65	42,700	<2.2	<1.0	47,200	<0.19	18.2	<0.23	340	NS	NS	28	379	<1.0	<0.0030	--	--	--	7.38	965	10.7
10/29/2018	<0.60	<0.60	69.8	NS	<0.38	<0.40	96,100	<2.0	4.2	<0.059	<0.43	48,300	<2.2	<1.0	65,100	<0.19	15.3	<0.23	330	NS	NS	26	439	160	<0.0030	--	--	--	7.01	1102	10.4
4/28/2019	<0.60	<0.60	68.3	NS	<0.38	<0.40	93,800	<2.0	66.2	<0.059	5.1	45,700	<2.2	<1.0	67,100	<0.19	24.8	<0.23	350	NS	NS	26	422	150	<0.0030	--	--	--	7.46	994	12
10/28/2019	<0.15	<0.28	70.0	<0.25	<0.25	<0.15	102,000	<1.0	13.8	<58.0	0.52	46,900	<1.2	<0.32	71,700	<0.14	29.8	0.43	319	4.7	<0.040	25.1	447	160	<0.0068	None	Clear	None	7.56	774	11.85
4/27/2020	<0.15	<0.28	72.1	29.6	<0.25	<0.15	104,000	<1.0	41.0	<58.0	2.6	49,900	1.3	<0.32	77,800	<0.14	91.7	0.31	314	5.2	0.042	26.7	465	166	<0.0069	None	Clear	None	7.66	811	11.31
10/27/2020	<0.15	<0.28	63.7	28.2	<0.25	<0.15	92,400	<1.0	27.2	<58.0	1.8	44,900	<1.2	<0.32	61,400	<0.14	132	<0.21	330	5.1	0.19	28.0	416	163	<0.0069	None	Clear	None	7.8	1,011	12.5
5/4/2021	<0.15	<0.28	59.6	24.8	<0.25	<0.15	90,400	<1.0	18.2	<58.0	0.25	43,100	<1.2	<0.32	48,700	<0.14	14.5	<0.21	334	3.9	<0.021	30.5	403	125	<0.0069	None	Clear	None	7.7	594	11.89
10/27/2021	<0.15	0.32	60.6	24.7	<0.25	<0.15	89,400	<1.0	23.1	<58.0	0.4	44,800	<1.2	<0.32	53,100	<0.14	19.2	<0.21	344	3.9	<0.021	30.3	408	141	<0.0069	None	Clear	None	7.55	980	10.92
5/19/2022	<0.15	0.43	68.7	27.1	<0.25	<0.15	95,000	<1.0	17.7	<58.0	0.36	47,500	2.1	<0.32	59,800	<0.14	13.3	<0.21	339	4.2	<0.021	31.5	433	157	0.0076	None	Clear	None	--	--	--
10/26/2022	<0.15	0.53	74.2	28.2	<0.25	<0.15	97,800	<1.0	17.1	<58.0	0.32	48,700	<1.2	<0.32	81,800	<0.14	11.6	<0.21	348	5.9	<0.021	28.5	444	200	<0.0069	None	Clear	None	--	--	--
4/27/2023	<0.15	<0.28	44.6	109	<0.25	<0.15	65,000	<1.0	10.0	**318**	1.3	22,300	5.4	<0.32	6,100	<0.14	261	<0.21	238	<0.044	<0.021	21.6	254	1.2J	<0.0069	None	Clear	None	6.33	592	13.2
10/23/2023	<0.15	<0.28	64.8	26.3	<0.25	<0.15	94,000	<1.0	51.8	<58.0	1.9	48,900	<1.2	<0.32	64,000	<0.14	26.9J	<0.21	330	4.8	<0.021	28.8	436	158	<0.0069	None	Clear	None	7.1	405	13.9
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**50**	--	**2**	**5,000**	--	--	**10**	**1**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analyzed for this analyte
-- = No Establish Standard
[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023
[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 1916 **Lab ID: 40270335007** Collected: 10/30/23 16:00 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 10:31	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	11/01/23 06:34	11/08/23 10:31	7440-38-2	
Barium	**64.8**	ug/L	2.3	0.70	1	11/01/23 06:34	11/08/23 10:31	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/01/23 06:34	11/09/23 14:22	7440-41-7	
Boron	**26.3**	ug/L	10.0	3.0	1	11/01/23 06:34	11/08/23 10:31	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 10:31	7440-43-9	
Calcium	**94000**	ug/L	254	76.2	1	11/01/23 06:34	11/08/23 10:31	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/01/23 06:34	11/08/23 10:31	7440-47-3	
Copper	**51.8**	ug/L	6.4	1.9	1	11/01/23 06:34	11/08/23 10:31	7440-50-8	
Iron	**<58.0**	ug/L	250	58.0	1	11/01/23 06:34	11/09/23 14:22	7439-89-6	
Lead	**1.9**	ug/L	1.0	0.24	1	11/01/23 06:34	11/09/23 14:22	7439-92-1	B
Magnesium	**48900**	ug/L	250	31.2	1	11/01/23 06:34	11/08/23 10:31	7439-95-4	
Manganese	**<1.2**	ug/L	4.0	1.2	1	11/01/23 06:34	11/08/23 10:31	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/01/23 06:34	11/08/23 10:31	7782-49-2	
Sodium	**64000**	ug/L	250	42.0	1	11/01/23 06:34	11/08/23 10:31	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/01/23 06:34	11/08/23 10:31	7440-28-0	
Total Hardness by 2340B	**436**	mg/L	1.7	0.32	1	11/01/23 06:34	11/08/23 10:31		
Zinc	**26.9J**	ug/L	34.4	10.3	1	11/01/23 06:34	11/08/23 10:31	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:29	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		11/03/23 23:29	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:29	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/23 23:29	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/23 23:29	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/23 23:29	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 23:29	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/23 23:29	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/23 23:29	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 23:29	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/23 23:29	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/23 23:29	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/23 23:29	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:29	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 23:29	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		11/03/23 23:29	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/23 23:29	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		11/03/23 23:29	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/23 23:29	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/23 23:29	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/23 23:29	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		11/03/23 23:29	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/23 23:29	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/23 23:29	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: 1916 **Lab ID: 40270335007** Collected: 10/30/23 16:00 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/23 23:29	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/23 23:29	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 23:29	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/23 23:29	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/23 23:29	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		11/03/23 23:29	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/23 23:29	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/23 23:29	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/23 23:29	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/23 23:29	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/23 23:29	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 23:29	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/23 23:29	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/23 23:29	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/23 23:29	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		11/03/23 23:29	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/23 23:29	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 23:29	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/23 23:29	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		11/03/23 23:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/03/23 23:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/03/23 23:29	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/03/23 23:29	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**158**	mg/L	10.0	3.0	5		11/02/23 03:56	16887-00-6	
Nitrate as N	**4.8**	mg/L	0.75	0.22	5		11/02/23 03:56	14797-55-8	H5
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/31/23 23:14	14797-65-0	
Sulfate	**28.8**	mg/L	2.0	0.44	1		10/31/23 23:14	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**330**	mg/L	25.0	7.4	1		11/08/23 07:38		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/23 10:30	11/07/23 14:38	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/07/23 20:36	11/08/23 01:35	7727-37-9	

REPORT OF LABORATORY ANALYSIS

November 24, 2023

Mr. Erwin Sulma
W310 N1055 Bunker Hill Tr.
Delafield, Wisconsin 53018

Mr. Craig Van Der Bunt
W310 N1054 Bunker Hill Tr.
Delafield, Wisconsin 53018

Re: **Sample Results Notification – October 2023**
Sanitary Transfer and Landfill - Delafield
3402 Kettle Court East
Delafield, Wisconsin, 53018
BRRTS Case # 02-26-000166
Terracon Project No. 58197097

Dear Mr. Sulma and Mr. Van Der Bunt :

On behalf of the Wisconsin Department of Natural Resources (WDNR), Terracon Consultants, Inc. (Terracon) is providing this letter to you to present the results of groundwater samples collected from your property.

On October 31, 2023, Terracon collected a groundwater sample from the potable well (Lot 15) on your properties at W310 N1055 and W310 N1054 Bunker Hill Tr., Delafield, Wisconsin. The WDNR has established groundwater quality standards, which are set forth in NR 140, Wisconsin Administrative Code (WAC). For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant does not exceed either standard, no additional action is required. If the concentration exceeds the PAL, but is below the ES, additional investigation/continued monitoring may be required. If the regulated contaminant is above its ES, additional investigation, continued monitoring, and/or remediation may be required.

VOCs were not detected about the laboratory limit of detection (LOD). Several metals were detected above the LOD but well below their respective ES. Only iron was detected above its respective PALs. Several inorganic parameters were detected but each parameter was below its ES. The results are summarized in the attached Table 1. The laboratory report is also attached.

Should you have any questions or concerns regarding these health standards, you may contact the following:

Department of Health Services
1 West Wilson Street
Madison, Wisconsin 53703
(608) 266-1865
DHSwebmaster@wisconsin.gov

If you have any questions for the water quality results or work at the landfill, please contact Gwen Saliares via email at gwen.saliares@wisconsin.gov or contact at (920) 510-4343.

Sincerely,

Lucas P. Chabela
Senior Staff Geologist

LPC:lpc/N:\Projects\2019\58197097\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Offiste Notifications\Lot 15\10.2023\5.23 OffisteNotificationLetter.W310N1055&W310N1054.doc

Attachments – Table 1
Laboratory Analytical Report

Copies to: Gwen Saliares, WDNR (electronic)

Table 1
Potable Well Test Results for Metals and Inorganic Parameters

Sanitary and Transfer Landfill - Delafield
3402 Kettle Court
Delafield, Wisconsin
Terracon Project No. 58197097

W310N1071/W310N1054 Bunker Hill Tr. (Lot 15)	Metals (µg/L)																Inorganic Parameters (mg/L)								Field Parameters					
Sample Date	Antimony	Arsenic	Barium	Boron	Beryllium	Cadmium	Calcium	Chromium	Copper	Iron	Lead	Magnesium	Manganese	Selenium	Sodium	Thallium	Zinc	TKN	Alkalinity	Nitrate	Nitrite	Sulfate	Hardness	Chloride	Cyanide	Odor	Color	Turbidity	pH	Conductivity (µs/cm)	Temperature (degrees C)
4/29/2010	<1.4	0.78	53.5	NS	<0.13	0.32	52,300	1.1	42.8	**374**	9.9	NS	6.2	<2.1	8,440	<2.2	1,120	<0.35	275	NS	NS	22.6	222	2.6	<0.0011	--	--	--	7.06	850	13
9/20/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	7.46	NS	13.4
3/10/2011	<0.63	<0.14	50	NS	<0.23	<0.12	46,000	<0.59	3.8	97	1.5	NS	4.9	<0.37	6,200	<0.36	460	0.21	210	NS	NS	21	210	1.2	<0.0011	--	--	--	7.36	449	12.52
9/29/2011	<0.63	<0.14	47	NS	<0.23	<0.12	51,000	<0.59	11	46	.26	24,000	4.4	<0.37	6,400	<0.36	520	0.19	220	NS	NS	NS	240	<1.5	<0.0011	--	--	--	7.46	452	12.6
11/21/2013	<2.0	<0.80	61.1	NS	<0.10	<0.30	55,400	<0.60	<1.2	NS	2.1	26,400	4.9	<1.4	5,200	<2.5	333	<0.40	270	NS	NS	22	247	1.7	<5.0	--	--	--	NS	NS	NS
7/21/2014	<4.0	<1.0	49.3	NS	<0.23	<0.23	50,800	<1.9	<4.0	NS	<4.1	20,700	4.5	<1.7	5,800	<4.0	320	<0.40	230	NS	NS	21	212	<1.3	<5.0	--	--	--	8	544	10.3
5/6/2015	NS	<1.0	54	NS	NS	<0.23	52,800	<1.9	128	NS	**17.3**	22,400	12.4	<1.7	6,000	<0.253	279	<0.40	220	NS	NS	21	224	1.5	<6.0	--	--	--	7.94	559	9.8
5/5/2016	<0.60	<.50	81	NS	<0.23	<0.23	52,800	<1.9	9.6	NS	<4.1	23,400	8.2	<1.2	4,500	<0.90	258	<0.14	280	NS	NS	20	228	1.4	<0.006	--	--	--	7.83	614	14.3
10/20/2017	<0.60	<0.60	43.5	NS	<0.38	<0.40	49,400	<2.0	96.8	150	4.3	21,300	5.8	<1.0	5,730	<0.19	260	<0.52	230	NS	NS	27	211	4.9	<0.0040	--	--	--	7.1	436	14.8
4/27/2018	<0.60	<0.60	51	NS	<0.38	<0.40	47,600	<2.0	69.2	179	6.8	21,900	4.4	<1.0	5,170	<0.19	262	0.27	240	NS	NS	21	209	3.3	<0.0030	--	--	--	7.52	406	11.9
10/29/2018	<0.60	<0.60	50.4	NS	<0.38	<0.40	50,000	<2.0	<3.9	265	0.59	22,900	5.3	<1.0	6,630	<0.19	261	<0.23	240	NS	NS	19	219	1.4	<0.0030	--	--	--	7.68	429	14.4
4/28/2019	<0.60	<0.60	47.3	NS	<0.38	<0.40	51,900	<2.0	16.1	285	1.8	23,300	4.3	<1.0	5,840	<0.19	939	0.36	240	NS	NS	22	226	15	<0.0030	--	--	--	7.17	458	
10/28/2019	<0.15	<0.28	47.3	NS	<0.25	<0.15	51,700	<1.0	1.1	155	0.32	23,600	4.5	<0.32	5,640	<0.14	174	0.32	220	<0.075	<0.040	22.1	226	1.1	<0.0068	None	Clear	None	7.74	321	12.38
4/27/2020	<0.15	<0.28	49.3	123	<0.25	<0.15	46,600	<1.0	8.7	198	0.24	23,400	12.4	<0.32	7,820	<0.14	174	<0.21	218	<0.044	<0.021	19.1	213	1.5	<0.0069	None	Clear	None	7.56	718	11.21
10/27/2020	<0.15	<0.28	56.1	117	<0.25	<0.15	52,900	<1.0	81	<58.0	6.3	23,300	8.2	<0.32	6,640	<0.14	504	<0.21	235	0.058	<0.021	26.1	228	1.3	<0.0069	None	Clear	None	7.01	918	12.15
5/4/2021	<0.15	<0.28	50.3	116	<0.25	<0.15	50,200	<1.0	<1.9	**332**	<0.24	22,600	5.8	<0.32	6,850	<0.14	156	<0.21	231	<0.044	<0.021	21.7	218	1.2	<0.0069	None	Clear	None	7.55	449	12.58
10/27/2021	<0.15	<0.28	44.5	103	<0.25	<0.15	51,200	<1.0	2.0	226	0.52	22,900	4.7	<0.32	6,020	<0.14	300	<0.21	235	<0.044	<0.021	23.0	222	1.3	<0.0069	None	Clear	None	7.88	556	10.56
5/2/2022	<0.15	<0.28	47.6	107	<0.25	<0.15	64,200	<1.0	<1.9	193	0.41	25000	5.1	<0.32	5,970	<0.14	254	<0.21	242	<0.044	<0.021	24.1	263	1.2	<0.0069	None	Clear	None	7.55	725	10.98
10/26/2022	<0.15	0.33	52.0	129	<0.25	<0.15	68,800	<1.0	<1.9	**307**	0.32	22,200	5.4	<0.32	7,560	<0.14	295	<0.21	254	<0.044	<0.021	19.2	263	1.6	<0.0069	None	Clear	None	--	--	--
4/27/2023	<0.15	<0.28	72.6	33.5	<0.25	<0.15	101,000	<1.0	28.7	<58.0	3.0	49,100	1.5J	<0.32	91,200	<0.14	146	<0.21	345	5.6	<0.021	25.7	454	186	<0.0069	None	Clear	None	7.32	26	24.97
10/31/2023	<0.15	<0.28	51.7	110	<0.25	<0.15	50,800	<1.0	2.1J	227	1.1	25,700	5.8	<0.32	6,230	<0.14	379	<0.21	236	<0.044	<0.021	23.0	233	1.2J	<0.0069	None	Clear	None	7.81	837	13.01
NR 140 WAC, PAL[1]	1.2	1	400	200	0.4	0.5	--	10	130	150	1.5	--	60	10	--	0.4	2,500	--	--	2	0.2	125	--	125	0.04	--	--	--	--	--	--
NR 140 WAC, ES[2]	**6**	**10**	**2,000**	**1,000**	**4**	**5**	--	**100**	**1,300**	**300**	**15**	--	**300**	**50**	--	**2**	**5,000**	--	--	**10**	**1**	**250**	--	**250**	0.2	--	--	--	--	--	--

Notes:
Metal results expressed in micrograms per liter (ug/L)
Inorganic Parameter results expressesed in milligrams per liter (mg/L)
Conductivity results expressed as microsiemens per centimeter (µs/cm)
NS=Sample not analzyed for this analyte
-- = No Establish Standard

[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, March 2023

[2]NR 140, WAC, Enforcement Standard (ES), Register, March 2023

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: LOT 15 **Lab ID: 40270335008** Collected: 10/30/23 10:00 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Antimony	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 10:38	7440-36-0	
Arsenic	**<0.28**	ug/L	1.0	0.28	1	11/01/23 06:34	11/08/23 10:38	7440-38-2	
Barium	**51.7**	ug/L	2.3	0.70	1	11/01/23 06:34	11/08/23 10:38	7440-39-3	
Beryllium	**<0.25**	ug/L	1.0	0.25	1	11/01/23 06:34	11/09/23 14:28	7440-41-7	
Boron	**110**	ug/L	10.0	3.0	1	11/01/23 06:34	11/08/23 10:38	7440-42-8	
Cadmium	**<0.15**	ug/L	1.0	0.15	1	11/01/23 06:34	11/08/23 10:38	7440-43-9	
Calcium	**50800**	ug/L	254	76.2	1	11/01/23 06:34	11/08/23 10:38	7440-70-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	11/01/23 06:34	11/08/23 10:38	7440-47-3	
Copper	**2.1J**	ug/L	6.4	1.9	1	11/01/23 06:34	11/08/23 10:38	7440-50-8	
Iron	**227J**	ug/L	250	58.0	1	11/01/23 06:34	11/09/23 14:28	7439-89-6	
Lead	**1.1**	ug/L	1.0	0.24	1	11/01/23 06:34	11/09/23 14:28	7439-92-1	B
Magnesium	**25700**	ug/L	250	31.2	1	11/01/23 06:34	11/08/23 10:38	7439-95-4	
Manganese	**5.8**	ug/L	4.0	1.2	1	11/01/23 06:34	11/08/23 10:38	7439-96-5	
Selenium	**<0.32**	ug/L	1.1	0.32	1	11/01/23 06:34	11/08/23 10:38	7782-49-2	
Sodium	**6230**	ug/L	250	42.0	1	11/01/23 06:34	11/08/23 10:38	7440-23-5	
Thallium	**<0.14**	ug/L	1.0	0.14	1	11/01/23 06:34	11/08/23 10:38	7440-28-0	
Total Hardness by 2340B	**233**	mg/L	1.7	0.32	1	11/01/23 06:34	11/08/23 10:38		
Zinc	**379**	ug/L	34.4	10.3	1	11/01/23 06:34	11/08/23 10:38	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:48	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	1.0	0.34	1		11/03/23 23:48	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:48	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		11/03/23 23:48	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		11/03/23 23:48	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		11/03/23 23:48	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 23:48	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		11/03/23 23:48	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		11/03/23 23:48	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 23:48	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		11/03/23 23:48	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		11/03/23 23:48	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		11/03/23 23:48	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		11/03/23 23:48	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 23:48	75-27-4	
Bromoform	**<0.43**	ug/L	1.0	0.43	1		11/03/23 23:48	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		11/03/23 23:48	74-83-9	
Carbon disulfide	**<0.65**	ug/L	1.0	0.65	1		11/03/23 23:48	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		11/03/23 23:48	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		11/03/23 23:48	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		11/03/23 23:48	75-00-3	
Chloroform	**<0.50**	ug/L	5.0	0.50	1		11/03/23 23:48	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		11/03/23 23:48	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		11/03/23 23:48	124-48-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197097 DELAFIELD LANDFILL
Pace Project No.: 40270335

Sample: LOT 15 **Lab ID: 40270335008** Collected: 10/30/23 10:00 Received: 10/31/23 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		11/03/23 23:48	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		11/03/23 23:48	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		11/03/23 23:48	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		11/03/23 23:48	1634-04-4	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		11/03/23 23:48	75-09-2	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		11/03/23 23:48	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		11/03/23 23:48	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/03/23 23:48	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		11/03/23 23:48	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		11/03/23 23:48	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/03/23 23:48	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		11/03/23 23:48	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/03/23 23:48	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		11/03/23 23:48	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/03/23 23:48	156-59-2	
cis-1,3-Dichloropropene	**<0.24**	ug/L	1.0	0.24	1		11/03/23 23:48	10061-01-5	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		11/03/23 23:48	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		11/03/23 23:48	95-47-6	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/03/23 23:48	156-60-5	
trans-1,3-Dichloropropene	**<0.27**	ug/L	1.0	0.27	1		11/03/23 23:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/03/23 23:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/03/23 23:48	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/03/23 23:48	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**1.2J**	mg/L	2.0	0.59	1		10/31/23 23:29	16887-00-6	
Nitrate as N	**<0.044**	mg/L	0.15	0.044	1		10/31/23 23:29	14797-55-8	
Nitrite as N	**<0.021**	mg/L	0.10	0.021	1		10/31/23 23:29	14797-65-0	
Sulfate	**23.0**	mg/L	2.0	0.44	1		10/31/23 23:29	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**236**	mg/L	25.0	7.4	1		11/08/23 07:39		
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
	Pace Analytical Services - Green Bay								
Cyanide	**<0.0069**	mg/L	0.023	0.0069	1	11/07/23 10:30	11/07/23 14:39	57-12-5	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	11/07/23 20:36	11/08/23 01:36	7727-37-9	

REPORT OF LABORATORY ANALYSIS